The Undergraduate Catalog

2011 - 2012

CSU

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A Message from President Ronald M. Berkman

I welcome you to Cleveland State University at the most exciting and challenging time in our comparatively young history.

As CSU's new president, I came here to continue the growth and evolution of this expanding university – increasing its academic quality and reputation, building up research and philanthropy, growing and modernizing the physical campus, and playing a leadership role in the economic recovery of the city and the region. We are an urban university poised to have a transformational effect on the social, economic, cultural, and political life of the city, the region, and the state and most importantly, on the personal lives of thousands of students.

Urban affairs is in my blood. I love cities, and I love the energy that radiates from being part of the city. That is what has drawn me to Cleveland. I look forward to CSU being a major player in driving the renewal of the city's urban core and collaborating with the area's health care powerhouses and our corporate-industrial, community, civic, and cultural partners. The fate of the nation is inextricably linked to the fate of its cities, and both are dependent on educated citizens and workers.

Cleveland is a diverse and rich learning laboratory. It is a major health care and biomedical center with diversified industrial, service, and cultural sectors. The goal of engaged learning is to build bridges between the University and the city that will provide environments for students to apply and expand what they are learning in classrooms and laboratories.

The future of Cleveland State University is bright and focused. Responding to the Ohio Board of Regents' 10-year Strategic Plan for Higher Education and the establishment of the University System of Ohio, we have adopted centers of excellence that capitalize on our unique strengths and will shape our future and the future of this region.

With Cleveland among the finest and most advanced medical regions in the world with the Cleveland Clinic and University Hospitals, we expect a significant expansion of our collaborative research, teaching, and training programs with these institutions. Our nursing and allied health programs are expanding to produce the work force needed to sustain the continued growth of the health care sector in Cleveland and to ensure excellent care for Northeast Ohio citizens. And we continue to make exciting advancements leading to the diagnosis and treatment of many of the most common diseases found around the world, including cardiovascular disease, neurological disease, infectious disease, and cancer. The Colleges of Business and Engineering are partners in our research and training in health care and life sciences.

We take pride in the breadth and depth of our expertise and experience in sustainable communities. Our Center for the Next Generation Economy fosters a competitive economic climate in the state by improving entrepreneurship and business development, and strengthening the connections between business strategy and management and the economics of regional development.

And year by year, we are becoming a more research-focused institution. Expanding the research dollars our university attracts will bring hundreds of millions of dollars into the community along with the advances and prestige associated with successful research. As an added bonus, there is no doubt that a successful research program is a strong attraction for new distinguished faculty members, who typically are catalysts for their own research dollars.

The higher education marketplace is highly competitive, and students in Northeast Ohio in particular have a wealth of opportunities and choices. One of our highest priorities must continue to be the recruitment of more and better students and fund raising from every sector. At CSU, the majority of our students are dependent on financial aid. We are the only mobility engine for many of them who would not otherwise have a chance to go to college. These deserving students desperately need our help. And beyond that, the state desperately needs these students to be able to remain in college, get their degrees, and get to work in Ohio, helping to make it economically vibrant again.

We have historically done a fine job at the fundamental mission of providing students a quality education and preparing future leaders. Cleveland and Northeast Ohio abound in business, civic, and judicial leaders who are Cleveland State alumni. We will make sure that we never lose sight of our mission as an urban institution to produce the talent and the employees that form the backbone of the region's economy.

I have spent my entire professional life preparing for this opportunity to lead Cleveland State University. I encourage you to experience with me the CSU of today, with all of its fine buildings, exceptional academic programs, competitive NCAA athletics, and campus life in the heart of a major metropolitan area. More than 100,000 alumni, 300-plus corporate partners and supporters, 550 of the finest faculty, and 16,400 students cannot be wrong - Cleveland State is a very special University and I am proud to be a part of it.

Ronald M. Berkman
President

Cleveland State Highlights

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Monte Ahuja College of Business

- Out of more than 2,000 business programs in the country, the Monte Ahuja College is among a select group of approximately 600 business schools that are accredited by AACSB International, the world's most respected professional accreditation in management education. The Monte Ahuja College is also one of 170 schools that hold specialized AACSB accreditation for its accounting programs.
- With more than 3,700 students, the Monte Ahuja College of Business is one of the largest colleges on campus and ranks among the largest business schools in the U.S.
- The Monte Ahuja College is housed in Monte Ahuja Hall, a beautiful six-story building which includes faculty and department offices, classrooms, seminar rooms, and computer classrooms and laboratories with more than 125 computers that are continuously upgraded. State-of-the-art software includes CASE tools for systems analysis and design, SAP for enterprise resource planning and data mining, and SAS/SPSS for data-analysis.
- Our business students are award-winners: the CSU chapters of SHRM (Society for Human Resource Management) and the American Marketing Association have won numerous awards in recent national and regional competitions. Beta Alpha Psi, the honor society for accountants, sponsors "Meet the Accountants Night" and other professional events on campus.
- Accounting graduates have been well-placed in area corporations and accounting firms, with many holding senior positions.
- The Student Managed Investment Fund (SMIF) allows finance students to learn about investments and portfolio management in the real world by investing real money in the financial markets. In March 2010, the SMIF won the first place award for growth strategy at the R.I.S.E. Forum, a prestigious annual conference focusing on investment education.
- Bachelor's degree programs in business (B.B.A.) and computer and information sciences (B.S.C.I.S.) are offered for day, evening, and weekend students. B.B.A. students can specialize with majors in:
    - Accounting
    - Business Administration
    - Business Economics
    - Finance
    - Information Systems
    - International Business
    - Management and Labor Relations
    - Marketing
    - Operations and Supply Chain Management.
- B.S.C.I.S. students may major in CIS (with its focus on applied areas of computer and information science) or CSC (which emphasizes theoretical, quantitative and technical knowledge).

- The Monte Ahuja College partners actively with area community colleges in assisting transfer students to complete their baccaulaurete degrees at CSU.
- Monte Ahuja College has one of the largest MBA programs in Ohio, with courses offered weekdays, evenings, and weekends at Cleveland State's downtown campus, at the West Center extended campus in Westlake, Ohio, and at two corporate sites in Greater Cleveland.
- Specialized graduate degree programs include the Doctor of Business Administration, Master of Accountancy, Master of Labor Relations and Human Resources, Master of Computer and Information Science, and the MBA in Health Care Administration.
- Monte Ahuja College business alumni include more than 100 CEOs/presidents and countless vice presidents, senior-level executives, directors, controllers, chief financial officers, business owners, and senior partners. Monte Ahuja College alumni currently hold leading positions at such companies as Lubrizol, Parker Hannifin, Key Bank, Cleveland Clinic, Diebold, Sherwin Williams, Victory Capital Management, and PNCWealth Management.The Monte Ahuja College faculty features distinguished scholars and nationally recognized experts in various business and technical fields. About 90 percent of full-time faculty members have earned doctorates or other terminal degrees in their fields of specialization, many from the world's leading graduate business schools. In addition, faculty are actively involved in the community -- as business consultants, board members, members of professional organizations, and community leaders -- bringing a diverse range of practical experiences to the courses they teach.

College of Education and Human Services

- The College of Education and Human Services offers 22 different undergraduate major or minor programs which lead to teacher licensure in Ohio. The college also offers undergraduate human services majors in a number of areas, including sport management, and exercise/fitness specialist. Graduate-degree offerings include master's degrees in Curriculum and Instruction, School and Community Agency Counseling, Educational Administration, Adult Learning and Development, Community Health Education, Sport Management, and Exercise Science; Educational Specialist degrees in Administration and Counseling; and a doctoral degree in Urban Education.
- The State of Ohio's Department of Education has approved and the National Council for Accreditation of Teacher Education (NCATE) has fully accredited the college's professional educator preparation programs.
- The School and Community Agency Counseling Programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).
- The doctoral specialization in Counseling Psychology has just received accreditation by the American Psychological Association (APA).
- The college's vision for teacher preparation mirrors that of the Ohio Department of Education: To recruit the best and brightest into the teaching profession, to target recruitment to address high-need areas, to develop a diverse teaching force, and to graduate fully competent teachers who are responsive, reflective professionals who value collaboration and partnership.
- In March 2010, the College moved into a brand new building—Julka Hall. Named for Bill Julka to honor his $6 million contribution to the University and officially dedicated in October 2010, Julka Hall serves as the eastern gateway to the campus and was designed for maximum collaboration, community, and transparency. The building features a three story atrium, state of the art technology, special nursing teaching classrooms, math and science labs, a Community Learning Center for tutoring Cleveland children, and valuable "collaboration spaces" spread throughout.
- April 2008 saw the historic opening of the Confucius Institute. CSU partners with Capital University in Beijing and the Office of Chinese Language Council International (Hanban) to promote the use of the Chinese language and appreciation of Chinese culture as well as economic development in Ohio. Central to the work of the Institute is to prepare teachers of Chinese for public and private schools. The Institute also coordinates short and extended exchanges of faculty, teachers and students between China and Ohio.The Center for Urban Education opened in 2010. It serves as an institutional home for CSU faculty and students who conduct research and publish in fields of study and practice related to urban education. The Center carries out four key functions that embody its core mission and activities:

(1) serves as the research and development arm of the Campus International School, (2) conducts and disseminates interdisciplinary research and best practices in urban education, (3) provides grant writing and administrative assistance in the pursuit of extra-mural funding, and (4) incubates new programs in the preparation of urban teachers and related professionals who work in urban schools.

- The Center for Educational Leadership was established in 2008 to develop and sustain inspired leaders for today's school. The center creates and provides relevant and innovative leadership development and licensure programs for educators in the Cleveland Metropolitan area, the State of Ohio, and across the country.
- Under its auspices, the college operates the Greater Cleveland Education Development Center to provide for the continuing education of teachers throughout the area.
- The college leads Ohio in the number of master's degrees awarded to African Americans and the number of students who have completed adolescent/young adult licensure programs in mathematics and science.
- The Master of Urban Secondary Teaching (MUST) received the Award for Exemplary Professional Development School Achievement from the National Association of Professional Development Schools. (MUST) is an innovative 13-month, selective, field-based graduate teacher education program that prepares secondary teachers committed to teaching mathematics, science, social studies, and English in urban schools.
- College faculty have collaborated with the Cleveland Metropolitan School District to help open the Campus International School, an on-campus alternative school program recognized for high standards and academic rigor. The school incorporates the International Baccalaureate curriculum that focuses on global perspectives and foreign languages, such as Chinese. The school is fully enrolled in 2010-2011 with 120 students in grades K-2.
- The math and science education faculty launched the new CSUTeach program in 2010-2011. This program allows undergraduate mathematics and science majors to earn a mathematics and/or science degree and teacher licensure in four years. The program streamlines curriculum, provides students the opportunity to explore teaching while taking content courses, and offers early immersion into math and science classrooms. Many CSUTeach students receive scholarship support through grants from the National Science Foundation, Choose Ohio First, and the Robert Noyce Foundation.
- With active grants in excess of $5.8 million in 2009-2010, the college has maintained its lead at CSU for attracting external funding to support centers of excellence in mathematics/science/technology, literacy, school leadership, urban education, and professional development. These centers along with approximately 50 partnerships provide opportunities for students to work with faculty on field-based research and collaborative initiatives with local schools, community agencies, arts organizations, and health care facilities. In other areas of scholarly productivity, faculty published thirty-eight books, 470 research articles, and 114 book chapters over the past seven years.
- Since 2003, six education faculty members have received Fulbright Scholar Awards in recognition of their globally acknowledged accomplishments in teaching, research, and service. They are Dr. Maria Angelova, Dr. Joshua Bagaka's, Dr. Mike Loovis, Dr. Ralph Mawdsley, Dr. Roland Pourdavood, and Dr. Lih-Ching Chen Wang.
- As the result of a $1 million grant from the Ohio Board of Regents, the college has instituted the Northeast Ohio Center of Excellence for Mathematics and Science Teacher Education. This center aims to improve the teaching and learning of mathematics and science in schools and universities through collaboration among four higher education institutions, a variety of K-12 school districts, professional development centers, and the Ohio Resource Center.
- The CSU Highly Qualified Intervention Specialist Project funded by the U.S. Department of Education, Office of Special Education Programs, is designed to enhance the university's Mild/Moderate teacher preparation program. In addition to addressing issues such as highly qualified teacher status and curriculum alignment, a significant focus for this project is the development of student supports (e.g., orientation advising, peer mentoring program, licensure exam preparation materials, etc.) that are designed to assist teacher candidates with their success as a Mild/Moderate program major. The college uses an electronic portfolio system developed by Cleveland State to provide for continuous assessment and collection of performance data; the e-Portfolio Systems is also used by students to generate employment portfolios that showcase their work.

- The college has an upper-division program for honors students in education.

Fenn College of Engineering

- Fenn Academy— This consortium between Fenn College of Engineering and a group of high schools and corporations will boost regional economic development and encourage 9th through 12th grade students to pursue careers in engineering and technology. The academy will provide educational activities, technical support and, when possible, financial means to students throughout their entire educational experience, starting in high school and progressing through their college years. The academy also will provide high school teachers with state-of-the-art technologies, training and access to laboratory facilities.

  Lakewood High School, the West Shore Career Technical District and Middough Consulting Inc. have signed on as academy partners, with other schools and businesses expected to soon follow. Ron Ledin, Middough's president and CEO, is chairman of Fenn Academy's Oversight Board. He is a 1968 alumnus with a bachelor's degree in mechanical engineering. Dr. Bahman Ghorashi is the director of Fenn Academy.

  Fenn Scholars, the students selected for the academy, will study a pre-engineering curriculum that will provide them with the academic and technical competencies required to be automatically admitted to the Fenn College of Engineering when they graduate from high school.

  Fenn Academy's rigorous academic study, scholarships, co-op opportunities, internships and job-shadowing opportunities will produce a highly educated work force in such emerging fields as fuel cell and biomedical technologies. Fenn Academy will provide Northeast Ohio with engineering professionals who will be motivated to stay in the region when they graduate, providing the skills and knowledge to help area employers compete in the global market. The first class of students began studies in the Fenn Academy in Fall 2006.

- Cleveland State Named University Transportation Center (UTC) – Cleveland State's UTC will focus exclusively on the critical issue of work zone safety and has strong support from the Ohio Department of Transportation, industry organizations, general contractors, highway construction firms and unions.

  Housed in our Fenn College of Engineering, the UTC will be a key player in helping the heavy highway construction industry increase safety without sacrificing efficiency within construction work zones across the nation and will be a vital regional source of transportation engineering talent for the heavy highway industry.

- Dr. Charles Alexander, professor of Electrical and Computer Engineering, saw the second edition of his textbook *Fundamentals of Electric Circuits*, with co-author Matthew N.O. Sadiku, published by McGraw Hill in 2004. The text has been published in English, Korean, Chinese, Italian, Spanish, and Portuguese and has sold over 10,000 copies worldwide. It is intended for use in the introductory circuit analysis or circuit theory course taught in electrical engineering or electrical engineering technology programs.

- The Donald Bently and Agnes Muszynska Endowed Chair in Rotating Machinery was created with a $1 million gift from Dr. Donald E. Bently, P.E., a globally recognized authority on rotor dynamics and vibration monitoring and diagnostics, and Agnes Muszynska, Ph.D., an internationally renowned scientist in the area of machinery dynamics. The Bently and Muszynska Chair has been awarded to Dr. Jerzy T. Sawicki, professor of Mechanical Engineering.

- Mrs. Betty Gordon committed a $ 1million gift to create the Betty L. Gordon Alternative Energy Reseach Endowment and the Betty L. Gordon Endowed Distinguished Professorship in the Fenn College of Engineering. Dr. Majid Rashidi has been named the Betty L. Gordon Endowed Distinguished Professor

for his work in the wind energy field. The Gordon Endowments will help advance Dr. Rashidi's research and design in wind turbines.

- The course ESC 102 entitled Technical Writing and Professional Communication has been recently added as an ESC course. This is an approved substitute course for College Writing II (ENG 102). In ESC 102, the students will learn writing and communication skills that will better serve them in their academic studies and later in their engineering careers.

- Dr. Bahman Ghorashi, Dean of Engineering, has recently published a book to help students succeed in life. As a scientist and faculty member, Professor Ghorashi spends much of his time researching and teaching such topics as laser anemometry, agile manufacturing and fluid mechanics. But as an individual who is passionate about helping young people succeed in life, he has written a self-help book that he hopes will become a must-read for teens and young adults. *How to Become an Exceptionally Successful Young Person: A Guide to Early Planning and a Roadmap to Success PLUS How to Face Worry, Defeat, and Uncertainty and Rise Above Them All* was published by Universe Inc. in Fall 2004.

- Dr. Paul Lin, Associate Dean of Engineering for Academic Affairs and Professor of Mechanical Engineering, received a prestigious Leadership Award from the Cleveland Engineering Society (CES). The award was presented to him in the annual CES meeting on June 17, 2009.

- PPG Industries awards $5.8 million in patents to Cleveland State University. PPG and CSU's collaboration in engineering technology afford unique research and learning opportunities for Cleveland State faculty and students. PPG's donation includes more than 19 U.S. and worldwide patents and know-how related to the highly regarded "P10"process. This technology, developed over the past two decades, has demonstrated superior, energy-efficient glass processing that can be applied to all glass products including glass fiber, containers, and tableware and has potential impact on a wide range of products and processes beyond the glass industry. The innovative science behind the donated technology has the potential to transform the glass industry dramatically by reducing the energy consumed in forming glass into products and revitalizing the U.S. and particularly Ohio's, glass industry, which provides jobs for over 10,000 highly trained employees and contributes over $7 billion in sales annually.

- The Fenn College of Engineering is proud to have nine Professional Society Fellows. Fellow is the highest honor in recognizing achievements and contributions to a profession. The nine fellows are: Dr. Charles Alexander, Fellow of Institute of Electrical and Electronics Engineers (IEEE); Dr. Paul Bosela, Fellow of American Society of Civil Engineering (ASCE), Dr. Nobert Delatte, Fellow of American Concrete Institute (ACI); Dr. Stephen Duffy, Fellow of American Society of Civil Engineering (ASCE); Dr. Yung-Tse Hung, Fellow of American Society of Civil Engineering (ASCE); Dr. Mounir Ibrahim, Fellow of American Society of Mechanical Engineering (ASME); Dr. Paul Lin, Fellow of American Society of Mechanical Engineering (ASME); Dr. Jerzy Sawicki, Fellow of American Society of Mechanical Engineering (ASME); Dr. Surendra Tewari, Fellow of American Society for Metals (ASM).

- The Fenn College of Engineering of CSU is the lead institution in receiving funds ($474,700) for a project entitled Engineering across the Pipelines under the Choose Ohio First Scholarship program, the state's premier model for recruiting and retaining talented Ohio residents as students in science, technology, engineering, mathematics and medicine (STEM).

- In order to develop a closer partnership between the Fenn College of Engineering and industry, the College has recently formed Fenn Research and Development Institute (FRDI) which is structured to be a one-stop engineering R&D support entity involving expert faculty, engaged students, dedicated staff and physical facilities. The Institute has four major units, namely:

(1) Industry Joint Research Projects

(2) Service Learning

(3) Industry Services and Contracts

(4) Industry Outreach

College of Liberal Arts and Social Sciences

- The college has over 140 faculty members in the arts, humanities, and social sciences; almost all hold a Ph.D., M.F.A., or other terminal degree in their field. Several faculty have been Fulbright, Guggenheim or Woodrow Wilson Fellows. As active researchers, CLASS faculty publish an average of 15 books and dozens of articles and book chapters each year.
- Faculty have received awards from the Council on Graduate Schools, the National Endowment for the Humanities, IREX, the U.S. Department of Education, the Ohio Arts Council, the Ohio Humanities Council, the Cleveland Arts Prize, the Rome Prize, and other external entities.
- The college is home or host to a number of research and cultural centers, including:
    - *Art Gallery*: presents exhibitions of student and faculty art, and special exhibits of artists who are recognized internationally and nationally.
    - *Black Studies Program*: includes the African American Cultural Center and the Jazz Heritage Orchestra.
    - *Bioethics Center* and certificate program: maintains a collaboration with the Bio-Ethics Network of Ohio (BENO).
    - The *Butler Jones Endowed Lecture Series* presents contemporary sociological scholarship on race and ethnicity. An annual student scholarship is also awarded.
    - *Center for Arts and Innovation* with foci on dance and movement, creative words and music, and creative thought.
    - *The Center for Public History and Digital Humanities* is focused on bringing together individuals and scholarship in history, education, library and information sciences and technology in order to better serve the public.
    - *The Center for Slovenian Studies*: supports Slovenian language study and cultural outreach for the local Slovenian community.
    - *The Cleveland Arts Education Consortium* promotes and strengthens art education in Northeast Ohio and advocates on behalf of arts learning.
    - *Cleveland Contemporary Players*: an artist in residence program within the Music Department dedicated to performance of new works by living composers.
    - *The Cleveland Stater*: campus newspaper produced by journalism students in the School of Communication.
    - *Communication Research Center* in the School of Communication: to serve area businesses and organizations, featuring focus groups and a computer-aided telephone interview (CATI) system.
    - *Criminology Research Center*: conducts research and data analysis in order to provide public and government agencies with sound fact-based knowledge that can be used to inform public policy.
    - *Crooked River*, an electronic journal on social and urban history featuring articles by faculty, students, and professionals in Northeast Ohio.
    - *Cultural Crossings* interdisciplinary lecture series: four lectures a year by nationally known scholars or artists.
    - *Imagination:* a yearly summer writers' conference.
    - *Indian Scholar Program*: sponsors a visiting scholar from India in alternate years.
    - *Poetry Center*: nationally recognized press that publishes new books by poets.
    - *Social History and the City* project in the History Department: includes a Web-based Ohio Local History Archive, *Crooked River* electronic journal, and the Thomas F. Campbell annual seminar on the city.
    - *Theater*: public productions in conjunction with the Department of Theatre and Dance.

College of Sciences and Health Professions

- Over 40 undergraduate programs leading to degrees are available, including various specialization and track options.
- More than 100 full-time faculty teach in the college; almost all of them hold a Ph.D. degree.
- Faculty are authors of internationally acclaimed textbooks and research papers, including the most successful physics textbook ever written.
- Faculty have received nationally competitive awards from the National Science Foundation, the National Institutes of Health, and the American Heart Association, among many others, for their innovative research. Faculty have also been awarded patents.
- Faculty members have been recognized as Fulbright and Carnegie Scholars.
- Students participate in research, study, and practice activities at Cleveland State, as well as at such institutions as the Cleveland Clinic's Lerner Research Institute; the Cuyahoga Valley National Park; and an array of local service, education, and health agencies.
- Individual academic advising assistance is provided by professional advisers in the College of Sciences and Health Professions Advising Center as well as by faculty members within the departments.
- Cleveland State pre-pharmacy undergraduate and post-baccalaureate students enjoy preferential admissions to the Doctor of Pharmacy program at the Northeastern Ohio Universities College of Pharmacy (NEOUCOP), with NEOUCOP reserving a set number of seats in each entering class for qualified Cleveland State students.
- Cleveland State pre-medicine undergraduate and post-baccalaureate students have the opportunity to participate in an MD partnership with the Northeastern Ohio Universities College of Medicine (NEOUCOM), focusing on urban health initiatives.
- A 3 + 4 articulation agreement exists with the Ohio College of Podiatric Medicine. This program consists of three years of pre-professional study at Cleveland State, and for qualifying students, four years of study at Ohio College of Podiatric Medicine (OCPM) to receive a doctorate in Podiatric Medicine from OCPM. Students may apply for a B.S. in Biology or Health Sciences upon completion of required B.S. course work during their first year(s) of study at OCPM.
- Health Science, Speech and Hearing, and Psychology undergraduate programs prepare students excellently for entering highly reputable Cleveland State graduate programs. High passing rates are reported for the licensure examinations in Occupational Therapy, Physical Therapy, Speech and Hearing, and School Psychology. Evening majors are offered in Biology, Chemistry, Physics, and Psychology. Selected evening classes are also offered by other departments.
- Co-op and internship opportunities are available.
- Undergraduate research opportunities with Cleveland State faculty are available, and students have the opportunity to present research at scientific conferences.
- Most departments have an honors program.

Maxine Goodman Levin College of Urban Affairs

- The college ranks among the top 10 urban affairs schools in the United States.
- *U.S. News and World Report*'s 1998, 2002, 2005, and 2008 editions of "America's Best Graduate Schools" ranked the MPA program specialty, city management and urban policy, second in the nation.
- Many of the outstanding faculty have national and international reputations for scholarship and community engagement.
- Ninety-seven percent of the full-time faculty have doctorate degrees.
- Alumni of the college in public management include two mayors of Cleveland, several Cleveland City Council members, numerous suburban mayors, city managers, planning directors, police and fire chiefs/officers, and emergency management personnel.
- Alumni currently hold executive or leadership positions in public, nonprofit, and private sector organizations such as the Greater Cleveland Regional Transit Authority, Cleveland Hopkins Airport, Cleveland Metroparks, the Ohio Environmental Protection Agency, Key Bank, Ernst & Young,

Progressive Insurance, the Cleveland Clinic, University Circle, Inc., and many community development agencies.

- The college's degree and certificate programs attract students of many backgrounds and age groups who are passionate about revitalizing their communities. Urban Affairs graduates are making a difference in their community, the region, the state of Ohio, and the nation.
- Hands-on learning that engages students in the community is an outstanding feature of the majors at the Levin College.
- In required internships, students work to find solutions to real problems faced by local agencies and governments. Internships provide students with work experience in their field of study and often lead to placement upon graduation.
- Many online courses are offered, as well as interactive video distance learning courses. Traditional classes are offered at convenient times during the day, evening, and weekend at CSU's downtown campus and at Lakeland Community College and Lorain County Community College.
- The Levin College of Urban Affairs confers the Bachelor of Arts degree with major programs in:
    - Urban Studies
    - Nonprofit Administration
    - Public Safety Management
    - Environmental Studies
    - Organizational Leadership
- The college offers three five-year Bachelor's to Master's programs:
    - BA/MPA in Public Administration
    - BA/MA in Environmental Studies
    - BA/MNAL in Nonprofit Administration and Leadership
- Students in any discipline may elect to pursue a minor in Sustainable Urban Development, Environmental Studies, Urban Studies, or Nonprofit Administration.
- The college offers undergraduate certificate programs in Public Management, Sustainable Urban Development, and Geographic Information Systems.
- The college offers Cleveland State's only credit-for-life-experience opportunity through its Accreditation and Assessment of Prior Learning Experience (AAPLE) program. Students receive undergraduate academic credit for substantial life experience that is related to urban affairs and is documented through a portfolio process.
- Degree Completion Programs are available for graduates of community colleges with degrees in law enforcement, fire science, emergency management, paralegal studies, nursing, public administration, environmental health and safety, and human services to complete their Bachelor of Arts degree through articulation agreements between their college and the Levin College. These programs are also open to those who have some college credits or have received credit through the AAPLE program.
- Learning Communities, a cluster of courses focusing on a particular theme, are available in the Levin College. The courses enroll a common cohort of 25 students, providing highly motivated students the opportunity to complete several introductory courses in a rich and intellectually stimulating way. They promote faculty engagement with beginning students and advance students' understanding of issues that cross subject boundaries.
- The college's Office of Student Services provides academic advising, coordination of internships, graduate assistantships, and scholarship awards.
- Career development services are offered to current students and alumni through mentoring programs, resume review, and job referrals.
- The Levin College confers the following graduate degrees:
    - Ph.D. in Urban Studies and Public Affairs
    - M.A. in Environmental Studies
    - Master of Public Administration (MPA)
    - Master of Nonprofit Administration and Leadership (MNAL)
    - Master of Urban Planning, Design, and Development (MUPDD)
    - M.S. in Urban Studies
    - Dual degrees in conjunction with the College of Law:

        - JD/MPA
        - JD/MUPDD
        - JD/MA (ENV)

- The Master of Public Administration program is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA).
- The Master of Urban Planning, Design, and Development (MUPDD) program is accredited by the Planning Accreditation Board.
- The Urban Center
    - Research areas include:
        - Center for Community Planning and Development
        - Center for Economic Development
        - Center for Public Management
        - Great Lakes Environmental Finance Center (GLEFC)
        - Center for Nonprofit Policy and Practice
    - Demographic and Geographic Data and Analysis
        - Northern Ohio Data and Information Services (NODIS)
    - Professional and Leadership Development:
        - Center for Leadership Development
        - Ohio Center for the Advancement of Women in Public Service
- The Levin College Forum is a focal point and catalyst for thoughtful public debate, innovative thinking, new ideas, and timely action addressing the critical urban issues that impact Northeast Ohio, the state, and the nation. All Forum programs are open to the community and CSU students, faculty and staff. The work of the forum is based on the premise that an informed and engaged citizenry is a valuable asset for the region's future growth and prosperity. In 2005, the Forum was recognized by Northern Ohio Live as "a springboard for economic and social progress throughout the region." Issues ranging from affordable housing to sustainable development are presented at the forum.
- Glickman-Miller Hall, completed in 2000, is home to the college. Forum programs meet in the spacious Roberta Steinbacher atrium, which is equipped to broadcast television, satellite, and two-way interactive programs. Within the building are technology-equipped classrooms and seminar rooms, a distance-learning room, computer labs, and an interactive media lab.
- The Thomas F. Campbell, Ph.D. Exhibition Gallery houses special exhibits prepared by the college to honor local artists.

Cleveland-Marshall College of Law

- Founded 1897
- The first law school in Ohio to admit women
- One of the first law schools in Ohio to admit minorities
- Accredited by the American Bar Association since 1957
- Member of the Association of American Law Schools since 1970
- Forty-seven full-time faculty, including legal writing and clinical professors
- Four named professorships, including the Leon M. and Gloria Plevin Endowed Professorship, the Charles R. Emrick Jr. – Calfee, Halter & Griswold Endowed Professorship, the James A. Thomas Distinguished Professorship, and the Joseph C. Hostetler – Baker & Hostetler Chair in Law
- Second highest pass rate among Ohio law schools for first-time takers of the July 2007 Ohio Bar Exam
- Two student-edited journals: *The Cleveland State Law Review* and *The Journal of Law and Health*
- ABA prize-winning student newspaper: *The Gavel*
- Five clinics: Community Health Advocacy Clinic, Employment Law Clinic, Environmental Law and Policy Clinic, Fair Housing Clinic, and Urban Development Law Clinic
- Full- and part-time degree programs leading to J.D. and LL.M. degrees; joint degree programs leading to J.D./M.B.A., J.D./M.P.A., J.D./M.A.E.S., J.D./M.S.E.S., and J.D./M.U.P.D.D.
- Concentrations in Business Law, Civil Litigation and Dispute Resolution, Criminal Law, Employment and Labor Law, and International and Comparative Law

- Externships including state and federal Judicial Externships, U.S. Attorney Externship, Public Interest Externships with the Federal Public Defender, Cuyahoga County Public Defender and Cuyahoga County Prosecutor, among other placements, and student-designed Independent Externships.
- Summer Institute for Law Students in St. Petersburg, Russia
- Lecture series including the Cleveland-Marshall Fund Visiting Scholars Program, the Criminal Justice Forum, the Employment and Labor Law Speakers Series, the Forrest B. Weinberg Memorial Lecture Series, and the Baker-Hostetler Visiting Scholar Lectures
- Pro Bono and Community Service Programs
- Newly renovated and expanded building, including state-of-the-art Law Library, housing the state's second largest law collection
- Fourteen "high-tech" classrooms, including the Joseph W. Bartunek III Moot Court Room
- Over 20 student organizations, serving the interests of a diverse and engaged student body

Cleveland State University
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ACADEMIC CALENDAR

Fall Semester	2009	2010	2011	2012
First Saturday Class	Aug-22	Aug-28	Aug-27	Aug-25
First Weekday Class	Aug-24	Aug-30	Aug-29	Aug-27
Last Day to Add	Aug-28	Sep-3	Sep-2	Aug-31
Labor Day (University Holiday)	Sep-7	Sep-6	Sep-5	Sep-3
Last Day to Drop	Sep-4	Sep-10	Sep-9	Sep-7
Columbus Day (University Holiday)	Oct-12	Oct-11	Oct-10	Oct-8
Midterm Grades	Oct 12-18	Oct 18-24	Oct 10-16	Oct 15-21
Last Day to Withdraw	Oct-30	Nov-5	Nov-4	Nov-2
Veterans Day (no classes - offices open)	Nov-11	Nov-11	Nov-11	Nov-12
Thanksgiving Recess*	Nov 26-29	Nov 25-28	Nov 24-27	Nov 22-25
Last Day of Classes	Dec-4	Dec-10	Dec-9	Dec-7
Final Exams	Dec 7-12	Dec 13-18	Dec 12-17	Dec 10-15
COMMENCEMENT	Dec-13	Dec-19	Dec-18	Dec-16
Fall Incomplete Deadline	May-7	May-6	May-4	May-3

Spring Semester	2010	2011	2012	2013
First Saturday Class	Jan-16	Jan-15	Jan-14	Jan-12
Martin Luther King Day (University Holiday)	Jan-18	Jan-17	Jan-16	Jan-21
First Weekday Class	Jan-19	Jan-18	Jan-17	Jan-14
Last Day to Add	Jan-22	Jan-21	Jan-20	Jan-18
Last Day to Drop	Jan-29	Jan-28	Jan-27	Jan-25
President's Day (University Holiday)	Feb-15	Feb-21	Feb-20	Feb-18
Midterm Grades	Mar 8-14	Mar 7-13	Mar 5-11	Mar 4-10
Spring Recess	Mar 14-21	Mar 13-20	Mar 11-18	Mar 10-17
Classes Resume	Mar-22	Mar-21	Mar-19	Mar-18
Last Day to Withdraw	Apr-2	Apr-1	Mar-30	Mar-29
Last Day of Classes	May-7	May-6	May-4	May-3
Final Exams	May 8-14	May 7-13	May 5-11	May 4-10
COMMENCEMENT	May-15	May-14	May-12	May-11
Spring Incomplete Deadline	Sep-10	Sep-9	Sep-7	Sep-6

Cleveland State University
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ACADEMIC CALENDAR

Summer Semester	2010	2011	2012	2013
First Saturday Class	May-22	May-21	May-19	May-18
First Six Week Summer Session				
First Weekday Class	May-24	May-23	May-21	May-20
Memorial Day (University Holiday)	May-31	May-30	May-28	May-27
Last Day of Classes	Jul-2	Jul-1	Jun-29	Jun-28
July 4th (University Holiday)*				
Final Exams- Held on the last scheduled meeting day for the course unless otherwise noted by the instructor				
Second Six Week Summer Session				
First Weekday Class	Jul-6	Jul-5	Jul-2	Jul-1
July 4th (University Holiday)*	Jul-5	Jul-4	Jul-4	Jul-4
Last Day of Classes	Aug-13	Aug-12	Aug-10	Aug-9
Final Exams- Held on the last scheduled meeting day for the course unless otherwise noted by the instructor				
Eight Week Summer Session				
First Weekday Class	May-22	May-23	May-21	May-20
Last Day of Classes	Jul-16	Jul-15	Jul-13	Jul-12
Final Exams- Held on the last scheduled meeting day for the course unless otherwise noted by the instructor				
Ten Week Summer Session				
First Weekday Class	May-22	May-23	May-21	May-20
Last Day of Classes	Jul-30	Jul-29	Jul-27	Jul-26
Final Exams- Held on the last scheduled meeting day for the course unless otherwise noted by the instructor				
Twelve Week Summer Session				
First Weekday Class	May-22	May-23	May-21	May-20
Last Day of Classes	Aug-13	Aug-12	Aug-10	Aug-9
Final Exams- Held on the last scheduled meeting day for the course unless otherwise noted by the instructor				
Summer Incomplete Deadline	Dec-10	Dec-9	Dec-7	Dec-6

*The only time Saturday classes are not held in
Thanksgiving Recess, unless an actual holiday

The University is closed on University Holidays unless otherwise noted above.

About the University

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- Alumni
- CSU Foundation, Inc.
- Information Services and Technology
- Academic Assessment
- Smoke-Free Environment

Introduction

Established as a state-assisted university in 1964, Cleveland State University assumed a tradition for excellence when it adopted the buildings, faculty, staff, and programs of Fenn College, a private institution of 2,500 students. In 1969, the Cleveland-Marshall College of Law became part of Cleveland State University.

A young university with a rich history, Cleveland State traces its historical roots to 1870, when the Cleveland YMCA began to offer free classes. The YMCA program was formalized in 1881, reorganized in 1906 as the Association Institute, and became the Cleveland School of Technology, later renamed Fenn College. The Cleveland-Marshall College of Law traces its origins to the founding of Cleveland Law School in 1897 as the first evening law school in the state and one of the first to admit women and minorities. In 1946, Cleveland Law School merged with the John Marshall School of Law, founded in 1916, to become Cleveland-Marshall Law School.

Throughout its long history, Cleveland State University and its predecessors pioneered work in developing student internships with business and industry, expanding an extensive co-op program, and attracting students who did not otherwise have access to higher education. Today, Cleveland State continues to grow by supporting the flexibility of its course offerings, programs, and affordable price with an excellent faculty and state-of-the-art facilities.

Mission Statement

Our mission is to encourage excellence, diversity, and engaged learning by providing a contemporary and accessible education in the arts, sciences, humanities and professions, and by conducting research, scholarship, and creative activity across these branches of knowledge. We endeavor to serve and engage the public and prepare our students to lead productive, responsible and satisfying lives in the region and global society.

Vision Statement

We will be recognized as a student-focused center of scholarly excellence that provides an accessible**,** engaged and exceptional education to all. We will be a place of opportunity for those who seek truth, strive

toward excellence and seek a better life for themselves and for their fellow citizens. As a leader in innovative collaboration — both internally and externally — with business, industry, government, educational institutions and the community, the University will be a critical force in the region's economic development. We will be at the forefront of moral, ethical, social, artistic and economic leadership for the future and embrace the vitality that comes with risk. We will be the strongest public university in the region and be known for our scholarship and diversity in service to students and to our community.

Eight Colleges

Courses of instruction leading to degrees are offered through Cleveland State's eight colleges. Undergraduate students enroll in one of the six undergraduate colleges:

- Monte Ahuja College of Business
  - Go to college website
  - Go to college catalog section
- College of Education and Human Services
  - Go to college website
  - Go to college catalog section
- Fenn College of Engineering
  - Go to college website
  - Go to college catalog section
- College of Liberal Arts and Social Sciences
  - Go to college website
  - Go to college catalog section
- College of Sciences and Health Professions
  - Go to college website
  - Go to college catalog section
- Maxine Goodman Levin College of Urban Affairs
  - Go to college website
  - Go to college catalog section
- School of Nursing
  - Go to college website
  - Go to college catalog section

Many degrees are available from these colleges in the evening.

Other programs available to undergraduates include: Black Studies, a selection of courses, available in various departments, which explores the Black experience in America; and the Women's Comprehensive Program, which offers special programming and counseling as well as course work.

Graduate work is offered through the College of Graduate Studies and the Cleveland-Marshall College of Law.

A Dynamic Campus Environment

The Cleveland State campus consists of 85 acres--the largest footprint in downtown Cleveland--with 40 buildings used for teaching, research, housing, administration, and recreation. Nineteen-story Rhodes Tower contains the University Library, classrooms, and many faculty offices and is a striking feature on the Cleveland skyline. University buildings feature a blend of old and new architectural styles, with historic landmark Mather Mansion sharing the stage with such modern facilities as Glickman-Miller Hall, home of the Maxine Goodman Levin College of Urban Affairs, and the 13,000-seat Bert L. and Iris S. Wolstein Center. The university boasts more than 200 student organizations, including 13 national fraternities and sororities and 17 NCAA Division I men’s and women’s varsity sports.

For Northeast Ohio to be economically competitive, it needs an educated work force. To make that education more convenient than ever before, Cleveland State has extended campuses in Westlake and Solon, where students have access to the same quality education as they have downtown.

The university is implementing a $500 million, multi-phase campus master plan. Already completed is a 130,000-square-foot recreation center; the renovation of historic Howe Mansion into Parker Hannifin Hall, the new home of the College of Graduate Studies; the new Parker Hannifin Administration Center; conversion of landmark Fenn Tower into student housing for 400-450 students; the $7.8 million law building renovation; and green spaces and a new parking garage. The new College of Education and Human Services building opened in spring 2010, followed by the spectacular new Student Center and 600-bed Euclid Commons residence suites, both on Euclid Avenue. Still to come is the North Campus Neighborhood development, 25 acres of mixed use market-rate housing, athletic fields, retail, and parking.

The Campus Master Plan rethinks the University's role in the city and how campus design and development can help stimulate private investment in downtown Cleveland. The Plan brings not only a bold new look to campus, but a bold new vision as well. It's all about new attitudes, a new outlook and a new Cleveland State University..

Campus411

Campus411 is the place to go for information and assistance with registration, academic records, student billing, and financial aid. Cleveland State's comprehensive approach to providing student service is based on a "one-stop" philosophy: provide a central office to serve the university community effectively and efficiently. Campus411 is located on the Main Classroom Plaza Level in room 116G. If you have questions or concerns or if you need information about student services, please visit Campus411.

Accreditations

NCA Accreditation: Cleveland State University is accredited by The Higher Learning Commission, a commission of the North Central Association of Colleges and Schools (NCA).

North Central Association of Colleges and Schools, Commission on Institutions of Higher Education, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, 800-621-7440.

In addition, individual Cleveland State degree programs hold the following professional accreditations:

Business Administration: The B.B.A., M.B.A., M.L.R.H.R., M.Acc. and D.B.A. programs of the Monte Ahuja College of Business are accredited by AACSB International, the Association to Advance Collegiate Schools of Business. The accounting programs at the undergraduate and graduate levels have earned separate accreditation from AACSB International.

Chemistry: The Chemistry Department's undergraduate curriculum is approved by the American Chemical Society. Its Clinical/Bioanalytical Chemistry Ph.D. program is accredited by the Commission on Accreditation in Clinical Chemistry (ComACC).

Counseling Center: The Counseling Center is accredited by the International Association of Counseling Services (IACS).

Education: Preparation programs offered by the College of Education and Human Services for prospective teachers and other school personnel are fully accredited by the National Council for the Accreditation of Teacher Education (NCATE) and approved by the Ohio Department of Education. The School Counseling and the Community Agency Counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Psychology Specialist (School Psychology) program is approved by the National Association of School Psychologists (NASP) and is included in the college's NCATE Accreditation. The Counseling Psychology specialization in the Ph.D. in Urban Education is accredited by the American Psychological Association (APA).

Engineering: The bachelor's degree programs in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700. The Bachelor of Science in Electronics Engineering Technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

Health and Wellness Service: The Health and Wellness Service is accredited by the Accreditation Association for Ambulatory Health Care.

Law: The College of Law is accredited by the American Bar Association and is a member of the Association of American Law Schools.

Music: The graduate and undergraduate Music Department curricula are accredited by the National Association of Schools of Music.

Nursing: The Undergraduate and Graduate Nursing curricula are fully accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, D.C. 20036, Phone: 202-887-6791. The Undergraduate Nursing curriculum has been fully approved by the Ohio Board of Nursing .

Occupational Therapy: The Master of Occupational Therapy program is accredited by the Accreditation Council for Occupational Therapy Education.

Physical Therapy: The Doctor of Physical Therapy program is accredited by the Commission on Accreditation in Physical Therapy Education.

Psychology: The Psychology Specialist (School Psychology) program is approved by the National Association of School Psychologists (NASP) and the National Council for the Accreditation of Teacher Education (NCATE).

Public Administration: The Master of Public Administration curriculum is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA).

Public Health: The Master of Public Health program is accredited by the Council on Education for Public Health (CEPH).

Social Work: The School of Social Work curriculum is fully accredited at the undergraduate and graduate levels by the Council on Social Work Education (CSWE).

Speech and Hearing: The Master of Arts in Speech Pathology and Audiology is accredited by the is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA).

Urban Planning, Design, and Development: The Master of Urban Planning, Design, and Development curriculum is accredited by the Planning Accreditation Board.

Affirmative Action Office

- Go to the Affirmative Action Office website

Cleveland State University is committed to the principles of equal employment and educational opportunity for all individuals and to the development and implementation of results-oriented procedures and programs to enhance access and opportunity for minorities and women, persons with disabilities, disabled veterans, Vietnam-era veterans and other protected veterans. The Board of Trustees has charged everyone associated with the university to support and implement these procedures and programs and to participate in achieving their maximum success.

The Affirmative Action Office is responsible for the administration of the university's equal opportunity and affirmative action policies and procedures. Through formal and informal procedures, the Affirmative Action Office is primarily responsible for the investigation and resolution of all complaints of unlawful discrimination including complaints of sexual, racial and any other types of unlawful harassment. The Affirmative Action Office seeks to achieve a fair and prompt resolution of discrimination complaints and takes appropriate action when necessary. The Affirmative Action Office works cooperatively with departments and units to provide training and information on unlawful discrimination and affirmative action issues to increase awareness of these issues throughout the university community and promote the full participation, well-being and equitable treatment of all students, faculty and staff, regardless of age, race, color, religion, national origin, ancestry, sex, sexual orientation, genetic information, disability, disabled veteran, Vietnam-era veteran or other protected veteran status.

Maria J. Codinach, J.D., is presently serving as the director of the Affirmative Action Office. The office is located in the Administration Center, Room 236. Phone 216-687-2223.

University Ombudsperson

The Ombudsperson is a confidential, informal, impartial and non-adversarial alternative for problem resolution. The Ombudsperson can help students deal with problems that they might have with any aspect of the University -- such academic issues, faculty conflicts, filing petitions, etc. The Ombudsperson can provide an informal means of problem resolution if there is a University-related dispute. The Ombudsperson is not empowered to change a decision, but through intervention or a clarification of matters, information may emerge to assist in the resolution of the dispute.

Due to the confidential, informal, and neutral function of the Ombudsperson, communication with the ombudsperson does not constitute notice to the University.

The Ombudsperson will maintain confidentiality of all communications that he or she receives. If the nature of the situation is highly sensitive, it is recommended that communications with the Ombudsperson be done by phone or in person. Regardless of the mode of contact, the student should be prepared to write a narrative of sufficient detail to clearly describe the issue under consideration and to assemble all documents that might have relevance to the examination and resolution of the concern.

Contact: Dr. Rama Gorla, Ombudsperson and Professor of Mechanical Engineering, Stillwell Hall, Room SH 243, Phone: 216-523-7276. E-mail: r.gorla@csuohio.edu.

Alumni

The university has more than 90,000 alumni, most of whom have remained in the Northeast Ohio area to establish careers, give back to the community, and raise their families. At nearly 1,000 businesses across the country, a Cleveland State graduate is at the helm as founder, chairman, CEO, president, or other top executive.

Graduates of Cleveland State University and its predecessor institutions are represented by the Cleveland State University Alumni Association and its chapters.

The Department of Alumni Affairs works closely with the Alumni Association to jointly develop professional, social, and educational programming that benefits the alumni body as well as the university community. The university magazine, Perspective, is published two times a year.

The goal of the alumni office is to generate alumni participation and support in the continuing development of the university. Phone: 216-687-2078.

CSU Foundation, Inc.

The Cleveland State University Foundation Inc. is a private, nonprofit corporation created in 1969 to serve as an independent, tax-exempt organization to solicit, receive, and distribute gifts to the university in accordance with the wishes of the donors.

There is extensive coordination of efforts between the foundation and the Office of University Advancement on fundraising. The two are working cooperatively on the university's initiatives to raise endowment and current use funds.

University fundraising efforts provide much-needed private support for scholarship assistance, research, equipment, educational programs, and facilities.

Gifts to the foundation are tax-deductible within IRS guidelines. Donors have the option of making gifts that are restricted to a specific purpose, or unrestricted. All restricted gifts are used in accordance with the donors' wishes, and unrestricted gifts are used where the need is greatest. Phone: 216-687-5522.

Information Services and Technology

- Go to Information Services and Technology website

The Information Services and Technology (IS&T) division is responsible for ensuring that Cleveland State University's information technology resources are aligned with the strategic priorities of the institution. We ensure that the IT services are dependable, easy to use, cost efficient and operate effectively.

The ultimate purpose of Information Services and Technology is to support CSU's core missions of education, research, service and accessibility. We recognize that these can only be achieved by working in partnership with students, faculty and staff to reach their goals.

IS&T is responsible for developing effective IT policies, procedures and standards, soliciting customer input regarding their substance and rationale. IS&T strongly advocates the use of and adherence to standards as a key step in providing a scaleable, common and affordable CSU computing environment.

IS&T strives to be the IT services partner of choice, delivering customer-focused quality services and support products that add value to the overall CSU community.

Academic Assessment

Each program on campus assesses student learning outcomes as an integral part of the continuous improvement approach to student learning, instruction, and curriculum design. The Office of Student Learning Assessment coordinates all university-wide assessment efforts focused on learning within the major, general education, and student service programs. Systematic assessment of student learning incorporates the

evaluation of papers, projects, portfolios, pre- and post- tests, licensure and other examinations in order to determine whether the university's expectations and goals for learning are being achieved. Current and former students' views about the learning process are also solicited through questionnaires, interviews and focus groups. Additionally, employers and community members are involved in providing feedback, which is used to improve continually all academic and non-academic programs at our university.

Smoke-Free Environment

In 1993, on the recommendation of the Faculty Senate, the Cleveland State University Board of Trustees adopted the University's Smoke-Free Environment Policy, which prohibits smoking inside all university buildings. The initiative for this policy came from within the Cleveland State community and enjoys wide support from students, faculty, staff, and administrators.

Further, the university complies with Chapter 3794 of the Ohio Revised Code, adopted by Ohio voters in November 2006, which further restricts smoking in public areas.

Nondiscrimination Policy and Procedure

A. Cleveland State University is an Affirmative Action/Equal Opportunity institution. No person will be denied opportunity for employment or education or be subject to discrimination in any project, program or activity because of race, color, religion, sex, sexual orientation, national origin, age, genetic information, disability, disabled veteran, Vietnam-era veteran or other protected veteran status.

B. Inquiries concerning implementation of the above policy and compliance with relevant statutory requirements, including, inter alia, Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 may be directed to Maria J. Codinach, Director of the Affirmative Action Office, Administration Center, Room 236, 216-687-2223.

C. Students who wish to seek accommodations under Section 504 of the Rehabilitation Act of 1973 and/or the Americans with Disabilities Act of 1990 must request such accommodations and should contact either the Office of Admissions or the Office of Disability Services, Main Classroom Room 147, 216-687-2015, for information or to request accommodations.

D. Complaints of discrimination, including unlawful harassment, may be addressed through the Affirmative Action Office and the Student Grievance Procedure outlined in the Cleveland State University Student Handbook, copies of which are available through the university's Department of Student Life, Student Center 319, 216-687-2048.

Degree Programs

Undergraduate Catalog
College Information

- Monte Ahuja College of Business
- College of Education and Human Services
- Fenn College of Engineering
- Cleveland-Marshall College of Law
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Graduate College
- Maxine Goodman Levin College of Urban Affairs

Undergraduate Degrees

Monte Ahuja College of Business

Bachelor of Business Administration (B.B.A.). Specialization is available in the following majors:

- Accounting
  BBA Tracks: Public Accounting, Management Accounting, Governmental or Institutional Accounting, Internal Auditing
- Business Administration – a cross-functional major which gives students a breadth of knowledge in four or more business areas.
- Business Economics
- Finance
  Areas of Specialization: Investment Management, Management of Financial Institutions, Real Estate, Financial Management
- Information Systems
- International Business
  Certificate: Global Business
- Management and Labor Relations
  BBA Tracks: General Management, Human Resource Management
- Marketing:
  BBA Tracks: Consumer Marketing, Business-to-Business Marketing, International Marketing, Database Marketing, and Online Marketing
  Certificates: Multimedia Advertising; Arts Management
- Operations and Supply Chain Management
  BBA Tracks: Operations Management, Business Statistics
  Certificates: Arts Management, Business Biotechnology

Bachelor of Science in Computer and Information Science (B.S.C.I.S.). Specialization is available in two tracks of the CIS major:

- Computer and Information Science (CIS) Track
  Concentration Areas: many related fields, typically Business (see majors above), Electrical Engineering, Electronic Technology, Mathematics, Natural Sciences
- Computer Science (CSC) Track
  Concentration Areas: many related fields, typically Business (see majors above), Electrical Engineering, Electronic Technology, Mathematics, Natural Sciences

Courses in the BBA and BSCIS degrees are offered during the day and evenings at the Downtown Campus and at selected times and days at CSU's extended campuses in Westlake and Solon. A BBA degree completion program is also offered at the campus of Lakeland Community College in Lake County, Ohio.

College of Education and Human Services

Bachelor of Science in Education, including major programs in the following fields:

- Early Childhood Education
- Middle Childhood Education
  Discipline-Specific Preparation in at least two of the following Teaching Fields: reading and language arts, mathematics, science, social studies
- Physical Education and Sport
  - Multi-Age Teaching Licensure
  - Allied Sport Professions
    Specialties: Exercise/Fitness Specialist, Sport Manager
- Special Education
  Intervention Specialists:
  - Mild/Moderate Educational Needs;
  - Moderate/Intensive Educational Needs

Teaching Licensure for majors in the College of Science or the College of Liberal Arts and Social Sciences

- *Secondary Licensure:*
  - Integrated Mathematics
  - Integrated Language Arts
  - Integrated Social Studies
  - Dual Field Science
    Concentrations:
    - Life Science and Earth Science
    - Life Science and Chemistry
    - Physics and Life Science
    - Chemistry and Physics
  - Single Field Science
    Chemistry, Earth Science, Life Sciences, Physics
  - Integrated Science
    Majors: Biology, Chemistry, Geology , Physics
- *Multi-Age Licensure:*
  - Foreign Languages: French, Spanish
  - Health Education (as a second teaching field)
  - Music Education
  - Visual Arts Education

Upper Division Honors Program - Teaching Licensure

Post-Baccalaureate Teaching Licensure

- Early Childhood
- Middle Childhood
- Adolescent/Young Adult or Multi-Age

Endorsement Programs

- Teaching English to Speakers of Other Languages

Bilingual Education (Spanish) Certificates:

- Foundations of Autism Spectrum Disorder
- TESOL

Fenn College of Engineering

- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Computer Engineering
- Bachelor of Electrical Engineering
- Bachelor of Mechanical Engineering *(available in the evening)*
- Bachelor of Science in Electronic Engineering Technology *(available in the evening)*
- Bachelor of Science in Mechanical Engineering Technology *(available in the evening)*
- 5 year BS/MS Accelerated Program in Electrical Engineering
- 5 year BS/MS Accelerated Program in Chemical Engineering
- 5 year BS/MS Accelerated Program in Civil Engineering
- 5 year BS/MS Accelerated Program in Mechanical Engineering

College of Liberal Arts and Social Sciences

Bachelor's degrees are awarded in major programs, including the following fields:

- Bachelor of Arts:
    - Anthropology
    - Art
    - Black Studies
    - Classical and Medieval Studies
    - Communication
    - Communication Management
    - Criminology
    - Dramatic Arts
    - Economics
    - English
    - Film and Digital Media
    - French
    - History
    - International Relations
    - Journalism and Promotional Communication
    - Liberal Studies
    - Linguistics
    - Music
    - Philosophy
    - Political Science
    - Religious Studies
    - Social Science
    - Social Studies
    - Sociology
    - Spanish

    - Women's Studies
- Bachelor of Music
- Bachelor of Social Work

College of Sciences and Health Professions

Bachelor of Science, including major programs offered during the day in the following fields:

- Biology *(evening degree also available)*
- Biology - Medical Technology
- Biology (B.S.)./Podiatric Medicine (Doctorate) *with Ohio College of Podiatric Medicine*
- Chemistry *(evening degree also available)*
- Environmental Science
- Geological Sciences
- Health Sciences
- Health Sciences (B.S.)/Podiatric Medicine (Doctorate) *with Ohio College of Podiatric Medicine*
- Mathematics
- Pharmaceutical Sciences
- Physics *(evening degree also available)*

Bachelor of Arts, including major programs offered during the day in the following fields:

- Geological Sciences
- Mathematics
- Physics *(evening degree also available)*
- Psychology *(evening degree also available)*
- Speech and Hearing

Maxine Goodman Levin College of Urban Affairs

Bachelor of Arts degrees are awarded in the following major programs:

- Environmental Studies *(available in the evening)*
  Concentrations in:
    - Environmental Planning and Sustainable Development
    - Environmental Management
- Public Safety Management *(available in the evening)*
  Concentrations in:
    - Public Management
    - Emergency Preparedness/Homeland Security

- Nonprofit Administration *(available in the evening)*

- Urban Studies *(available in the evening)*
  Concentrations in:
    - Urban and Regional Planning
    - Public Management
    - Environmental Policy and Management
    - Personally designed concentration

- Organizational Leadership *(available in the evening)*
  Concentrations in:
    - Urban Studies
    - Management
    - Communication

Five-Year Bachelor's to Master's Degree Programs

- BA/MPA - Public Administration
- BA/MNAL – Nonprofit Administration and Leadership
- BA/MA – Environmental Studies

School of Nursing

Bachelor of Science in Nursing

Graduate Degrees

The programs of the College of Graduate Studies and the Cleveland-Marshall College of Law are described in detail in separate catalogs which may be accessed online on the following websites.

- Click here to go to the Graduate Catalog
- Click here to go to the Cleveland-Marshall College of Law Website

College of Graduate Studies

Most Cleveland State University graduate programs are offered during afternoon and evening hours.

- Go to College of Graduate Studies Website

Accelerated (4 + 1) Degrees

The accelerated program combines two existing degree programs, enabling students to earn bachelor's and master's degrees in five years.

- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Environmental Engineering
- Environmental Studies
- Mechanical Engineering
- Nonprofit Administration and Leadership
- Public Administration

Master's degree programs

- Master of Accountancy
- Master of Applied Communication Theory and Methodology
- Master of Arts in Economics
- Master of Arts in English
- Master of Arts in Environmental Studies

- Master of Arts in Global Interactions
- Master of Arts in History
- Master of Arts in Mathematics
- Master of Arts in Philosophy
- Master of Arts in Psychology
- Master of Arts in Sociology
- Master of Arts in Spanish
- Master of Arts in Speech Pathology and Audiology
- Master of Business Administration
- Master of Executive Business Administration
- Master of Computer and Information Science
- Master of Education
- Master of Fine Arts in Creative Writing
- Master of Labor Relations and Human Resources
- Master of Music
- Master of Nonprofit Administration and Leadership
- Master of Occupational Therapy
- Master of Public Administration
- Master of Public Health
- Master of Social Work
- Master of Science in Biology
- Master of Science in Chemical Engineering
- Master of Science in Chemistry
- Master of Science in Civil Engineering
- Master of Science in Electrical Engineering
- Master of Science in Engineering Mechanics
- Master of Science in Environmental Engineering
- Master of Science in Environmental Science
- Master of Science in Health Sciences
- Master of Science in Industrial Engineering
- Master of Science in Mathematics
- Master of Science in Mechanical Engineering
- Master of Science in Nursing
- Master of Science in Physics
- Master of Science in Software Engineering
- Master of Science in Urban Studies
- Master of Urban Planning, Design and Development

Graduate Specialists degrees are offered in educational administration, counseling and pupil personnel administration, and school psychology.

Doctoral degrees

- Doctor of Business Administration
- Doctor of Engineering
- Doctor of Philosophy in Adult Development and Aging
- Doctor of Philosophy in Regulatory Biology
- Doctor of Philosophy in Clinical-Bioanalytical Chemistry
- Doctor of Philosophy in Urban Education
- Doctor of Philosophy in Urban Studies and Public Affairs
- Doctor of Physical Therapy

Dual degrees

- Juris Doctor/Master of Science in Environmental Science
- Juris Doctor/Master of Arts in Environmental Studies
- Juris Doctor/Master of Business
- Juris Doctor/Master of Public Administration
- Juris Doctor/Master of Urban Planning, Design, and Development
- Master of Science in Nursing/Master of Business Administration

Graduate Certificate Programs

- Adult Learning and Development
- Advanced Study in Bioethics
- Culture, Communication, and Health Care
- Gerontological Studies
- Global Business
- Healthcare Informatics
- Local/Urban Management
- Marketing Analytics
- Middle Childhood Mathematics Education
- Middle Childhood Science Education
- Museum Studies
- Museum Studies (Natural History)
- Nonprofit Management
- Nursing Education
- Occupational and Physical Therapy in the Schools
- Research Administration
- Software Engineering
- Teaching English to Speakers of Other Languages (TESOL)
- Urban Economic Development
- Urban Geographic Information Systems
- Urban Real Estate Development and Finance

Cleveland-Marshall College of Law

The College of Law confers the following degrees:

- Juris Doctor (JD),
- Master of Laws (LLM),
- Law and Master of Business with the Monte Ahuja College of Business (JD/MBA),
- Law and Master of Public Administration with the Levin College of Urban Affairs (JD/MPA),
- Law and Master of Urban Planning, Design and Development with the Levin College of Urban Affairs (JD/MUPDD),
- Law and Master of Science in Environmental Science with the Department of Biological, Geological, and Environmental Sciences (JD/MSES), and
- Law and Master of Environmental Studies with the Levin College of Urban Affairs (JD/MAES)

Resources and Facilities

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Michael Schwartz Library

The University Library is the place to get connected to information resources for a successful college career. Whether connecting to the library using the Internet (http://library.csuohio.edu/), using the phone (216- 687-5300), or in person in Rhodes Tower, the library offers solutions to students' information needs. The library's mission is to bring people and information together. Library staff helps students become proficient information users and fulfills academic and research needs.

Collections

The library collections provide the best of contemporary and traditional research tools. The library's online collection of books and journal articles is far more suitable for academic coursework and research than resources available elsewhere on the Internet. With online access to over 45,000 journal titles, more than 750 research databases, and other online resources, materials required to write term papers, complete course assignments, and conduct other research are readily available. The on-site collection includes more than one million print volumes and more than one million additional items, such as sound recordings, video recordings, DVDs, and microforms.

Special Collections (http://web.ulib.csuohio.edu/SpecColl/) covers various topics but focus on primary research materials for the study of the economic, cultural, social, and political history of Cleveland, northeastern Ohio, and the Great Lakes region. Many of these special collections are available online (http://www.clevelandmemory.org/) through the Cleveland Memory Project.

Electronic Course Reserve (http://library.csuohio.edu/services/ecr.html) provides thousands of items, in a variety of formats, each semester to supplement course material.

OhioLINK, a consortium of 85 colleges and universities, the State Library of Ohio, and Cuyahoga County Public Library, allows atudents to place online requests for books from a statewide collection of over 47 million volumes. For items not in OhioLINK, InterLibrary Loan allows access to an unlimited number of library books and journals owned by other libraries in Ohio, the country, and the rest of the world.

Services

The library's website (http://library.csuohio.edu/) is the research starting point for access to thousands of online journal articles, e-books, research databases, and the virtual reference desk. Bookmark the library's website and use it as a first choice when looking for information pertaining to coursework and research.

For tips with selecting and using information resources, reference librarians can offer one-on-one expert advice. Contact one of these information professionals by phone (216-687-5300), by e-mail (http://library.csuohio.edu/services/ask/email.html), or in person in the library.

The library also provides group or class instruction. Through collaboration between instructors and library staff, students learn to use the best information resources rather than relying on random information found through search engines.

Facilities

The Library Learning Commons

The Reference Center in the Library Learning Commons is the best place to start a research project because librarians are there to help with coursework and research involving information resources. The area provides 56 computer workstations and access to numerous print and online resources. The library Computers@Learning Commons instruction rooms are also located near the Reference Center and contain an additional 56 computers.

The library Connection Lounges, located just west of the User Services Center and east of the Adaptive Technology lab on the first floor, provide places to relax, read the latest news, browse current popular books, and hang out with your friends. These contemporary and inviting spaces have comfortable lounge chairs, popular reading materials courtesy of Cleveland Public Library, café-style chairs and tables, electrical outlets and network connections, and a large-screen TV with continuous news coverage.

Multimedia Services

In Multimedia Services, located on the third floor of the library, students can listen to music for a class, watch a video or a webcast, and take media-based tests. The lab features both PCs and Macintosh computers, scanners for use in scanning text or images, as well as a wide range of software that allows you to edit audio and video files, design multimedia webpages, and create graphics and PowerPoint presentations. Multimedia Services also has specifically configured Tandberg audio recorders to facilitate foreign-language learning. In the Viewing Room, you can watch DVDs, videotapes, and even 16mm films in cinema-like surroundings.

Students can rehearse classroom presentations in the library's Presentation Practice Room in RT 304. The room is equipped with a SmartBoard, PC, overhead projector and lectern. Additional media equipment is available upon request. Call us at 216-687-9337 to reserve RT 304, or to request information on any of the facilities, equipment or materials available at Multimedia Services.

The Writer's Lab, a 25 seat PC lab located in RT 302, is a joint venture of the First-Year Writing Program and the library designed to provide additional support for students enrolled in First-Year Writing courses. The lab's primary use is for computer-assisted instruction for developmental writing students; however, the lab is open and available to all writing teachers and students. The lab is also used to support library instruction, particularly for First-Year Writing courses,

Other Library Facilities

The first-floor Adaptive Technology Lab serves students with special needs. Those with physical impairments find adaptive keyboards, enhancing their ability to complete their coursework. For individuals with visual impairments, the lab is equipped with software that scans text, reads text back, and prints in Braille or enlarged text.

The library provides a quiet place to study on the second floor, which has been designated the Silent Study floor. Since group projects have become more prevalent, the fourth floor has been designed for group study and is furnished with special tables with electrical outlets and network connections conveniently placed. The campus wireless network is available throughout the library.

Technologically advanced electronic instruction rooms are used for library instruction, training in the use of technology, presentations, and hands-on computing exercises. The instruction rooms offer inviting workspaces and flexible seating along with specific equipment such as PCs or laptops, touch-enabled presentation screens, wireless keyboards and mice, and VCR and DVD players. "Smart rooms" enable interactive video distance learning when classmates are located across town or even in other counties. The rooms are also equipped for video conferencing.

When classes are in session, library hours are typically Monday through Thursday, 7:30 a.m. – 10:00 p.m.; Friday, 7:30 a.m. – 6:00 p.m. Hours for weekends, holidays, and other exceptional days are posted on the library website.

Resources and Facilities

Information Services and Technology

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Introduction

The Information Services and Technology (IS&T) department is responsible for ensuring that Cleveland State University's information technology resources are aligned with the strategic priorities of the institution. We ensure that the IT services are dependable, easy to use, cost efficient and functionally sound.

The goal of Information Services and Technology is to support CSU's core missions of education, research, service and accessibility. We recognize that these can only be achieved by working in partnership with students, faculty and staff to reach their goals.

IS&T is responsible for developing effective IT policies, procedures and standards, soliciting customer input regarding their substance and rationale. IS&T strongly advocates the use of and adherence to standards as a key step in providing a scaleable, common and affordable CSU computing environment.

IS&T strives to be the IT services partner of choice, delivering customer-focused, quality services and support products that add value to the overall CSU community.

Cleveland State Websites

Through the use of technology, students can explore faster and better ways to find books, do research on the Internet, and communicate with others around the world. The following is a brief description of the many services that are available to our students.

University Website:
(http://www.csuohio.edu)

Cleveland State University has a website full of useful information. Anyone who has a personal computer and access to the Internet can get information about the university.

A wide variety of information is available from the university website, including an international student guide, a student admissions guide, a campus map with photos of all buildings, directories on how to reach Cleveland State and where to park. In addition, each college has its own home page, which includes a general description, course offerings, faculty profiles, information about special programs, and more. Many individual departments and professors also have their own web pages.

Useful Websites:

IS&T Call Center: http://www.csuohio.edu/offices/ist/needhelp/call_center.html

IS&T Knowledgebase for computer-related questions/issues: http://askIT.csuohio.edu

Computer labs, equipment & hours, etc.: http://www.csuohio.edu/offices/ist/studentcomputing/labs.html

CampusNet to register for courses, view grades, print unofficial transcript, etc.:
https://campusnet.csuohio.edu/index.jsp.

IS&T Technology Information and Services: http://www.csuohio.edu/offices/ist

Free Virus-Scanning & Internet-Related Software

IS&T provides free virus scanning software on a CD which includes access to free weekly updates. The CD is available from RT 1104 and includes instructions for set-up and use. In addition, IS&T provides a CD containing several freeware and shareware packages through IAP (Internet Access Pack). This free CD can be picked up at RT 1104.

Electronic Mail (E-mail)

Every applicant and registered Cleveland State student — part-time, full-time, undergraduate, graduate and law — has an account on the campus e-mail system. Students who prefer to forward their Cleveland State e-mail to another e-mail address can do so in CampusNet or by contacting the Call Center (216-687-5050). As emergency notifications, special events, and other student-specific announcements are sent via e-mail, IS&T recommends that students check their Cleveland State e-mail regularly or forward their Cleveland State e-mail to another e-mail address.

For help accessing your e-mail, contact the Call Center at 216-687-5050 or check out the following website: http://www.csuohio.edu/offices/ist/getconnected/email.html.

E-mail is available from any networked PC, anywhere. Access to your e-mail is available from the 'Campus Email' link on the Cleveland State home page or by going directly to the following URL: https://webmail.csuohio.edu/. If you prefer, you can also access your e-mail via Outlook, Outlook Express, or other e-mail clients. Instructions for using these clients are available from the IS&T CSU E-mail resource page located at http://www.csuohio.edu/offices/ist/getconnected/email.html.

CampusNet

CampusNet is a user-friendly information system available to students from any computer with an Internet connection, including home computers, on-campus kiosks, and campus networked computers. The Internet address for the CampusNet system is: https://campusnet.csuohio.edu/index.jsp.

Using CampusNet, students can register for classes, add and drop classes, and pay their bursar's accounts. In addition, CampusNet provides commonly requested student information. A student may view and print his or her Bursar's account balance, registration schedule, course list, financial-aid award amount, student record information, unofficial transcript, and personal information, such as address and e-mail address.

CampusNet is accessible with your CSU ID and CampusNet Password. Students who do not know their ID or CampusNet Password can contact the Call Center at 216-687-5050.

Computer Use on Campus

Discounts on Purchases

Students may purchase Apple and HP computers at significant discounts through the university partnership with these vendors. They can get more information by visiting the IS&T Shopping PCs website at http://www.csuohio.edu/offices/ist/shoppingpcs/.

Laptop Loans through the Mobile Campus

The Mobile Campus provides free laptop loans to students for up to four hours per loan. These laptops can include either a floppy or CD/RW/DVD drive. There is no cost to either signup for the program or to borrow the laptops. For more information, including hours of operation, please visit http://www.csuohio.edu/offices/ist/studentcomputing/mobile_campus.html.

Student Laptop Use on Campus

Students may use their own laptops on campus or may borrow a wireless laptop from the Mobile Campus, located in the Main Classroom Plaza level.

WIRELESS: The entire campus is wireless. Students can use their own laptop to connect to the Internet using the university wireless network. A wireless card configured for the CSU wireless network and a CSU ID and CampusNet Password is all you need.

NETWORK DROPS: Students who want to connect their laptop to the Internet on campus using an Ethernet card will need:

1. An Ethernet card set-up for the Cleveland State environment. Instructions available in the computer labs and RT 1104
2. Their CSU ID and CampusNet Password (available from the IS&T Call Center at 216-687-5050)
3. A port to plug into, available in the library, the law library and areas of Urban Studies
4. A network cable

Campus Connection Lounges

The Campus Connection Lounges are available for casual computer use. Over 50 computers, including Macs, are available with MS Office, Internet access, e-mail access, etc. To use a lounge computer, students will need their CSU ID and CampusNet Password. The Call Center can help students who do not know these (216-687-5050). The lounge provides up to 2,000 pages of free printing per semester. For a schedule of hours, please go to: http://www.csuohio.edu/offices/ist/studentcomputing/connlounge.html.

General Purpose Labs

Student labs are available across the campus. General Purpose Labs are located in Rhodes Tower 403 (in the Main Library), Stilwell Hall 128, Main Classroom 446, Fenn Tower 103, Business Building 23 and Urban Affairs Building 39 and 40. The General Purpose Labs are quiet study areas which provide up to 2,000 pages free printing per semester and scanning. Stilwell Hall lab also has two group work areas where 4-5 students can use a PC together. For a list of hours, software and equipment, visit the following website: www.csuohio.edu/offices/ist/studentcomputing/labs.html.

In the labs, students can use software such as the current Microsoft Office Suite of products, SAS and SPSS statistical software. They can also perform research on the Internet and check e-mail. Lab assistants are available to answer questions and help with problems.

Multi-screen, Multi-media PCs are now available in all General Purpose Labs. Each Multi-media PC has the Adobe Design Premium suite, Microsoft Project, and Microsoft Visio in addition to the normal suite of lab software.

To use the labs, students will need to sign in using their CSU ID and CampusNet Password (available from the Call Center at 216-687-5050).

College Computing Labs

In addition, many colleges maintain their student labs. Lab locations are listed at http://www.csuohio.edu/offices/ist/studentcomputing/labs.html with information about available equipment and hours of operation.

Mobile Applications

The CSU Mobile Applications help students quickly find the important information they need to navigate the CSU campus, find computer labs, locate dining and parking facilities, look up the academic calendar, browse major/minor information and more. The CSU Mobile App is available for the iPhone, Blackberry and Android phones, and the iPad. For more information, please visit http://mycsu.csuohio.edu/mobileapps.

Microsoft and Adobe Software

Through a special contracts with Microsoft and Adobe, the university offers a significant discount on most Microsoft and Adobe products to students. For information about available products, contact the CSU Bookstore at 216-687-2128. The Microsoft special deals include Microsoft Office (Word, Excel, Access, Outlook and PowerPoint) and Microsoft Operating System upgrades. Adobe special deals include Photoshop, Acrobat Reader, Dreamweaver and various software suites.

Software Training

Hundreds of free, non-credit computer-related courses are available online. These can be used from any Internet-accessible computer. Topics ranging from Microsoft Word to Team Building are covered. In addition, hundreds of online reference books are available. To access these courses, visit http://www.csuohio.edu/training and use your CSU ID and CampusNet Password to login. For help with these, please contact the Call Center at 687-5050.

Students who work for the university and need training for their work can attend classroom-based computer-related training sessions offered to faculty and staff through IS&T Training (See http://www.csuohio.edu/offices/ist/services/training).

IS&T Call Center

The IS&T Call Center provides technical and software assistance to students, staff, and faculty. The IS&T Call Center can assist with Internet access, e-mail, and many other technical problems.

Contact the IS&T Call Center by

- Checking the website: http://www.csuohio.edu/offices/ist/needhelp/call_center.html
- Coming to RT 1104
- E-mailing a question to callcenter@csuohio.edu
- Calling 216-687-5050.

IS&T Call Center normal hours during fall and spring semesters are:

Day	***Phone Hours***	***Walk-in Hours***
Sun	Closed	Closed
Mon	7:30 a.m. - 10:00 p.m.	8:00 a.m. - 5:00 p.m.
Tue	7:30 a.m. - 10:00 p.m.	8:00 a.m. - 5:00 p.m.
Wed	7:30 a.m. - 10:00 p.m.	8:00 a.m. - 5:00 p.m.
Thu	7:30 a.m. - 10:00 p.m.	8:00 a.m. - 5:00 p.m.
Fri	7:30 a.m. - 5:00 p.m.	8:00 a.m. - 5:00 p.m.
Sat	7:30 a.m. - 5:00 p.m.	Closed

Check the website for vacation, holiday and summer hours (http://www.csuohio.edu/offices/ist/needhelp/call_center.html).

PC Repair Shop

The PC Repair Shop is a for-fee repair service for personally owned student, faculty and staff PCs, Notebooks, and Apple computers. The PC Repair shop is located inside the SH 128 Lab and is open Monday through Thursday 9am to 5pm. Equipment may also be dropped off at the Mobile Campus Laptop Loan program outside of those hours. Check the website for more information and pricing (http://www.csuohio.edu/offices/ist/services/student/computer_repair.html).

System News

IS&T also maintains a phone line with a recording listing any current system outages. System News line is updated each weekday. Call 216-687-5252.

Campus Mailbag

When the university needs fast communication with students, we add a notice to the Campus Mailbag which is accessible from a link on the myCSU page: mycsu.csuohio.edu. These messages help students keep in touch with campus events and announcements.

Online Learning

Some classes use a course management system called Blackboard to enhance or take the place of traditional classroom instruction. Each professor using Blackboard or other Web-enhanced course materials will provide students with directions for access and use.

IS&T Communications - ask the CIO & info@csuohio.edu

IS&T provides newsletters online at http://www.csuohio.edu/offices/ist/ . When students have specific information technology-related questions, they can send an e-mail directly to the IS&T CIO at askcio@csuohio.edu.

Resources and Facilities

Undergraduate Studies

- Go to Undergraduate Studies website

Undergraduate Studies is responsible for coordinating undergraduate programming inside and outside of the classroom. The purpose of this division is to understand the issues of CSU students in order to provide a positive and supportive learning environment that will lead to better retention, academic success and greater service to students.

Offices within Undergraduate Studies are:

General Education: This office coordinates the courses that provide a foundation of knowledge and skills that are important for all CSU graduates. (http://www.csuohio.edu/academic/gened/).

Honors Program: This program provides highly-motivated, academically talented students with a challenging academic program along with the opportunity for renewable scholarships and other academic privileges. The University Scholars Program is also administered through Honors (http://www.csuohio.edu/honors/).

Undergraduate Studies Advising: Undergraduate Studies advising includes the Exploratory Advising Office (http://www.csuohio.edu/academic/advising/exploratory/), which offers academic advising and support for students undecided about their academic major or program, and the TRIO Student Support Services Program (http://www.csuohio.edu/academic/advising/trio.html), which provides academic advising and support for first-generation college students. The Tutoring and Academic Support Center is also part of this office. (http://www.csuohio.edu/academic/advising/tutoring/)

Curricular Affairs: This program helps coordinate the state-wide initiatives that allow students to transfer many courses from one Ohio institution to another.

Advising Services

- Academic Advising at Cleveland State University
- Academic Advising Services
- Athletic Academic Advising
- TRiO/Student Support Services
- Go to Advising website

Academic Advising

Academic advising is a critical and important support resource available to all undergraduate students at Cleveland State University. Advising support helps ensure that students get the most out of their academic experience. Academic advisers on campus work closely with students on an individual basis to help them develop and achieve their academic, career, and personal goals, and provide ongoing support and assistance to enhance student success. This ongoing support includes the following:

- Guidance in planning a program of study according to each student's academic interests, skills, and goals
- Helping students develop an understanding of the academic requirements needed for graduation, including GenEd, college, and major requirements
- Providing students with assistance in major and career exploration choices and opportunities
- Assistance with navigating and utilizing university information systems such as CampusNet and Degree Audit
- Assistance with learning and understanding university policies and procedures
- Assistance with petitions and graduation applications
- Providing referrals to appropriate university resource offices and departments as needed

Cleveland State Academic Advising Process

Cleveland State University utilizes a model of advising in which a majority of the academic advising is provided in the academic colleges. Each college of the university has its own advising office designed specifically to provide advising support for students in that particular college. This model of advising provides students with an immediate connection to their college and college adviser, and provides a venue for students to get connected with their academic major department and faculty. This link to college advisers, academic departments, and faculty is a critical component of achieving and maintaining academic success.

Cleveland State also offers advising support to students who are undecided about their major through the Exploratory Advising Office.

For information about how to determine which advising office is appropriate for you, and how to contact your college advising office, go to http://www.csuohio.edu/academic/advising/

Athletic Academic Advising Program

- Go to Athletic Academic Advising website

Athletic Academic Advising assists the student athlete in assuming the responsibility for the determination of all aspects of academic and career goals while complying with NCAA rules and bylaws. The Athletic Academic Advising program is designed to supplement, support, advise, counsel, direct and suggest, but the student-athlete must assume the responsibility for his or her own education. Athletic Academic Advising informs, counsels, advises, enlightens and explains to students the options and support services available that will

sustain academic success while applying NCAA rules and regulations that tend to limit normal academic freedom, but accelerate their pursuit of a degree. For more information, Call (216) 687-4824

TRIO/Student Support Services

- Go to TRIO/Student Support Services website

The TRIO/Student Support Services Program is grant funded through the United States Department of Education and has been part of the Cleveland State University Campus for over thirty-eight years. TRIO/SSS works in cooperation with all offices at Cleveland State University and continues to be committed to helping students progress towards graduation and beyond. TRIO/SSS provides opportunities for academic development, assists students with basic college requirements, and serves to support and motivate students toward the successful completion of their postsecondary education. The goal of TRIO/SSS is to increase the college retention and graduation rates of its participants and help students make the transition from one level of higher education to the next.

TRIO/SSS participants have benefited from the following services:

- Academic advising
- Academic skills sessions
- Career planning seminars
- Computer application workshops
- Cultural and social enrichment activities
- Financial aid workshops
- Graduate and professional schools preparation
- Peer mentoring
- Summer Enrichment Program
- Tuition assistance (if eligible)
- Tutorial services

To qualify for participation in the TRIO/SSS Program at Cleveland State University, an applicant must meet the following criteria:

- Be officially admitted and enrolled at Cleveland State University
- Be a citizen or national of the United States of America or meets the residency requirements
- Be a first generation college student (parent(s) did not graduate from a 4 year institution) and/or,
- Meet income criteria set forth by the U.S. Department of Education

If you are interested and want to determine your eligibility, please call (216) 687-2402 or visit the TRIO/Student Support Services Program office in Main Classroom 110.

All services are provided at NO COST to participants of the TRIO/Student Support Services Program.

Tutoring and Academic Success Center

About the Center

Do you need help with a tough course? Do your study skills need a boost? The Tutoring and Academic Success Center (TASC) provides academic assistance to Cleveland State University students in a supportive learning environment. A staff of dedicated peer tutors provides free out-of-class assistance in a wide variety of subject areas at the undergraduate level. Please view our website (www.csuohio.edu/academic/advising/tutoring) for a complete listing of courses for which we currently provide tutoring. Tutoring is provided in a 1:1 setting, as small study groups, and language conversation groups. If you require assistance with specific academic skills (note taking, studying, time management, etc.), you could arrange a meeting with a Success Coach to discover strategies for your personal learning style.

Tutoring is coordinated through pre-scheduled individual sessions as well as facilitated by walk-in specialists in a variety of content areas from 11am-3pm Monday through Thursday. Students are encouraged to bring their course texts and materials with them to their sessions and schedule appointments early in the semester. Contact or visit the Tutoring and Academic Success Center at 216-687-2012, Main Classroom (MC) 401. (Monday-Thursday 8am-6pm and Friday 8am-5pm). No appointments will be scheduled over the phone.

SI and SLA Programs

The Tutoring and Academic Success Center is proud to host the SI and SLA programs. Supplemental Instruction (SI) is a nationally recognized academic assistance program that provides regularly scheduled, free, informal sessions in which students review lecture material, revise notes, discuss readings, and apply learning strategies. Students learn how to integrate course content and study skills while working together.

Structured Learning Assistance (SLA) incorporates weekly study and practice sessions into the required course meeting time. During the SLA session, students receive additional opportunities to master course content, develop learning strategies for the course, and better understand the expectations of the professor.

eTutoring

Sponsored by the Tutoring & Academic Success Center, the Writing Center, and the Math Testing and Learning Center, eTutoring is a state-wide consortium of tutors from Ohio universities who provide live and asynchronos tutoring. Students who need academic assistance at non-traditional hours are encouraged to utilize eTutoring by logging on through the TASC website and clicking on eTutoring to create an account. eTutoring provides free online tutoring to students in math (Developmental – Calculus II) and writing (in any content area). Writing samples will be returned with suggestions in 24-48hrs.

Department of Student Life

Health & Wellness Services

- Health & Wellness Services
- Counseling & Testing Services
- Disability Services

Health & Wellness Services contact information:

- Campus location: SR 153
- Phone: 216-687-3649
- Director: Henry W. Eisenberg, M.D.

Health & Wellness Services

- Go to Health & Wellness Services website

Health & Wellness Services offers confidential health-care services to all students, faculty, and staff of the Cleveland State University community. The clinic is staffed by nurse practitioners and two physicians. We provide care for most problems for which you would see your family physician, including blood tests, immunizations, allergy shots, and other laboratory tests. Health-care needs such as sore throats, upper respiratory infections, bladder and gynecological problems and skin concerns can be evaluated and treated. If problems are outside our area of expertise, referrals will be made.

Counseling regarding health concerns such as diet, exercise, activities of daily living and smoking cessation are also addressed. Contraceptive services are available and sexually transmitted infections are evaluated and treated. Free HIV testing is provided. The staff will be glad to discuss your health concerns and are available for consultation.

Services are available by appointment. We have a same-day system for individuals who are acutely ill. Appointments may be scheduled for that day by calling 216-687-3649 at 8:10 a.m. Health & Wellness Services is located in SR 153. Hours during the academic year are 8:00 a.m. - 5:30 p.m. Monday and Tuesday and 8:00 a.m. - 5:00 p.m. Wednesday through Friday. Summer and break hours are 8 a.m. - 5 p.m. Monday through Friday.

Health & Wellness Services coordinates the Student Health Insurance program. Our goal is to offer the best possible health insurance coverage from an outside provider for the best price. We serve as the gatekeeper for students who purchase the student health insurance. In order for non-emergency visits to be covered, a referral from Health & Wellness Services is required, which helps keep the premium low for students. For more information about the student health insurance program, contact GM Southwest at 1-800-550-4870. To schedule an appointment at Health and Wellness Services call 216-687-3649.

Emergency and infirmary care is provided by area hospitals.

Resources and Facilities

Counseling and Testing Center

- Counseling Services
- Testing Services
- Academic Services Center (Placement Testing)
- Go to Counseling and Testing Center website

Counseling Services

Counseling Services, located on the 12th floor of Rhodes Tower, offers a range of services to students and staff. The purpose of the services is to help students maximize their university experience by helping them better adjust to changes in the personal, interpersonal, educational, and vocational areas of their lives.

The following services are available:

- **Individual Counseling** is short-term counseling, usually one to 10 sessions with a counselor to resolve any concerns that a student may have.
- **Couples Counseling** is designed to enrich couples' relationships by solving problems, improving communication, and resolving conflicts. Couples counseling is offered to all students and their partners.
- **Group Counseling** involves a small number of students who meet to discuss common concerns. The supportive atmosphere and variety of perspectives in group counseling can be particularly helpful.
- **Personal, Educational, and Occupational Information** is available through self-help books, educational and vocational planning aids, and information about a variety of psychological problems in the Counseling Center's library.
- **Academic Counseling** is aimed at improving study skills and eliminating blocks to optimal academic performance.
- **Vocational/Career Counseling** employs assessment tools and other counseling interventions to help students clarify their interests, select majors, and decide on the career that best fits their interests, abilities and values.
- **Outreach Programming** addresses the specific needs of the university community and relates to a wide domain of psychological issues.
- **University Community Assistance Program (UCAP)** provides initial consultation, assessment, and referral when personal problems begin to interfere with a Cleveland State University employee's well-being or work performance.
- **Consultation Services** include private consultation with faculty or staff to assist them in working with each other as well as with students who are of particular concern. Consultation also may be with students who are concerned with the well-being of a friend.
- **Workshops and Seminars** are designed to address specific topics such as test-anxiety control, stress management, career decision-making, and overcoming blocks to learning. Counseling Services also offers single-session programs. A variety of topics can be addressed in talks with student or faculty groups. They can be presented in one 60- to 90-minute session, or arrangements can be made to adapt the program to suit a group's special needs.
    - Educational and Vocational Programs
        - Choosing a Major
        - Discovering Interests
        - Reducing Stress During Mid-Terms and Finals
        - Blocks to Learning and How to Overcome Them
    - Study Skills/Academic Services
        - Improving Study Techniques
        - Taking Lecture Notes
        - Improving Listening and Concentration

        - Reducing Test-Taking Panic
        - Managing Test Anxiety
        - Taking Tests
        - Writing Term Papers
        - Speed Reading
        - Preparing for Tests
        - Establishing Study Groups
    - Faculty Workshops
        - Improving Academic Advising
        - Student Needs
        - Working With Angry People
        - Understanding Multicultural Differences
        - Recognizing and Referring the Student in Distress
    - Interpersonal Programs
        - Initiating and Building Relationships
        - Parenting Skills
        - Strengthening Family Relationships
        - Assertiveness
        - Goal Setting
        - Time Management
        - Feeling Good or Overcoming Depression
        - Alcohol Awareness
        - Human Sexuality
        - Eating Disorders

Testing Services

The Testing Center administers entrance exams such as I-ACT and Michigan Test of English Language Proficiency. Several graduate exams, certification exams and validation exams are also given. These include PRAXIS, GRE (subject tests), PCAT, and the MAT. The CLEP (College Level Exam Program) is available on a computerized system. This exam permits a student to receive college credit for a course by passing a 90 minute multiple choice exam. Proctoring services are available for independent study courses. Faculty test scoring service and student evaluations of faculty are available through the Testing Center.

Academic Services Center

The Academic Services Center provides various forms of academic support including: COMPASS placement testing for math, English, Spanish and French for new students.

Placement testing is the first step required of all new freshman students and those transfer students who have not successfully completed college-level English or math courses. In order to enroll in any English or math course, the placement testing process must be completed prior to registration. The English and math placement tests are designed to assess the level of proficiency in the written use of English as well as a student's mathematical competency level. The objective is to place students into English composition and mathematics courses commensurate with their level of competency. Students are required to register for the course level in which they are placed. In some cases, further testing may be required. For placement testing information, please call 216-687-2566 or visit http://www.csuohio.edu/offices/counselingtesting/placementhome.html.

Resources and Facilities

Office of Disability Services

- Go to Office of Disability Services website

The Office of Disability Services (ODS) at Cleveland State University serves students with a variety of disabilities, including, but not limited to: learning disabilities, chronic health issues, psychological conditions, hearing impairments, mobility impairments, Attention Deficit Disorders and visual impairments.

Students who wish to request accommodations through ODS must have a documented disability and be registered through the office. Accommodations are individualized and depend upon student needs and course requirements. Some common accommodations include note-takers, recording lectures, extra time and separate quiet rooms for exams. Students registered through ODS are able to utilize the Assistive Technology Lab and may request alternative text for their books.

Cleveland State University's campus is accessible and significantly barrier-free. For information, call 216-687-2015 or 216-687-3633. (V/TTY)

Department of Student Life

- Go to Department of Student Life website

The Department of Student Life is committed to supporting and enhancing the university's educational mission. Student Life's mission is to create and sustain a learning environment that supports a community in which students are involved and have a sense of belonging, provides support for students in need, encourages students to become leaders, offers a wide range of exciting social opportunities, promotes community standards, and fosters respect for the dignity and worth of all persons. In short, we seek to challenge and support our students to become responsible, engaged citizens of the campus community, Greater Cleveland, and the global society.

A highly trained staff of professionals is available to support students from their first day on campus to the completion of their academic goals. Programs and services include leadership training and service experiences, support of recognized university student organizations, fraternities and sororities, student media organizations, judicial affairs, student activities, and many others that support the success of all students. Visit us in Student Center 319, call 216-687-2048, e-mail studentlife@csuohio.edu, or explore online at http://www.csuohio.edu/studentlife

- Activities
    - Student Activities
    - City is Our Campus Ticket Program
    - Campus Activities Board
- Center for Student Involvement
    - Student Organizations
    - Fraternities & Sororities
    - Student Bar Association
    - Student Government Association
    - Student Media
- Center for Leadership & Service
- Veteran Student Success Program
- Judicial Affairs

Activities

- Student Activities
- City is Our Campus Ticket Program
- Campus Activities Board

Student Activities

- Go to Student Activities website

The entire campus community, including students, faculty and staff, is provided with an array of campus-wide programs to attend throughout the year. These activities, sponsored by Student Activities, the Campus Activities Board, and other sponsoring groups throughout campus, include social events, lectures, dances, holiday celebrations, and food and music activities. Events include Welcome to CSU Week, Springfest, Chillfest, Chili Challenge, Dinner and Dialogue, and many more. If you are interested in volunteering to help plan these events, or if you want more information about attending them, contact the Student Activities staff at 216-687-2048 or e-mail at activities@csuohio.edu. Most events are free and open to the entire campus.

The City is Our Campus Ticket Program

- Go to Tickets website

The city is your campus. So, take advantage of it and have some fun. Through developing partnerships with a variety of organizations, the Department of Student Life offers opportunities for CSU students to experience all that Cleveland has to offer -- often at a discounted (sometimes free) price. To get the latest information about The City is Our Campus Ticket Program, sign-up to receive e-mail updates by e-mailing activities@csuohio.edu, or visit the website at http://www.csuohio.edu/studentlife/tickets/

Campus Activities Board

- Go to the Campus Activities Board website

The Campus Activities Board (CAB) is a student organization whose primary function is to plan and facilitate cultural, social, recreational, and educational events. CAB is responsive to student interests, with a primary goal of fostering campus community and unity. CAB offers leadership opportunities in event planning, promotions, budget management, and team development. CAB features five student officer positions (Director, Assistant Director, Budget Manager, Events Coordinator, and Marketing) and a variety of intern volunteer and committee opportunities for those interested in campus event planning.

CABSquad is the events and marketing committee for the Cleveland State Campus Activities Board. Joining **CABsquad** is a great way to meet new people and to become connected with the CSU campus. Through **CABsquad**, members gain experience in recruiting, planning, organizing and promoting events.

To join **CABsquad** visit Student Center 332 or call 216-687-2244.

Center for Student Involvement

- Student Organizations
- Fraternities & Sororities
- Student Bar Association
- Student Government Association
- Student Media
- List of Recognized Student Organizations

Student Organizations

More than 150 student organizations are recognized by Cleveland State University. They provide students with opportunities for co-curricular involvement, leadership development and social networking. Organizations invite students to participate in academic, professional, recreational, service and social activities hosted on campus for their benefit. Organizations are open to all students, and the Department of Student Life will assist in establishing new organizations. Other exciting developmental opportunities for involvement are available through our Student Leader Scholarship program, which provides scholarship funds for various leadership positions in some of our General Fee organizations (i.e., Student Government Association, Student Bar Association, Student Media Publications [Cauldron, Vindicator, WCSB 89.3] to name a few). Stop by the Student Organization Involvement Fairs, scheduled for both Fall and Spring semesters. Pick up a Student Organization Directory in the Department of Student Life or view our Web site at: http://www.csuohio.edu/studentlife/studentorgs

Bottom line ...
don't waste time ...

join a student organization today
and begin to define your way
as you make it to graduation day.

Fraternities & Sororities

- Go to the Greek Life website

Cleveland State is home to eight nationally recognized fraternities and seven sororities as well as local fraternities and sororities. These Greek-letter organizations are advised by faculty and chapter advisers. The coordinator of Greek Affairs also provides assistance with Fall recruitment for the sororities, Greek Week, Greek Fest, Greek Council, Greek Alumni Council and Homecoming activities in which the members participate. Greek-letter organizations provide opportunities for sisterhood/brotherhood, philanthropic events, social activities, scholarship and leadership. Joining a Greek-letter organization provides you, the student, with a wide array of transferable skills useful in your life and future career.

Student Bar Association

The Student Bar Association represents and advocates the interests of the student body in matters pertaining to the Cleveland-Marshall College of Law by allocating funds to duly recognized student organizations of the College of Law and coordinating and promoting programs and activities for students of the College of Law. SBA consists of a Senate of five executive officers and Student Senators from each of the law divisions. Student Bar organizes activities such as the annual Barrister's Ball, fundraisers such as the T-shirt Sale and Book Sale, and various educational and social opportunities for the law student body. Elections are held annually at the end of the spring semester. The Student Bar Association is located in the Law Building. Its phone number is 216-687-2339.

Student Government Association

- Go to the Student Government Association website

The Cleveland State University Student Government provides an open forum for students to formulate their beliefs and voice their concerns to the University Board of Trustees, administration and faculty. SGA also offers funding to CSU student organizations, selects students to serve on university committees, and runs the Print Shop (copy center) located in Student Center 124. Student Government exists as two branches: the executive and the legislative branches. The Senate (legislative branch) is composed of more than 25 elected student delegates, each enrolled in eight or more credit hours, who represent each class and each college at Cleveland State. The Executive Branch consists of the president, vice president, treasurer, and secretary. Elections are held in the spring term. Student Government offices are located in Student Center #123. Phone 216-687-2262.

Student Media

- Go to the Student Media website

Student publications provide students with excellent opportunities for experience in writing and editing a literary magazine or newspaper. These publications are financed in part by general fees and are edited by students who are selected by the publication staff members. Publications include:

The Cauldron, a weekly newspaper offering news, sports, culture, and opinions that impact CSU students and the surrounding community. Students are needed as writers, editors, photographers, advertising reps, and more. (687-2270) www.csucauldron.com

The Vindicator, a monthly multicultural magazine presenting in-depth articles, news and opinions about our diverse campus and Cleveland community. Students are needed as writers, editors, photographers, advertising reps, and more. (687-2118)

Whiskey Island Magazine, a literary publication featuring poetry, prose, graphic arts, and photography. Students are needed as editors and readers. (687-2056) www.csuohio.edu/class/english/whiskeyisland/.

The Gavel, Cleveland-Marshall's award-winning newspaper covering the issues that affect law students at CSU. Students are needed as writers and photographers. (687-4533) www.law.csuohio.edu/students/gavel

In addition to the publications, CSU also boasts **WCSB 89.3 FM**, the student-run radio station. For over 30 years, WCSB has offered the Cleveland community a wide variety of alternative music programming, ranging from indie rock to classical, reggae to fusion and anything else not found on commercial radio. In addition to music, WCSB airs a variety of public affairs shows offering insight into the issues of the day. Students interested in alternative programming are encouraged to apply. (687-3523) www.wcsb.org

List of Recognized Student Organizations

- Go to online list

An up-to-date Student Organization Directory of recognized student organizations is available in the Department of Student Life (MC 106), online at http://www.csuohio.edu/studentlife/studentorgs/orglist.html, and in the Viking Planner. To contact our student organizations, you are welcome to use their student organization mailboxes located in the Department of Student Life, or you may contact the organization via e-mail or phone. Contact information is available within the Student Organization Directory, online or within your Viking Planner.

Center for Leadership & Service

- Go to Center for Leadership & Service webssite

Students get involved with Student Leadership & Service for many reasons. They want to develop career-oriented skills, contribute to improving the Cleveland community through service projects, broaden their awareness of social and global issues and contribute to workable solutions, develop the practice of good citizenship, reflect on experiences for personal growth and build understanding and respect for other perspectives. The Student Leadership Academy/Leadership Development Seminar is a great way to begin the exploration of leadership and service over the course of several Saturdays throughout the semester. Major leadership and service events are offered each semester as well as a wide variety of leadership workshops and service opportunities. The center offers free leadership self-assessments, helps match students to community service opportunities, and works with students one on one to help them develop personalized development plans. More information, including a listing of upcoming events, can be found online at https://www.csuohio.edu/studentlife/leadserve/index.html or by e-mailing leadership@csuohio.edu. Get connected to service right here in the Cleveland area by utilizing our service agency online matching service available at http://www.csuohio.edu/studentlife/leadserve/service/iServe.html, email service@csuohio.edu, or call 216-687-2048.

Veteran Student Success Program

- Go to VSSP website

Veteran Student Success Program is designed to assist military veterans with their transition from soldier to civilian to student.

Judicial Affairs

- Go to Judicial Affairs website

The Judicial Affairs office exists to provide a safe campus environment for the entire university community. Through the trustee-approved policies called the *Student Conduct Code*, students involved in misunderstandings with other students, faculty, staff or administration can discuss informal and formal resolution options. The *Student Conduct Code* thoroughly explains the due process procedures for incidents that violate university policies. A copy of the code is available in the Department of Student Life, located in Student Center 106 or on the Web at http://www.csuohio.edu/studentlife/StudentCodeOfConduct.pdf

Resources and Facilities

Career Services Center

- Introduction
- Career Coordinators
- Choices Planner
- Sloan Career Cornerstone Series
- Career Conversations and the Greater Cleveland Connection
- LINK Program
- CSC's Additive Career Preparation Courses
- America Reads
- Cooperative Education Program
- Clevelandintern.net
- Biotechnology
- Project Springboard
- Senior and Alumni Services
- Go to Career Services Center website

Introduction to the Career Services Center

Central to the university experience is career exploration and planning in relationship to academics. In order to complete this introduction to personal and professional development, a student will also develop knowledge of job-search strategies, marketplace realities, and skills specific to his/her field. A full range of student-focused programs and confidential services are available to all Cleveland State University students from the first year through graduation and into alumni status. Students are able to visit the Career Services Center as often as they wish at Rhodes West 280, or call us at 216-687-2233 to make an appointment with a career professional. Other information can be obtained by visiting our website at: www.csuohio.edu/offices/career/.

Career Coordinators

Students have the option to begin meeting with a career coordinator as early as their first semester. Students can familiarize themselves with ways to explore how their interests, abilities, experiences and values relate to their academic studies and career preparation. Our career coordinators are assigned to assist students in specific majors for which they have developed competencies. Call the Career Services Center to make an appointment with a career coordinator who specializes in your major. We have a coordinator who specializes in working with students who are undecided as well.

Choices Planner

- Go to the Choices Planner information website

Choices Planner is a computer-based program that allows students to explore and assess their interests, skills, aptitudes, and values. By using this system along with a follow-up meeting with a career coordinator, students learn how their choices relate and how understanding their personal characteristics will help them begin to make an informed career decision.

Sloan Career Cornerstone Series

The Sloan Career Cornerstone Series is a program designed to assist students interested in engineering and other technical programs in their career decision-making process. By using the Sloan program, students learn

more about the differences in various technical careers, along with the skills and specializations they may need to develop.

Career Conversations and The Greater Cleveland Connection

- Go to Career Conversations website

To complement Choices and Sloan, as well as the career courses, students have the opportunity to meet individually with alumni and other professionals to learn how academic studies and career development work hand-in-hand. Please see a career coordinator for more information.

The Greater Cleveland Connection

The Greater Cleveland Connection enables students to volunteer or to intern in areas of career interest. Students should see their career coordinator for more information.

LINK Program

- Go to LINK Program

Career Services Center's Additive Career Preparation Courses

CSC 121 takes students on a guided exploration of academic majors and career choices. It is recommended that students enroll in CSC 121, Career Orientation, in their second semester. This course fulfills the course requirement for undergraduate participation in the Cooperative Education Program and is recommended for students who wish to explore career options or validate their career choice. This is a one-credit-hour course.

CSC 224 is a three-credit-hour course designed to help students explore the world of work, their skills and interests, job-search strategies, and the relationship between various college majors and careers as well as develop a career portfolio. This course is highly recommended for undeclared/undecided students. This course fulfills the course requirement for undergraduate participation in the Cooperative Education Program.

CSC 321 provides for maximum graduation preparation with minimum anxiety. It is recommended that students register for CSC 321, Employment Strategies, in their junior or senior year or during their graduate program. CSC 321 helps students develop effective job-search strategies. This course fulfills the course requirement for undergraduate participation in the Cooperative Education Program. This is a one-credit-hour course.

America Reads

- Go to America Reads postings

Cleveland State students can be placed as reading tutors in Cleveland elementary schools or libraries. Those students with a federal work study award are eligible to apply. America Reads tutors also qualify as Cooperative Education Program participants.

Cooperative Education Program

- Eligibility
- Academic Credit
- Administration
- Co-Op Job Placement and Scheduling

Introduction

Through the Cooperative Education Program, students can explore career and academic options, pretest career choices, put academic theories to work with professionals in their field, polish personal and professional skills, and earn money to contribute to their educational costs. Cleveland State University offers the Cooperative Education Program in all undergraduate fields of study and most graduate programs. Co-op students work in positions that are closely related to their academic areas of study and career interests. Work experiences are typically scheduled during alternate semesters beginning in the sophomore year. In some cases a parallel schedule of part-time work is available.

Co-Op Eligibility

There are three basic requirements for admission to the Cooperative Education Program: students must have earned at least 30 semester hours, be in good academic standing prior to the first assignment, and have completed the one-credit-hour CSC 121 Career Orientation course. Transfer students are also eligible to participate in co-op.

Application for admission usually is made in the freshman year or, in the case of a transfer student, during the first semester on campus. Application requirements are satisfied when the student completes CSC 121, which presents detailed regulations and procedures for obtaining the greatest value from the co-op program and aids students in clarifying their career goals and sharpening their job-search skills.

Co-Op Credit

All co-op students are required to register their co-op experience with the university. CSC 300 provides for academic credit in recognition of the educational value of the cooperative education experience. In this way, one credit is given for each co-op experience completed. This credit is not counted toward the number of hours needed for graduation, but it will add academic hours to a student's credit total. The academic credit maintains a student's full-time status while on a co-op job. CSC 400, a non-credit option, is also available. However, CSC 400 does not maintain a student's full-time status.

Co-Op Administration

The Cooperative Education Program is administered by the Career Services Center. During the Career Orientation course, students are assigned to a career coordinator. The coordinator acts as a liaison between the university and the working community, developing co-op opportunities and maintaining an effective rapport with all program participants.

Co-Op Job Placement and Scheduling

Co-op employers include a wide range of businesses and industries, governmental, social service agencies, and school systems. Jobs are developed with employers who will provide a meaningful work experience, the standard rate of pay for the work being performed, and a careful evaluation of the student at the completion of the work semester.

Coordinators help students in the entire placement process, providing counseling and contacts. Students then apply directly to the employer and are hired on their own merits. Students must register for CSC 300 or CSC 400 (Co-op Field Experience) during each semester in which they have a work assignment.

The co-op schedule, showing the semesters the student will be in school and when the student will be at work, is prepared by the coordinator in consultation with the student and the appropriate academic adviser. The co-op student typically alternates periods of being at work and at school from the end of the freshman year to the beginning of the senior year. Two students are often paired with the same employer, thereby keeping a designated co-op position filled at all times. Variations in length and pattern of co-op schedules are considered on an individual basis with many factors being considered.

Students enrolled in the Cooperative Education Program are expected to comply with all of the policies, rules, and procedures governing the program, which are explained further in the Career Orientation course.

Biotechnology

- Go to Biotechnology Certificate website

The Career Services Center has a special program targeted for students interested in entering the biotechnology industry. Co-ops and placements are actively sought by the many biotechnology companies in the Cleveland area. Additionally, the center coordinates the academic Biotechnology Certificate programs offered through the colleges of Science, Business Administration, and Engineering. For more information, call Career Services or visit www.csuohio.edu/offices/career/biotechnology.

Project Springboard

- Go to Project Springboard website

Project Springboard offers career counseling with a specific focus on cooperative education to Cleveland State University students who have a disability. The goal of this program is to aid in defining career goals and help students gain degree-related work experience while earning their degree. Contact 216-687-2233 for more information.

Senior and Alumni Services

For students approaching graduation, the Career Services Center provides Senior and Alumni Services. Senior and Alumni Services are available to all undergraduate students with more than 90 academic hours. Graduate students are eligible for these services throughout their entire graduate program. Eligibility continues after graduation and the services continue to be free of charge for the first year after graduation. Services to seniors and alumni include CSUcareerline, our Internet-based system that provides access to hundreds of full-time degreed positions available at local and national employers. Seniors and alumni are also eligible to participate in the On-Campus Recruiting Program, career fairs, and other various events held throughout the year. The center's Career Resource Library provides graduating students with directories, videotapes on career opportunities, career-path resources, connection to the Internet, and information on hundreds of companies.

For additional information on any of these programs and services, call or visit the

Career Services Center
Rhodes West 280
216-687-2233
www.csuohio.edu/offices/career/

The Center for eLearning

Supporting faculty and students engaged in elearning courses or programs.

The Center for eLearning provides instructional design support, media development services, program coordination, and student services development for elearning at Cleveland State University. Our goal is to promote the development of more educational opportunities and access for learners through the development of elearning programs.

For Prospective Students

Discover how CSU can make a difference in your life.

For Current Students

Find student guides on getting help and important information on eLearning at CSU.

For Faculty

Faculty guides, Blackboard training, and additional resources are available online for instructors.

CSU Campuses

With campuses and partnership locations throughout Northeast Ohio, Cleveland State makes it easy to earn a degree, complete a certificate or take the courses you need to get ahead.

Downtown
Eighty-five acres of classrooms, labs, libraries, recreation facilities and student housing make up our thriving main campus, located just east of downtown Cleveland. Click here for information on our downtown campus.

East Center
The CSU East Center Campus in Solon is closed as of August 31, 2011. If you have any questions please contact Campus 411 at 216-687-5411.

West Center
Expand your horizons at West Center, opened in 2003 and serving suburbs on the West Side. You'll find us in Westlake, just off I-90 at the Columbia Road exit. Click here for information on West Center.

Lakeland Community College Partnership
Stay on the Lakeland campus and become a Cleveland State student by transferring seamlessly into any one of our bachelor degree programs. Click here for information on our LCC Partnership.

Lorain County Community College Partnership
Through the Lorain County Partnership you may pursue a variety of degree programs that can be completed on the LCCC campus, conveniently located in the University Center Building. Click here for information on our LCCC Partnership.

CSU/Tri-C Brunswick Partnership
The CSU/Tri-C Brunswick Partnership provides the opportunity to increase your scope of education by obtaining a university degree at the Brunswick campus. Click here for more information on our Tri-C Brunswick Partnership.

Other Locations
Cleveland State offers a wide range of courses at libraries, high schools, career centers, hospitals and other colleges.Click here for information on our other locations.

Resources and Facilities

Orientation and Family Services

- Mandatory New Student Orientation
- Transfer Orientation
- Family Services

Once a student is accepted to Cleveland State University, attending the university's orientation program is the first step to becoming an official CSU student. Orientation will prepare the student for the start of classes and help students learn about the CSU campus and its services. All orientation programs are one-day programs, and students are divided into small groups led by well-informed upper-class students, the CSU Orientation Leaders. The orientation staff is located in EC 100 and can be reached by e-mail at orientation@csuohio.edu or by phone at 216-687-9379. More information is available on the Orientation website: http://www.csuohio.edu/orientation.

Mandatory New Student Orientation

New Student Orientation is a mandatory two-day program for all first-year CSU students. Day One occurs throughout the summer and includes academic advising, course registration, campus tours, Viking ID cards, and sessions on financial aid, student involvement, parking, safety and much more. Day Two occurs on the Saturday prior to the semester starting and includes moving into the residence halls, attending New Student Convocation, meeting with the academic colleges, participating in the first-year picnic and more. For students whose first semester at CSU is the spring semester, orientation programs occur from December to January. Each new first-year student will have a hold placed on his or her account that prevents course registration until the mandatory orientation program has been completed.

Transfer Student Orientation

Transfer Student Orientation is an optional program for new CSU transfer students. Since transfer students have already attended another institution, Transfer Student Orientation is a streamlined process that includes getting your ID card, a campus tour, and information on academics, financial aid, tuition, parking, career services, student life and more. For students unable to attend the on-campus program, we offer Online Transfer Orientation located on our Orientation website. For students attending fall and summer semesters, orientation programs occur during the summer. For students attending spring semester, orientation programs occur during December and January.

Family Services

Family members play a vital role in the academic success of their students. To assist family members in their transition, we offer the following services:

Parent Connection E-newsletter: a quarterly newsletter emailed to parents & family and available on the Parent & Family website
Parent Ambassadors: A parent volunteer group
Parent and Family member events and outings
Family Orientation: join your student when they attend Orientation and attend sessions designed especially for family members
Parent and Family website: www.csuohio.edu/parents

Resources and Facilities

Campus Support and Facilities

- Faculty
- Resources Home
- Campus Support Services
- Bookstore
- Child Development Center
- Conference Services
- Dining on Campus
- Housing
- Parking Services
- Recreation Center
- VikingCard ID Office
- Wolstein Center

- Go to Campus Support Services website

Campus Support Services is here for CSU —

We are the Bookstore, Child Development Center, Conference Services, Dining Services, Parking Services, Student Center (future), Recreation Center, Residence Life, Viking Card and Wolstein Center.

Bookstore

- Go to Bookstore website

The CSU Bookstore is located in the new student center, first floor. It is the official bookstore for the university, selling used and new textbooks based on faculty book requests, reference books in professional fields, bargain books, general reading books (bestsellers are discounted), school and office supplies, Cleveland State gear, stamps, greeting cards, gift items, snacks, and soft drinks.

The bookstore buys textbooks back at the end of each semester. If the book will be used for a class during the following term, the student can receive as much as 50% of the original purchase price. Books are re-purchased at higher prices until the term's estimated demand is filled. Once the demand is filled, textbooks are re-purchased at wholesale prices.

The bookstore accepts VikingCash, cash, checks made payable to the CSU Bookstore, Visa, MasterCard, Discover, American Express, and most debit cards. Picture IDs are necessary for all noncash transactions, refunds and book buyback. Online service includes textbook purchases, faculty assistance, and an online CSU Gear shop.

Call 216-687-2128 for more information.

Bookstore hours

Child Development Center

- Go to Child Development Center website: http://www.csuohio.edu/services/childcare

Cleveland State University is committed to providing a high-quality, affordable, on-site child care center. Full- and part-time child care services are available for daytime and evening hours to students, faculty and staff who are parents or legal guardians of children ages six weeks to 12 years.

The CSU Child Development Center, *managed by the YMCA of Greater Cleveland*, provides safe, nurturing, high-quality care so you can have peace of mind while you work or attend classes.

Enrollment preference will be given to enrolled Cleveland State students. The program offers care, supervision and early education of children, and will ensure the optimal physical, social, emotional and intellectual development of each child based on the standards set forth by the National Association for the Education of Young Children accreditation system.

Conference Services

- Go to Conference Services website

Conference Services is responsible for requesting use of all facilities on campus. We are a centralized and cooperative effort among campus support departments dedicated to providing complete event planning to guarantee successful programs. Conference Services also provides comprehensive information regarding student events, services, and activities occurring at Cleveland State.

Dining on Campus

- Go to Dining Services website

Dining Services offers extensive dining options across campus, and strives to provide a variety of healthy food options while creating an engaging and enjoyable dining experience.

The new Student Center features six all new retail dining options including Bar Uno, Chop'd & Wrap'd, Quiznos Sub, Outtakes Quick Cuisine, Uno Express and The Atrium Cafe!

The Viking Marketplace is all-you-care-to eat restaurant dining designed to give students the maximum variety. From traditional comfort food to vegetarian, students will experience state-of-the-art dining choices. The Viking Marketplace is open to the public.

Students can also enjoy several other dining options such as Wheat Street Deli at the College of Business, The Link Coffee Cart on the Innerlink in the Law Building, The Midway Café on the first floor of Main Classroom and Fenn Shoppe on the first floor of Fenn Tower. These dining locations offer fresh brewed coffee, grab and go sandwiches and salads, pastries and other choices to keep students going through the day.

Elements Bistro on Euclid (www.elementsoneuclid.com), located in the Parker Hannifin Administration Center, is a full service restaurant serving lunch for dine-in or carry out service. Elements is also available to host campus events on the evenings and weekends.

CSU Dining is the preferred caterer for all campus events. For menu suggestions please log on to www.csu.catertrax.com.

Residence Life

- Go to www.csuohio.edu/services/reslife

Euclid Commons, Fenn Tower and Heritage Hall are Cleveland State's on-campus housing communities. All communities offer fully furnished units, a great location, quiet study areas and other great amenities that create the right environment for your academic success.

Euclid Commons provides students a variety of living-learning opportunities. Students will find themselves in the center of campus activities and will also enjoy close proximity to a parking garage. Within the community, apartments are available fully furnished with cable television and high-speed Internet. Community features include study areas, game room, computer lab, and laundry center.

The historic Fenn Tower features a restored entry lobby and several remodeled ballrooms and common areas. Apartments are available fully furnished with cable television, high-speed Internet, and some with kitchenettes. Outside the units, community amenities such as a game room with billiards and big-screen television, fitness center, theater room, laundry center and convenience store merge the building's classic design with modern day function.

Located in a historic district on the southern edge of the CSU campus, Heritage Hall offers convenient, apartment-style living in 148 efficiences and one-and two-bedroom suites. Heritage Hall houses upperclass students only (minimum sophomore status or 21 years of age). Apartments are available fully furnished with cable television and internet. Each unit has a private bath, full kitchen and is fully furnished. Heritage Hall is adjacent to the new South Garage and just one block away from the entertainment and sports that abound at the Wolstein Center.

All residents participate in a convenient food service plan and can choose a meal plan from a variety of options.

Requests for information and applications are available in the Department of Residence Life, located in the lobby of Fenn Tower, 1983 East 24th St. For more information, please call 216-687-5196, or visit www.csuohio.edu/services/reslife/.

Parking Services

- Go to Parking Services website

Parking is available to any student who registers with the Parking Services office and obtains either a daily pay-per-day hangtag or a prepaid parking hangtag.

The daily hangtag allows designated access to Cleveland State University lots for $4.00 per day (hangtag is free).

The prepaid hangtag holders are entitled to park in the core of campus at any time.

The Parking Services office is located in the Chester Building Annex, Room 128. A student must provide the license plate numbers and a photo ID to obtain a hangtag.

Students are responsible for observing the regulations governing parking on campus, as listed in the parking guide and campus map distributed with your parking registration. Click on www.csuohio.edu/services/parking for complete information.

The Office of Parking Services also offers emergency road service to parking patrons, and student employment opportunities.

Parking Services hours of operation are:

Monday - Friday, 8 a.m. - 5 p.m.

Extended hours are maintained during the first week of classes.

For more information, call 216-687-2023.

Recreation Center

- Go to Recreation Center website

The much anticipated 100,000-square-foot **Cleveland State University Recreation Center**, located at 2420 Chester Ave., opened fall semester, 2006. The building houses a main gym, a multipurpose gym, a fully equipped weight training area, a fitness area outfitted with a variety of cardio equipment, multipurpose rooms, racquetball and squash courts, and a seventh-of-a-mile indoor running track. A juice bar, pro shop, and an underground 50-space garage for metered, short term parking are also a part of the facility's amenities.

The new Recreation Center is connected to the current Physical Education Building, providing convenient access to the swimming pool in Busbey Natatorium. All CSU students (taking 8 credits or more) who have been assessed and paid the activity fee to support the Recreation Center automatically have membership without any additional charge. All other students will be charged for membership.

Cleveland State faculty and staff may purchase a Recreation Center membership, and membership options for alumni and the community are also available.

The center is home to all university intramural programs such as flag football, basketball, volleyball, dodge ball, kickball, soccer, tennis, badminton and table tennis. Sports clubs may also use the facility for their events.

Operational management is provided by a company under contract to the university.

Intramural Sports

- Go to Intramural Sports website

The Intramural Sports Program at Cleveland State University provides a variety of leagues and tournaments throughout the year. These contests emphasize mental, social and physical well-being. The Intramural Sports Program is an all-inclusive operation. Every student registered for classes is eligible to participate. The program is also available to CSU faculty and staff as well as to any other Recreation Center member. Intramurals seek to build community amongst CSU students, faculty, and staff through friendly competition. Good sportsmanship is valued above all else. For more information, contact the Intramural Sports Program at 216-802-3200 or e-mail intramurals@csuohio.edu.

VikingCard ID Office

- Go to the VIKINGCARD ID Office website

Cleveland State University provides every student with an identification card at the time of class registration. It is called the Viking Card. The Viking Card is the official campus identification card for all CSU students, faculty and staff. It is also your key to programs and services across campus including free tickets to all athletics events. The Viking Card Office is located in Main Classroom Room 112. The Viking Card Office phone number is: 216-875-9888, website: www.csuohio.edu/services/vcard.

Wolstein Center

- Go to Wolstein Center website

The Wolstein Center at Cleveland State University plays host to a myriad of special events, including contemporary concerts by international recording artists, nationally acclaimed family shows, professional and amateur sporting events, trade shows and conventions, consumer shows, and a vast array of community and civic functions. The center is also the home of the Division I, Horizon League — CSU Vikings Men's and Women's Basketball games.

The arena is a state-of-the-art, full-service, multipurpose facility that is capable of seating up to 15,000 people for special events. All new scoreboards, concession stands, VIP Loge, LED Marquee, and the Backstage Café ensure that guests will enjoy their visit. The Wolstein Center has made a commitment to bring the best of world-class entertainment, hosted in a first-class sport/entertainment facility, to all of Northeast Ohio.

The Conference Center has over 10,000 square feet of conference and annex space which has the flexibility to host banquets, receptions, and conferences to serve a wide variety of needs. The facility has two large ballrooms that can be divided into smaller rooms for more intimate gatherings. The Conference Center also has a full range of audiovisual equipment available for special events. For larger banquets, trade shows, and conferences, the Arena Grand Ballroom can host events up 2,000 guests. The in-house caterer, Ovations, provides a full line of catering services for events in the Arena and Conference Center.

For more information or to reserve a date, click on the Wolstein Center link, or call at 216-687-9292.

The Wolstein Center at Cleveland State University is located on the campus of Cleveland State University, between East 21st and East 18th streets and Carnegie and Prospect avenues. For more information, internship programs, and employment opportunities, call 216-687-9292.

The Wolstein Center is managed by Global Spectrum. For additional company information, visit www.global-spectrum.com (link opens in new window).

Banking Service

Full-service ATMs are available in the Student Center Atrium and in the College of Business Administration lobby.

Off-Campus Housing Service

- Go to Off-Campus Housing Service website

The university provides an off-campus housing listing service to connect students interested in living off-campus with property owners who are interested in attracting students as tenants. We maintain an online list of properties that are for rent such as houses, apartments, rooms in a house, roommate situations, etc. This is a free service for students/faculty/staff as a source of information only.

Cleveland State University does not recommend one rental property over another and is not responsible for any decision that is made to enter into a rental agreement on the part of students/faculty/staff or any person who accesses this Web site.

University Police

- Go to University Police Web site

The primary function of the University Police is to preserve peace and protect life and property in a manner that is sensitive to the rights of the individual and the values of the university. The Cleveland State University Police Department is located in the annex of the Chester Building, 2300 Chester Ave., and operates 24 hours a day, seven days a week, stressing patrol, crime prevention, and community service. The Community Service Officer program operates under the jurisdiction of the police. The Community Service Officers provide safety escorts from all campus locations to bus stops, vehicles, the residence halls, and to all campus locations. The safety escort service is available Monday through Friday from 5:30 p.m. to 11:30 p.m. and Saturday and Sunday from 7 a.m. until 11:30 p.m. during fall and spring terms. During summer term and between terms, this service is available until 11 p.m. Call extension 2020 from any campus phone to request an escort, or from a pay phone or cellular phone dial 216-687-2020. In emergencies, reach Cleveland State Police by dialing 911, or on cellular phones dial 911 and ask for the Cleveland State University Police, or simply lift the receiver and depress the phone button designated "Police/Fire" on campus phones. Blue Light Emergency Phones, located at various sites throughout the campus, ring directly into the University Police Dispatch office when the receiver is lifted or when the button is pressed. The police also facilitate the activities of Campus Watch, Cleveland State's nationally recognized volunteer crime prevention organization.

Campus Safety Report

- Go to Campus Safety Report on the Web

In compliance with the federal Crime Awareness and Campus Security Act of 1990 and the Student Right-to-Know and Campus Security Act (P.L. 101-542), the university produces an annual report on campus safety and crime rates. For a copy of this report, contact the Cleveland State University Police Department, located in the annex of the Chester Building, 2300 Chester Ave., 216-687-2020.

Center for Teaching Excellence

- Go to Center for Teaching Excellence website

The Center for Teaching Excellence (CTE) is located in room 212 of the Main Classroom Building. Its purpose is to assist faculty throughout the university in improving their existing teaching skills and acquiring new teaching techniques, including, but not limited to, the use of evolving information technologies. To this end the CTE offers a wide variety of training sessions and workshops for faculty; sponsors external speakers and symposia on teaching-related topics; provides one-on-one consultation and mentoring with individual faculty members; and disseminates internal grant funding to faculty for use in teaching-related projects.

For more information, contact the CTE via e-mail at cte@csuohio.edu, or call 216-687-5502.

Writing Center

- Go to Writing Center website

The university Writing Center, located in the Michael Schwartz Library, RT 124, behind the Reference Desk, provides several opportunities for students of all levels to improve their writing. Any student can enroll in a two-credit-hour course (English 105 or 106) that gives extra support throughout the semester in a combination of eight individual tutorials and eight group workshops. This course is Pass/Fail and counts toward graduation.

Any student can also call to schedule a 30-minute tutorial on any aspect of the writing process — from planning, researching, drafting and revising to editing.

Students can drop in for a tutorial, or they can leave a paper and schedule a phone conference if they cannot visit the center due to their schedules. Students can also receive online assistance by e-mailing the director at m.murray@csuohio.edu. We cannot promise immediate service; we hope to have your text reviewed within three business days. We have a very large number of tutorials (last semester we had almost 2,000), which is why we cannot promise immediate service, even though we would like to offer it.

Visit our Web site, www.csuohio.edu/academic/writingcenter/, which has links to online handouts on grammar and writing on the link to Writing Across the Curriculum (WAC).

Students can also work on nearby library computers, consult with librarians, or use our collection of handbooks and style manuals.

Tutors are graduate and undergraduate students in English who enjoy talking about writing and see each tutoring session as a learning session. Call 216-687-6981 for an appointment or stop by Library 124 for a bookmark with our hours. The center is open Monday-Thursday 9:30 a.m.-7 p.m. and Friday 9:30 a.m.-4 p.m.

Division of Institutional Diversity

On this page:

- Back to General Information
- Office of the Vice President
- Office of Diversity & Multicultural Affairs
    - AHANA Peer Mentoring Program
    - Gay, Lesbian, Bisexual and Transgender Student Services
    - STARS Program
- Go to Division of Institutional Diversity website

Office of the Vice President for Institutional Diversity

Cleveland State University is a leader in the state in enrolling and graduating minority students and is a top producer of African American masters graduates. CSU has been recognized nationally in Diverse Issues in Higher Education Top 100 and highly recommended by the Hispanic Outlook. CSU is recognized as a leader in workforce, broad, senior management and supplier diversity by the Cleveland Commission on Economic Inclusion and has the largest percentage of diverse faculty among Ohio public universities.

The Division of Institutional Diversity has university-wide responsibility to advance diversity, opportunity and positive race and community relations. Program initiatives focus on enriching the campus environment through educational experiences that enhance positive race and human relations; retaining minority students, faculty, and staff; supporting academic and non-academic diversity initiatives; identifying and responding to issues and concerns related to minority groups; reviewing institutional policies, procedures, priorities and programs related to serving the diverse university community; and collaborating with the urban community through outreach and service.

The Division of Institutional Diversity is comprised of the Office of the Vice President and the Office of Diversity and Multicultural Affairs (ODAMA). Major retention, achievement and student support programs include the AHANA Peer Mentoring Program (**A**frican American, **H**ispanic American, **A**sian American and **N**ative **A**merican), STARS (Student Achievement in Research and Scholarship) undergraduate research program, and Gay, Lesbian, Bisexual and Transgender (GLBT) Student Services.

The Vice President for Institutional Diversity is the chief diversity officer for the university. The Office of the Vice President focuses on the advancement of institutional diversity, community relations, diversity training, diversity outreach and retention and campus climate. For more information, please visit us in Rhodes Tower 1201 or contact us at 216-687-9335.

E-mail: diversity@csuohio.edu.

Office of Diversity & Multicultural Affairs (ODAMA)

- Go to Office of Diversity & Multicultural Affairs

The Office of Diversity and Multicultural Affairs focuses on advancing the retention, achievement and graduation of multicultural students and offers multicultural programming. Major annual events include Hispanic AwarenessMonth, Native American HeritageCelebration, Urban Community Forum, and Asian Awareness Celebration, the Salute to Black Graduates and Celebration of Latino Graduates. The office is administratively responsible for the AHANA Program (**A**frican American, **H**ispanic, **A**sian and **N**ative **A**merican), STARS (Student Achievement in Research and Scholarship), an undergraduate research program, and Gay, Lesbian, Bisexual and Transgender (GLBT) Student Services.

The Office of Diversity and Multicultural Affairs is located in Rhodes Tower 1254 and may be reached by calling 216-687-9394.

Gay, Lesbian, Bisexual and Transgender Student Services (GLBT)

- Go to Gay, Lesbian, Bisexual and Transgender Student Services website

GLBT Student Services, located in Rhodes Tower 1254, provides innovative and select programming to the CSU community and serves as a resource and information center for gay, lesbian, bisexual, transgender, and questioning students and their allies. The Safe Space program enables faculty, staff and students to show support for GLBT students by displaying the Safe Space symbol. A student listserv keeps students informed and connected. For more information on GLBT Student Services or any of its programs contact us at 687-9265 or e-mail glbt@csuohio.edu or visit the website at http://www.csuohio.edu/offices/odama/glbt/.

Undergraduate Admissions

On this page:

- Campus Visits
- Contact Information
- Enrolling
    - First-Time Freshman
    - Transfer
        - Applicants
        - Transferring Credits
        - Transfer Guides, Articulation/ Dual Agreements
        - Go to Transfer Module (TM)
        - Appeals Process
    - Returning Cleveland State Students
        - Good Standing
        - Dismissed
    - Transient
    - Non-Degree
    - Post-baccalaureate
    - High School Options
        - PSEOP
        - Viking Bridge to College
    - Active Minds/Project 60
    - International
    - Special Programs
- Application Fees
- Deadlines & Notification
- Standards
- Foreign Language
- Placement Examinations

Campus Visits and Contact Information

The Office of Undergraduate Admissions offers information sessions and campus tours daily and on select Saturdays of each month. Information sessions begin at 10:00 a.m. and 2:00 p.mMonday through Friday with the campus tour immediately following. Schedule your visit here.

Saturday visitations begin with an information session at 10:00 a.m. with the campus tour immediately following. Individualized admissions appointments are also available for prospective first-year and transfer students. We recommend that prospective students and parents call ahead to schedule their visit with the Office of Undergraduate Admissions, allowing adequate time to receive a map to campus and parking information.

Please visit our Web site for a comprehensive list of visit days. The Office of Undergraduate Admissions should be your first point of contact for information to assist you in making your college decision and in applying to Cleveland State University. You can reach the Office of Undergraduate Admissions by calling 216-687-5411 or 1-888-CSUOHIO. Campus Location: Room 101, Euclid Commons.

Enrolling at Cleveland State

Select your admission type	
Non-U.S. citizens click here	
High School Student or Grad	
First-Year Freshman	• **High School Senior** interested in earning a bachelor's degree at Cleveland State. • **High School Graduate** or **GED recipient** with no college course work after receipt
Pre-College	• **High School Student** interested in taking college course work while enrolled in high school.
Some College Course Work	
Transfer	• **College student** interested in transferring to Cleveland State or returning to Cleveland State after attending another college.
Transient	• **College student** interested in taking one semester only (usually summer) at Cleveland State but NOT transferring.
Former Cleveland State	• **Former Cleveland State student** who has not attended another college since leaving Cleveland State.
Bachelor's Degree Completed	
Post-baccalaureate	• **College graduate** who has completed a bachelor's degree.
Project 60	• **Ohio resident age 60+** who wants to audit courses for free - no minimum educational level.
Non-Degree	• **Any high school graduate, GED recipient, or higher** who does NOT want to work toward a bachelor's degree but simply take courses.

First-Time Freshman Applicants

First-time freshman applicants are those individuals who have not completed any college-level course work after earning a high school diploma or its equivalency (GED). The following materials constitute a complete application from a first-time freshman applicant:

1. A completed Cleveland State application (online or paper)
2. An official copy of the student's grade transcript sent directly from the high school showing the applicant's graduation date
    - Students currently enrolled in high school are encouraged to apply early in their senior year prior to graduation. They may be admitted conditionally until their final, official transcripts showing the high school graduation date are received at Cleveland State.
    - If the applicant did not graduate from high school, an official copy of the student's GED scores must be sent directly from the Ohio Department of Education (or the state that has issued the diploma) in addition to an official copy of the high school transcript.
3. Official scores from either the American College Test (ACT) or the Scholastic Aptitude Test (SAT), if the applicant graduated from high school fewer than five (5) years prior to the application date.
    - Note that these scores may be sent directly from the testing agencies (ACT School Code 3270, SAT School Code 1221) or included on the student's official high school transcript sent directly from the high school.
4. A one-time, $30 undergraduate application processing fee.
5. Completed College-Prep form (current high school students only).

First-time freshmen applicants must meet the following criteria for admission:

- Completion of 13 units of the state-specified, core curriculum in high school
    - 4 units of English and
    - 3 units each of mathematics, social science, and natural science.
      (additionally, 2 units of foreign language and 1 unit of visual/performing arts are strongly recommended)
- Attainment of at least a 2.3 grade-point average (GPA) in high school
- Mandatory completion of the ACT or SAT with a minimum score of 16 or 770, respectively. Students taking the new SAT should earn a minimum combined score of 770 on the math and critical reading sections.

Students must meet the minimum criteria stated above for admission to Cleveland State University. The university may offer provisional admission to students who do not fully meet them. These provisional students will be limited to 12 hours or fewer each semester during their first year of enrollment at Cleveland State in an effort to promote their academic success. Students not qualifying for admission may complete specified course work at a regionally accredited, two-year or four-year college and reapply to Cleveland State..

Each of our academic colleges has specific admissions guidelines for direct entrance into the colleges. Students not meeting these requirements may be considered for pre-admission into one of our academic colleges. In some circumstances, students may be admitted into University Studies.

Transfer Applicants

Transfer applicants must earn at least a 2.0 cumulative grade-point average (GPA) at all previous colleges and universities combined in order to be admitted to Cleveland State University as a degree-seeking student.

A complete transfer application includes the following materials:

1. A completed Cleveland State application (online or paper).

2. An official copy of the applicant's grade transcript sent directly from all regionally accredited colleges or universities attended.
    - Note that applicants who have earned fewer than 12 semester hours of college credit must also send an official high school transcript directly from the high school. Applicants who graduated fewer than five years prior to their application date must also submit official ACT or SAT scores. This information will be considered in the admission process.
    - Students currently enrolled in another college or university at the time of their application may be admitted conditionally to Cleveland State based on their previous academic performance pending receipt of their final official transcript.
    - Applicants who are unable to obtain an official transcript from a previous college/university because of financial or other obligations may not be considered for transfer to Cleveland State. Failure to list attendance at a college or university on the admissions application may be grounds for admission revocation or dismissal from the university.
3. A one-time, $30 undergraduate application processing fee.
4. Undergraduate Admissions also recommends that transfer applicants send an official copy of their high school transcript in order to provide documentation of meeting Cleveland State's foreign language requirement.

Each of our academic colleges has specific admissions guidelines for direct entrance into the colleges. Students not meeting these requirements may be considered for pre-admission into one of our academic colleges. In some circumstances, students may be admitted into University Studies.

Transfer Guides, Articulation Agreements, and Dual Admissions Agreements

Transfer guides, outlining specific courses and curricula for students wishing to transfer to Cleveland State from Cuyahoga Community College, Lakeland Community College, and Lorain County Community College, can be requested from Undergraduate Admissions or online at: http://www.csuohio.edu/admissions/transfer/credits/index.html#ccguides.

Special Articulation Agreements and Dual Admissions Agreements with the three local community colleges above and additional colleges/universities can be requested from Undergraduate Admissions or found online at the Web address above.

Blanket Transfer Credit

A transfer student from a regionally accredited community college or a junior college who has achieved an Associate of Arts degree will qualify for blanket transfer credit of 60 to 64 semester credits provided that all credits used for that degree have been earned at a regionally accredited institution and the degree curriculum contains the following distribution of credits:

Subject	**Credit**
English Composition	6
Humanities	10
Natural Science and/or Mathematics	10
Social Sciences	10
General Education and program prerequisites	14-18

Other, including technical course work	10
Total	**60-64**

See also Acceptance of Transfer Credit in the Catalog Statement

Special Catalog Rights for Transfers from CCC, LCC, or LCCC

Under certain circumstances a student who transfers to Cleveland State University from Cuyahoga Community College (CCC), Lakeland Community College (LCC), or Lorain County Community College (LCCC) has special catalog rights.

If a student has earned an Associate of Arts degree from one of the three area colleges, and if at least 75 percent of the completed course work was chosen from Cleveland State transfer guides in effect at the time of entering the community college, the student may meet the curricular requirements as stated in the Cleveland State University *Undergraduate Catalog* either for the academic year in which admission was granted to Cleveland State or for the academic year in which the student was admitted to the community college. This is only if the Cleveland State *Catalog* was issued no earlier than two years prior to the student's admission to the university.

Correspondence Courses

A maximum of 10 semester credits may be granted for correspondence courses completed through a regionally accredited college or university or the Defense Activity for Nontraditional Education Support (DANTES).

Advanced Placement Credit

Advanced Placement (AP) Program credit is offered under the auspices of the College Board to high-school students who have completed an official advanced-placement course. Arrangements for testing are made through the high school in which the student is enrolled. Cleveland State grants freshman-year credit for each examination score of 3, 4, or 5. Credit is available in art, history, biology, chemistry, computer science, economics, English, French, German, history, mathematics, music theory, physics, political science, and Spanish.

Students, including transfer students, interested in receiving Advanced Placement credit from Cleveland State should have their official score report sent directly to the Application Processing Center in the Office of the University Registrar. The Registrar's Office administers the granting of credits for this program.

Transfer Module Grid

Transfer Module(TM)
Cleveland State University
(Semester Credit Hours)
(Updated/Effective: Fall 2009)

Areas	(A) Minimum General Education Requirements Applied to TM (24 sem or 36 qtr)	(B) Additional General Education Requirements Applied to TM (12-16 sem or 18-24 qtr)	(C) Interdisciplinary Hours Applied to TM within Areas I-V (Ohio Articulation & Transfer Policy: Appendix B)	General Education Requirements Beyond the TM for Graduation (Courses listed in this column are not guaranteed to transfer)
I) English/Oral Communication (Oral Communication - column B) Minimum 3 sem hours	4 hours ENG 101 and 3 hours ENG 102 or other approved TM courses (2-3 hours) *[Approved Courses: English]*			1. **Freshman orientation course (1 hour)** *[GenEd: Orientation]* 2. **Three Writing-Across-the-Curriculum courses of at least 1 credit hour each.** One course must be in the major program. Students may substitute one approved "Speaking Across the Curriculum" (SPAC) course for one of the WAC courses. *[GenEd: Writing]* 3. **Capstone Experience in the major (at least 1 credit hour).** 4. **At least one of the non-US courses in Social Sciences*or* Arts and Humanities must focus on Africa,**
II) Mathematics, Statistics or Formal Logic Minimum 3 sem hours	Two approved TM courses (6 hours) *[Approved Courses: Mathematics]*			
III) *Arts/ Humanities Minimum 6 sem hours	6 hours of approved TM courses from at least two different areas. At least one of the Arts and Humanities courses must focus on a society other than the US. *[Approved Courses: Arts/Humanities]*			
IV) *Social Science Minimum 6 sem hours	6 hours of approved TM courses from at least two different areas. At least one of the Social Science courses must focus on a society other than the US. *[Approved Courses: Social Science]*			
V) Natural Science Minimum	7 hours of approved TM courses, including one lab			

6 sem hours One lab course required	credit hour *[Approved Courses: Natural Science]*			**Asia, Latin America, or the Middle East** *[GenEd: Arts & Humanities; Social Science]*
(Additional) Social Diversity		**Social Diversity.** Two courses, min 3 hours each. A: one course must be African-American Experience B: one course must be US Diversity *[Approved Courses:African-American Experience and U.S. Diversity]*		
Sub-Total of Hours	31 hours	6		
Transfer Module Total Hours (Total of Columns A, B and C)	**37 Semester Hours** **The Transfer Module contains 36-40 semester hours or 54-60 quarter hours of course credit.** For the complete list of "approved" courses, go to:http://www.csuohio.edu/academic/tm/tmlist.html; For General Education Requirements courses beyond the TM, go to:www.csuohio.edu/academic/gened/; Click course links for course descriptions from the Undergraduate Catalog: www.csuohio.edu/undergradcatalog/courses/courses.htm.			**Courses listed in this column are not guaranteed to transfer**

Lists of Transfer Module (TM) Courses
(Based on GenEd08)
(Updated/Effective: Fall 2009)

- English
- Mathematics and Logic
- Arts and Humanities
- Social Science
- Natural Science
- Social Diversity
- Complete-on-one-page list

Transfer

Cleveland State University Appeals process for Transfer Students

Cleveland State University observes all the rules and procedures stipulated by the Ohio Articulation and Transfer Policy. In particular, we accept all the transfer courses of college level and their credits from other duly accredited public institutions of higher education in Ohio.

At Cleveland State University, we offer the following three stages of appeals that you may pursue in case you are not satisfied at some of our initial decisions on transfer credit applicability:

First Stage: File an appeal with The Advising Center within 90 days from receipt of this office's notification of your transfer-credit applicability. There isn't any particular form for this process; you just submit an explanation of your view, together with supporting material that you consider relevant. This office will respond to your appeal within 30 days from receipt of the appeal.

Second Stage: If you are not satisfied at the decision from the First Stage process, you may file an appeal with the University Petitions Committee. For this, you have to use and complete the specific form required by the committee. This committee will also respond to your appeal within 30 days.

Third Stage: If the Second Stage decision again is not to your satisfaction, the Cleveland State University Office of Academic Affairs will conduct a final institutional review of your case. If this review results in endorsing the earlier decisions on your appeal and if you challenge this judgment, you may exercise your right to file an appeal with the State Appeals Review Committee of the Ohio Board of Regents. If you opt to take up this State appeals process, the Office of Academic Affairs will provide you with the officer's name and the address to which appeals may be sent. This Third Stage process will be completed within 30 days from its beginning.

Returning Cleveland State Students in Good Academic Standing

Returning Cleveland State students who have not attended another university, and have not enrolled at Cleveland State for three or more semesters (including summer), may re-enroll by using the online Re-enrollment Form or contacting Campus 411. A student who interrupts his or her enrollment in the university for three or more consecutive semesters (including summer) must meet the university graduation requirements of the catalog in effect when she or he re-enrolls.

Returning Cleveland State Students Who Were Academically Dismissed

The New Dismissal Policy for students dismissed beginning Fall 2005

A student dismissed from the university who wishes to return may petition the desired college for re-admission after remaining out of Cleveland State University for one calendar year from the month of dismissal. A student is eligible for re-admission only once. In exceptional cases, a student's College Academic Standards Committee would review a petition for a waiver of the mandatory waiting period. If a student is dismissed for a second time and has experienced extraordinary circumstances, a petition can be sent to the University Petitions Committee for consideration of a possible second re-admission. Students should not assume that all petitions will be approved.

Returning students should comply with the following re-admission procedures:

1. Students who were academically dismissed from Cleveland State, but wish to return, first schedule an appointment with an adviser in the Cleveland State college to which they are seeking entrance – not necessarily the college from which they were dismissed.
    a. The college advisers explain re-admission criteria (e.g., number of semesters of nonattendance, GPAs, course requirements, etc.).
    b. Students who meet the criteria are encouraged to submit an application for re-enrollment.
    c. Advisers offer assistance in formulating alternative academic plans for students who do not meet the college criteria (e.g., attendance at a community college, change of major, etc.).
2. Students who have attended other institutions following dismissal from Cleveland State must submit the following directly to the Cleveland State University college in which they plan to enter no later than 15 working days prior to the first day of the semester for which re-admission is requested:
    a. A completed re-admission petition and
    b. Official transcripts from any other regionally accredited colleges or universities attended following dismissal from Cleveland State.
3. Cleveland State University's Academic Standards committees act on students' requests, and notify them in writing of their decisions. If approved, students will also be notified in writing of the conditions of their re-admission (e.g., credit-hour enrollment limits, minimum GPA, completion of specified coursework, etc.).
4. Cleveland State's colleges notify the Office of the University Registrar of their decisions to approve or deny student requests.

Policy for students dismissed up to and including Summer 2005

A student dismissed from the university who wishes to return may petition for re-admission after remaining out of Cleveland State University for at least two semesters. A student dismissed for a second or subsequent time must remain out for at least four semesters. Students should not assume that all petitions will be approved. A dismissed student may file only one petition for re-admission during any semester. In exceptional cases, academic deans will act on a petition for waiver of the mandatory waiting period.

Returning students should comply with the following re-admission procedures:

1. Students who were academically dismissed from Cleveland State, but wish to return, first schedule an appointment with an adviser in the Cleveland State college to which they are seeking entrance – not necessarily the college from which they were dismissed.
    a. The college advisers explain re-admission criteria (e.g., number of semesters of nonattendance, GPAs, course requirements, etc.).
    b. Students who meet the criteria are encouraged to submit an application for re-enrollment.
    c. Advisers offer assistance in formulating alternative academic plans for students who do not meet the college criteria (e.g., attendance at a community college, change of major, etc.).
2. Students who have attended other institutions following dismissal from Cleveland State must submit the following directly to the Cleveland State University college in which they plan to enter no later than 15 working days prior to the first day of the semester for which re-admission is requested:
    a. A completed re-admission petition and
    b. Official transcripts from any other regionally accredited colleges or universities attended following dismissal from Cleveland State.
3. Cleveland State University's college petitions committees act on students' requests, and notify them in writing of their decisions. If approved, students will also be notified in writing of the conditions of their re-admission (e.g., credit-hour enrollment limits, minimum GPA, completion of specified coursework, etc.).
4. Cleveland State's colleges notify the Office of the University Registrar of their decisions to approve or deny student requests.

Transient Students

Students are eligible to enroll at Cleveland State University as undergraduate transient students for one semester, typically summer, if they:

1. are currently undergraduate degree-seeking students at another college or university,
2. are in good academic standing at their home institution,
3. have obtained written permission from their home institution to attend Cleveland State on a transient basis, and
4. have successfully completed any applicable prerequisites for the course(s) in which they wish to enroll.

Transient students are NOT required to complete an application for admission through Undergraduate Admissions, but instead they complete the Transient Student Enrollment Request through the University Registrar Web site: http://www.csuohio.edu/admissions/guest/transient.html.

Therefore, the following conditions apply to transient students:

- registration as a transient student does not imply acceptance to the university as a degree-seeking student,
- financial aid is not available for transient students,
- Cleveland State University academic department approval must be obtained in order to register for 300- and 400-level (junior- and senior-level) courses,
- transient students are subject to the same registration (add/drop) and academic standing policies that apply to degree-seeking students, and
- fees are not charged for placement examinations.

To enroll as a transient student, the following materials must be submitted to the Office of the University Registrar:

1. A completed Transient Student Enrollment Request.
2. Written verification from the current degree-granting college/university of transient status eligibility, good academic standing and successful prerequisite completion. Usually, the transient student's academic dean or adviser submits this verification along with the courses that the home institution permits the student to take at Cleveland State.

Note that there is no application processing fee required.

Non-Degree Applicants

Non-degree applicants are those who wish to take undergraduate courses or earn a certificate at Cleveland State for personal interest or professional growth, but are not interested in pursuing an undergraduate degree program.

Non-degree applicant restrictions:

- Non-degree applicants must have graduated from high school at least one year prior to their enrollment.
- International students on an F-1 visa are not eligible to be non-degree students.

Non-degree student limitations:

- Scheduled to register for courses after degree-seeking students.

- Required to have departmental approval before registering for upper-level courses (numbered at the 300 and 400 levels).
- Not considered to be enrolled in a bachelor's degree program.
- Ineligible for student financial aid.

When non-degree students are ready to pursue a bachelor's degree program, they must reapply to Cleveland State as a degree-seeking student through Undergraduate Admissions at which time an additional application fee is not required.

A complete, non-degree application file includes:

1. A completed Cleveland State application for admission (online or paper).
2. A one-time, $30 undergraduate application processing fee.

Note that grade transcripts are not required of non-degree applicants but would be required at time of application for a degree-seeking program.

Post-baccalaureate Applicants

Applicants who earned a bachelor's degree from Cleveland State or another regionally accredited college or university may continue to take undergraduate courses by applying for post-baccalaureate status. Reasons for taking additional undergraduate courses may be to:

- earn a teaching license,
- to complete a certificate program,
- to prepare for graduate or professional school,
- to earn a second bachelor's degree, or
- for personal interest.

Students earning a second bachelor's degree:

- have the individual Cleveland State colleges determine course requirements and college/departmental residency requirements, and
- must meet the university residency requirement of 30 semester hours of course work, including a minimum of 24 credits from upper-division courses

Some post-baccalaureate applicants are eligible for student loans, but others are not. Post-baccalaureate students interested in finding out if they are eligible for financial aid should contact Campus 411 to receive the most up-to-date information.

A complete post-baccalaureate application file includes:

1. A completed Cleveland State application (online or paper).
2. An official copy of the applicant's grade transcript sent directly from the regionally accredited college or university that granted the bachelor's degree showing the date of receipt of the degree.
    - Applicants who are unable to obtain an official transcript from a previous college/university because of financial or other obligations may not be considered for post-baccalaureate admission to Cleveland State.
3. A one-time, $30 undergraduate application processing fee.

College graduates seeking teaching licensure should see the information from the College of Education and Human Services at http://www.csuohio.edu/cehs/students/advising/postbaccalaureate/.

Enrolling at Cleveland State

Enrollment Options for High School Students

Post-Secondary Enrollment Options Program (PSEOP)

The Post-Secondary Enrollment Options Program (PSEOP) is a state-funded program which offers qualified high-school students the opportunity to gain valuable college life experience and earn credit while supplementing their high-school college preparatory curriculum during the fall and spring semesters. Cleveland State University believes that motivated and dedicated high-school students who participate in this program will profit immensely from the opportunity to interact with college students, faculty, and staff, and experience firsthand the benefits and advantages of a metropolitan university. PSEOP is intended to complement rather than replace the high-school college preparatory curriculum.

Admission to the PSEO program is based on the student's high-school grade performance and PSAT, SAT, PLAN, or ACT examination scores. Students who are admitted to PSEOP are eligible to enroll in courses for both high-school and college credit. Once enrolled at Cleveland State, PSEOP students are held to the same standards as regular undergraduate students and must maintain a minimum cumulative grade-point average of 2.0 to continue in the program.

Admission Criteria
(for high school seniors, juniors and sophomores)

- 3.4 high school cumulative G.P.A.
- Minimum ACT (or PLAN) scores of 22 on each section AND a 22 composite, OR minimum SAT (or PSAT) scores of 520 on each section (total of 1040 critical reading and math sections combined)

Students planning to participate in their freshman year are admitted only under special circumstances. Freshman applicants must meet the admission criteria stated above as well as submit two letters of recommendation and a written essay.

Students whose test scores or G.P.A. fall below these Admission Criteria have their applications reviewed on an individual basis by the Admissions Committee to determine whether or not they will be admitted. It is possible for them to be admitted with provisional status.

Home schooled students must be enrolled in an eligible school, which includes electronic schools sponsored by the State of Ohio, in order to participate in PSEOP. Whether or not the student must attend classes at the high school is determined by his or her individual school district.

A complete application consists of the following elements:

- Completed PSEOP Application Form (including Parts 1, 2, 3 & 4)
- Official High School Transcript
- Official ACT and/or SAT test scores *if not posted on high school transcript* (PLAN & PSAT scores will be accepted). Scores are not official if they are written on the application or faxed to Cleveland State University.
- $30 non-refundable application fee (Students will only pay one application fee to Cleveland State and will not be charged an application fee when they apply to pursue a bachelor's degree).

  ** Ninth grade participants must also include:

  - Official copy of most current report card
  - Two recommendation letters, one from a guidance counselor and one from a teacher
  - Student essay answering the following question: Why do you want to participate in the PSEO Program? Include an explanation of what you hope to accomplish at Cleveland State University. (300-600 words)

Application Deadlines

High school students interested in participating in PSEOP for the full academic year (fall and spring semesters) must apply by June 15. Students submitting applications by April 1 will receive their decision by early May. Students interested in participating in the spring semester must apply by November 15.

Orientation
Admitted students are required to attend a PSEOP orientation session to introduce them to Cleveland State and to provide vital information about the program and the University. Information regarding this orientation will be forwarded following admission to the program.

Course Selection and Registration

The course selection process for PSEOP students is a collaborative effort between the student, the high school counselor, and the Cleveland State PSEOP advisor. The high school guidance counselor is required to complete the student's academic advising plan as part of the application. The PSEOP advisor mails a printout of the most recent, available schedule to the high school guidance counselor for review. If any changes are needed, the student's schedule is adjusted.

CSU PSEOP students are permitted to take summer classes as Viking Bridge students; however, they must pay their tuition or be part of a grant funded program.

All Cleveland State University PSEOP students, other than those taking a CSU course(s) only at their respective high school, will meet with a PSEOP Advisor prior to registration. Students taking a course at their high school attend orientation and sign a scheduling form.

Course registration is done on a space-available basis. PSEOP students will register for their courses following the main registration period for current Cleveland State students. Details of this process will be provided during orientation.

Cleveland State University reserves the right to limit the number of credit hours a PSEOP student may enroll in each semester. In general, the recommendations are as follows per semester:

- Juniors and seniors may enroll full time.
- Sophomores and Freshmen should consider enrolling in one or two courses per semester.

The PSEO Program Advisor, the high school guidance counselor and the student will determine the appropriate number of courses in which a student can enroll each semester. The high school counselor should be consulted about any additional restrictions.

Viking Bridge to College Program

The Viking Bridge to College Program offers qualified high-school students, who are uninterested or unable to participate in the Post-Secondary Enrollment Options A or B, the opportunity to take courses during the fall, spring, or summer semesters. Unlike PSEOP Option B, all tuition, fees, and books for students enrolled in Viking Bridge must be paid by the individual student or parent. Admissions requirements for this program are the same as the PSEOP criteria. Individual school districts decide whether or not to accept college credits earned under Viking Bridge.

For more information contact our PSEOP Coordinator at 216-687-2279 or f.feola@csuohio.edu.

Enrolling at Cleveland State

Project 60 Students

The Project 60 Program enables any Ohio resident, age 60 or older, to enroll in for-credit classes at Cleveland State University on a tuition-free, academic space-available basis. Students are responsible for purchasing their own textbooks, providing transportation, paying for parking, and any other special fees.

Benefits

- Attend classes at the downtown campus, West Center in Westlake or East Center in Solon
- Receive an official Cleveland State ID card (Viking Card)
- Use the Michael Schwartz Library
- Use campus computer labs, may borrow Mobile Campus laptops, and issued CSU email accounts
- Use the Career Services Center
- Obtain membership to the Cleveland State University Recreation Center. Details are available at www.csuohio.edu/services/recreationcenter/membership/community or call 216-802-3200.
- Receive student discounts with the use of your Cleveland State ID card
- Participate in student events and activities on campus. Visit Student Life for details.

Admission

If interested students would like to join us for the upcoming semester, please mail or deliver an application form to the following address: Project 60, Cleveland State University, 2121 Euclid Ave., EC 100, Cleveland, OH 44115-2214. The application form is a simple, one-page form. You can download the application form or you can call 216-687-9379 for assistance.

On the Thursday prior to the first day of the semester, students can register for their courses online through CampusNet. Individual assistance to register for classes will be provided at the Project 60 In-Person Help Day (optional) at the main campusor West Center. Please visit the Project 60 website for the upcoming enrollment dates.

Policies

Classes are taken on an audit basis only, so students are unable to earn a degree or credits toward a degree with the classes taken through the Project 60 Program. Project 60 students may not enroll in both Project 60 classes and degree seeking classes during the same semester. If students wish to earn a degree or credits toward a degree, please visit our Undergraduate Admissions Office website www.csuohio.edu/admissions or call 216-687-5411.

Most for-credit courses are open to Project 60 students on a space-available basis. Students are responsible for obtaining permission to take classes, if necessary. The following courses require permission:

- **Law classes:** call 216-687-4557
- **Studio art classes:** contact the instructor for permission
- **Applied music:** call 216-687-5018
- **Graduate classes:** form available on the Project 60 website; students are required to get permission from the instructor.

Available Classes

The Undergraduate Catalog and list of classes are available online. Although paper copies of the classes being offered and their descriptions are not available, individual assistance in choosing classes may be obtained at the Project 60 In-Person Help Day. Please call 216-687-9379 or visit www.csuohio.edu/project60 for more information.

Contact Information

Phone: 216.687.9379 Email: project60@csuohio.edu Website: www.csuohio.edu/project60

Enrolling at Cleveland State

International Student Admissions

- Go to International Admissions website

Inquiries regarding application procedures should be directed to:

Center for International Services and Programs (CISP)
2121 Euclid Avenue
Main Classroom, Room 106
Cleveland, Ohio 44115
U.S.A.

Phone: 216-687-3910
FAX: 216-687-3965

Web site: www.csuohio.edu/offices/international

Please visit CISP for explicit requirements, country-by-country.

Enrolling at Cleveland State

Admission to Special Programs

The following Cleveland State undergraduate programs require additional application procedures beyond regular admission to the university. If you plan to pursue one of the following programs, please click on its link below and complete the additional application procedures:

- Honors Program
- Music
- Nursing
- Teacher Licensure (Post-baccalaureate)

Application Fees

A nonrefundable $30 application fee is required by check or money order (made payable to Cleveland State University). Students submitting an application online may pay with Visa, MasterCard or American Express.

High School students who have limited financial resources and meet the NACAC requirements may use the NACAC Request for Application Fee Waiver Form when applying for college.

Application Deadlines and Notification of Admission Status

Cleveland State reviews student applications on a rolling basis up to two weeks prior to the start of the semester. However, high school students applying for the following fall semester should complete their applications as early as possible in their senior year. First- year students interested in applying for the Honors Program should apply before January 15 of each year. Students applying as juniors (60-89 credit hours) to the Honors Program should apply by February 28 of each year. Selection of students for merit-based scholarships begins in November of each year for qualified students who are admitted to the university. Applicants who

apply well in advance of the start of the semester have the advantage of being among the first to be considered for scholarships, reserve housing, schedule orientation and register for classes.

Many programs can admit only limited numbers of new students. When all the space in a program is taken, the Office of Undergraduate Admissions no longer considers applications for that program. In any case, you should make sure that all your application materials are in the admissions office by the following priority dates:

Fall Semester Admission: July 15

Spring Semester Admission: November 1

Summer Semester Admission: April 15

Although we will make every effort to process applications received after the priority date, they cannot be guaranteed to be processed in time for that semester.

After all materials are received to complete an application file, the file is reviewed and the applicant is sent a letter indicating acceptance or denial.

Admissions Standards

Cleveland State University promotes success by admitting freshmen who are prepared academically, as demonstrated by the three criteria below:

- **Completion of 13 units of the state-specified, core curriculum in high school**
  - 4 units of English and
  - 3 units each of mathematics, social science, and natural science.
    (additionally, 2 units of foreign language and 1 unit of visual/performing arts are strongly recommended)
- **Attainment of at least a 2.3 grade-point average (GPA) in high school**
- **Mandatory completion of the ACT or SAT with a minimum score of 16 or 770, respectively. Students taking the new SAT should earn a minimum combined score of 770 on the math and critical reading sections.**

With these criteria serving as the basis for regular admission, the university may offer provisional admission to students who do not fully meet them. These provisional students will be limited to 12 hours or fewer each semester during their first year of enrollment at Cleveland State in an effort to promote their academic success. Students not qualifying for admission may complete specified course work at a regionally accredited, two-year or four-year college and reapply to Cleveland State.

Foreign Language Entrance Requirement

Cleveland State requires all students who graduated from high school in 1987 or later to have completed two years of a foreign language in high school. Students who did not complete the courses in high school must finish a first-year foreign language sequence, or take two semesters of American Sign Language and one approved foreign-culture course. The deficiency must be corrected prior to the completion of 60 credits at Cleveland State. Students in the College of Liberal Arts and Social Sciences should consult with their adviser on additional foreign language requirements to complete their bachelor's degrees.

The Foreign Language Entrance Requirement applies to all undergraduate students, including those who are not native speakers of English and students for whom English is a second language, unless specifically exempted in the policy on Foreign Language Requirement (e.g., post-baccalaureate students). Such students, if deficient in foreign language studies credits upon admission to Cleveland State University, may remove the deficiency by completion of appropriate courses at Cleveland State or by verification of appropriate knowledge of language and culture through the Department of Modern Languages at Cleveland State.

Foreign Language Placement

The courses needed to meet the Cleveland State Foreign Language Entrance Requirement and the College Graduation Requirement depend on how many years were completed in high school and when these were taken. Any delay in meeting this requirement may mean repeating classes taken in high school. Students should begin their language study at a level that reflects their current level of competency. Placement tests in French and Spanish and advising from Modern Languages faculty can help determine the appropriate level. Students who repeat language courses taken in high school can count those credits toward graduation, but not toward the CLASS Foreign Language Requirement.

Freshman and transfer students with more than one year or its equivalent study and fewer than three years or their equivalent study in French or Spanish are required to take the placement test. Students with three years or more of study in French or Spanish who want to continue their work in the language must take the placement test to assist in placement. Students who have studied other languages in high school should consult with the Modern Languages Department directly to continue their work in these languages. Faculty in the foreign languages normally conducts informal placement interviews.

Transfer students and students who have taken the Advanced Placement Test in a foreign language should consult with an academic adviser regarding the credit granted; they should then consult with the Modern Languages Department to select appropriate advanced coursework.

Placement Testing

- Go to the Placement Testing website
- English and Math Placement
- Foreign Language
- English as a Second Language
- Other Tests

English and Math Placement

Freshman students are required to take the placement test prior to registering for an English course or math course. Under the new ACT policy, however, students scoring 16 or above will no longer have to take the English placement test. Students who have taken the Advanced Placement Program Exam and received College Board AP credit should consult with an academic adviser. Mandatory placement is in effect for all mathematics courses numbered MTH 115 through 127, 148, and 167 through 181. Students become eligible to take one of these courses by achieving a suitable score on the Math Placement Examination, or by passing the prerequisite course at Cleveland State University or another university or community college.

Transfer students who have completed and received transfer credit for at least one three-credit hour course in Freshman English, or college-level math courses, will not be required to take Placement Examinations. They should consult with their academic adviser to select appropriate coursework based on transfer credit applicability.

- The placement testing process is completely done by computer, and test results are provided immediately upon completion of the tests.

- Placement testing dates, times, and sample tests are available at the Placement Testing Office, Rhodes Tower West Room 289, at 216-687-2566 or online at: http://www.csuohio.edu/offices/counselingtesting/placementhome.html.
- You do not need to register for the placement tests. Simply show up during the posted placement testing hours.
- **WEEKDAY PLACEMENT TESTS** may be taken anytime during the posted office hours.
- A photo ID is required to take all placement examinations.
- The Office of Disability Services is available to assist students with special needs during placement testing. Call the office at 216-687-2015 for more information.

Foreign Language

- The Academic Services Center also administers the Spanish and French placement tests by computer.
- The Spanish and French departments can access the test results for advising purposes.

English as a Second Language (ESL)

- Students whose first language is not English should first take the English Placement Exam. If they do not place into ENG 101, they should register for ESL 096, which will prepare them for the Freshman Composition series.

Other Tests

- The Academic Services Center administers the Compass test for Education majors and the Chemistry placement test.

University Regulations

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Enrollment

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- Class Rank
- Enrollment
- Changes to Enrollment
- Official University Withdrawal Regulations
- Administrative Withdrawal
- Attendance Requirements
- Academic Course Load

Enrollment dates and procedures can be found on the University Registrar's website at www.csuohio.edu/registrar.

Enrollment Status

An undergraduate student enrolled in at least 12 credit hours (excluding courses taken on an audit basis) each semester shall be considered a full-time student. Enrollment of six credit hours shall be considered half-time and fewer than six credit hours shall be considered less than half-time.

Class Rank

Undergraduate class rank is determined by the number of cumulative hours completed.

Determination of Undergraduate Class Rank	
Rank	**Hours**
Freshman	0-29 hours
Sophomore	30-59 hours
Junior	60-89 hours
Senior	90+ hours

Enrollment

Each term it is necessary for a student to select courses and pay the appropriate fees to officially enroll for classes. Details regarding enrollment options are available on the University Registrar's webpage at www.csuohio.edu/enrollmentservices/registrar.

Each term's enrollment dates and procedures can be found on the university's academic calendar. Add/drop/withdrawal deadlines may be reduced proportionately for any alternatively scheduled course that does not follow that term's established begin and end dates.

Changes to Enrollment

A student may enroll for a course by the end of the first week of classes in fall and spring term or before the posted deadline for summer sessions and alternatively scheduled courses without permission. After the first week and up to the 15th day of the term for fall and spring or until the last day to register/add with permission for summer term and alternatively scheduled courses, enrollment may only occur with the permission of the instructor by way of the appropriate late enrollment form. All enrollment forms are available on the University Registrar’s website.

Official University Withdrawal Regulations

A student may withdraw from a course without permission through the 10th week of fall and spring or before the published deadline for summer sessions and alternatively scheduled courses.

A withdrawal prior to the 15th day of fall and spring or before the published summer session deadline will not result in a grade on the student transcript. A withdrawal after the 15th day up through the withdrawal deadline will be indicated on the university official academic record by a “W.”

Non-attendance does not constitute an official withdrawal from the course. A grade of “F” may be assigned when a student fails to complete a course or withdraw.

Dropping/withdrawing from courses may affect student financial aid. Students are strongly encouraged to consult their college advising office or Campus411 prior to withdrawing from classes in the current term or retroactively.

Administrative Withdrawal

The university has the authority to withdraw students from classes. Such withdrawals can be enforced upon the request of instructors or academic departments for a variety of reasons including lack of prerequisite course work, inadequate placement results or non-attendance.

Attendance Requirements

Students are expected to attend class. If a student expects to be absent for an extended period of time, notification should be given to the course instructor or college dean. Non-attendance does not constitute a withdrawal.

Academic Course Load

The maximum number of credit hours a student may enroll in for the term is determined by each college. A student wishing to enroll in more credits than the college permits must do so only with the written consent of the student's academic dean or academic advising unit. This written consent must be submitted at the time of enrollment. For college specific information, visit the Academic Course Load section for the appropriate academic unit.

Undergraduate Students Taking Graduate Courses

An undergraduate student who is pursuing a baccalaureate degree at Cleveland State University may be granted permission to take one or more (maximum of nine credit-hours) graduate courses at the 500 level if the student meets all the following conditions:

1. The student must be within 30 hours of graduation.
2. The student must have an overall grade point of 2.75 or better through the preceding semester.
3. The student must have a 3.00 or better grade-point average in the major field.
4. The student must obtain permission from his or her adviser, the instructor of the course, and the department chair, via signature on the Undergraduate Student Permission to Take Graduate Courses form.

An undergraduate student who is deficient in any of the above respects may not take a graduate course without the approval of the academic dean of the college where the course is offered and the graduate dean. Undergraduate students may not register for 600- to 800-level graduate courses.

Credit for these courses, up to a maximum of nine credits for courses where the grade received is B or above, may be applied at a later point to a graduate degree program provided that the credit was not used to satisfy baccalaureate degree requirements. Internal transfer of credit is subject to Graduate College transfer credit regulations.

Post-baccalaureate and non-degree students enrolled at the undergraduate level may *not* register for graduate-level classes.

College-to-College Transfer

A student wishing to transfer from one college of the university to another may do so with the consent of both deans. The transfer request is initiated with the Advising Office of the college in which the student is currently enrolled.

Declaration of Major

Undergraduate students are strongly encouraged to identify major areas of study in conjunction with their academic advisers early in their academic career. It is relatively common for students to explore several areas of study. However, in order to provide students with the best possible opportunity to graduate in a timely manner, all undergraduate students are required to formally declare a major before completing 60 credits. Transfer students who are admitted to the university with more than 60 credits are allowed one semester of

study before enrolling in the subsequent semester. This requirement applies to degree-seeking students. Certain colleges and/or programs of study may have specific declaration of major requirements. In those cases, the college/program requirements supersede this university requirement. Contact the University Advising Center and College Advising Offices to facilitate any changes to your major.

Transient Status for Current Cleveland State Students at Other Schools

Transient status is approved for eligible students who are currently in good academic standing, up to the limit of eight semester hours over the course of their career at Cleveland State University. Students will not be approved for transient status beyond this limit except when the course(s) to be taken are not offered at Cleveland State and can be justified in terms of their academic program. All work to be completed on a transient basis must be approved in advance through submission of the Transient Permission Form, which is available through the University Registrar's website at: http://www.csuohio.edu/enrollmentservices/registrar/forms/ as well as the various collegiate academic advising offices.

Prior approval must be obtained by students to ensure acceptance and applicability of transient work, according to the following guidelines:

1. All students must obtain approval from the dean's office of the academic college in which they are enrolled.
2. Declared majors must also obtain approval of a faculty adviser within their department in cases where the course is to be applied toward a major-field requirement.

Students who are in their last 30 credits of work at Cleveland State University, and those with junior standing wishing to attend a two-year institution, must seek approval of transient status by petitioning the University Petitions Committee prior to taking the course. Students with junior standing (but not in their last 30 hours) may take a course at a four-year institution with transient permission.

Cross Registration

Full-time Cleveland State students, in good academic standing, can cross-register for a course each semester on a no-fee basis at 14 local colleges and universities. This status is designed to enhance the educational programs of students by allowing them to register for courses not offered at their home school. Cross registration forms can be obtained from Campus411 or by visiting the University Registrar’s webpage. Students should be aware of the scheduling differences at each institution.

Students must remain at full-time status to be eligible for this program. A student's total credit hours (CSU+ hours at the cross-registered school) may not exceed 16 credits.

Credit for Study Abroad

- Go to Center for International Services and Programs' Study Abroad website

A student who seeks credit for study abroad should consult in advance with the study-abroad coordinator, who will assist the student in obtaining approval for plans.

To be eligible for study abroad, a student must have a university GPA of at least 2.00 and must be enrolled as a degree or non-degree seeking student. Graded credit is awarded only for academic work completed in faculty-led Cleveland State University study abroad programs and programs led by faculty from the Northeast Ohio Universities Modern and Classical Languages Consortium (CSU, Kent State University, University of Akron and Youngstown State University). Final authorization of transfer credit is given after the student

presents to the Study-Abroad Manager documentation showing fulfillment of approved written plans for credit and after review by appropriate academic departments.

Alternative Credit

- Introduction
- Credit by Examination
    - College Level Examination Program
    - Departmental Examinations
- Military Training and Experience
- Assessment and Accreditation of Prior Learning Experience (AAPLE)

Introduction

The following programs/services allow students to begin college work at levels consistent with their academic background, thereby avoiding the repetition of material already mastered. These options also permit students to pursue more flexible schedules and reduce the time required for completion of graduation requirements. Students may be granted credit through these programs at the time of initial enrollment at Cleveland State University or subsequent to their matriculation. Credit granted through the following programs is not, however, applicable in the calculation of enrollment status (full-time, half-time, etc.) for the term in which it is completed or posted to the academic record.

Credit by Examination

- Go to Testing Center website

The four types of examination credit recognized by Cleveland State University are those earned through the Advanced Placement Program (AP), for which there is no limit on the number of credits that can be granted, the College Level Examination Program (CLEP) general exams, for which a maximum of 30 credit hours can be granted, the College Level Examination Program (CLEP) subject exams, for which a maximum of 30 credit hours can be granted, and departmental examinations, for which a 30-credit limit also exists.

The following regulations apply to the pursuit of credit by examination:

1. Credit is granted only to matriculated, degree-seeking students.
2. Credit granted for successful completion of an examination will be entered on the student's permanent record as hours earned. A grade is not assigned for such work.
3. If a student does not receive a score high enough to grant credit, no entry is made on his or her permanent record.
4. Credit will not be granted for areas of study or for particular courses in which the student has already earned or been granted equivalent Cleveland State credit.
5. Generally, Cleveland State does not approve for credit the score made when an examination has been repeated.
6. Credit earned through CLEP or Advanced Placement may not be applied toward the student’s residence requirement. However, credit earned for departmental examinations may be utilized toward this requirement.

All students interested in pursuing credit by examination are urged to discuss their plans with an academic adviser prior to registering for the examination(s).

College Level Examination Program

The College Level Examination Program (CLEP) is offered under the auspices of the College Entrance Examination Board. The Examination Program consists of two components: general and subject examinations. Both types of examinations are administered through Cleveland State's Testing Center, as well as at other testing centers across the country.

Students seeking credit through CLEP after completing Cleveland State or other college-level work are cautioned to determine in advance with an academic adviser whether such credit will duplicate that already earned. Transfer students who have received credit through CLEP at another institution should have the official score report sent to the Office of the University Registrar for evaluation.

The general examinations comprise a series of five comprehensive exams in the areas of English, Humanities, Mathematics, Natural Science, and Social Science/History. Cleveland State requires a minimum score of 500 in order to grant credit for any of these examinations.

The subject examinations are end-of-course exams for 35 widely taught undergraduate courses representing a diverse range of academic disciplines. Cleveland State requires a minimum score of 52 in order to grant credit for any of these examinations. For certain examinations the student is required to complete an essay in addition to the objective section.

Departmental Examinations

End-of-course examinations are administered by various university departments. Each participating department’s chairperson shall decide the grading and level of achievement required for credit from these exams. The Department of Modern Languages also provides examination opportunities in foreign languages not typically offered by the department, contingent upon the availability of a qualified examiner. Questions about this and other departmental exams for credit should be directed to the appropriate office. A fee is charged for each departmental exam attempted.

Military Training and Experience

Cleveland State University grants college-level credit for military training and experience in accordance with the credit recommendations provided by the American Council on Education. In order to have such work evaluated and added to the permanent academic record a student needs to submit to the Office of the University Registrar certified copies of any documentation related to these experiences, including official military transcripts or discharge forms. Decisions regarding the utilization of credit granted through this program shall be made at the discretion of the student’s academic adviser.

Assessment and Accreditation of Prior Learning Experience (AAPLE)

- Go to the AAPLE Handbook

The Assessment and Accreditation of Prior Learning Experience (AAPLE) is a credit for life experience program offered by the Maxine Goodman Levin College of Urban Affairs at Cleveland State University. The program is designed to award undergraduate academic credit to majors in urban studies for previous substantial learning experience in settings other than the classroom. Students may earn up to 24 credits through this program; fees are assessed at approximately one-half of the current tuition (per credit hour) rate.

Veterans' Educational Benefits

The veteran representative certifies the enrollment of veterans to the Veterans Administration (VA) for those students who have completed application for VA Educational Benefits to the Campus 411 Office. Once the

application or change of program form is on file, certification of enrollment will be automatic. Students will still have to verify it on the VA's website under WAVE at the end of each month. Students with questions about their benefits or certification should speak with a specialist in Campus 411 or call the VA Office at 216-687-2053. All enrollments are subject to audit by the Veterans Administration. Any overpayment in veterans' benefits discovered through a VA audit will result in the veteran assuming liability for repayment.

Family Educational Rights and Privacy Act of 1974 (FERPA)

Cleveland State University is required to give annual notice to students, or parents of students, of the rights granted by the Family Education Rights and Privacy Act (FERPA) of 1974. In accordance with this act you are notified of the following:

Right to Inspect

You have the right to inspect and review information contained in educational records maintained by Cleveland State University.

Right to Request Amendment

You have the right to request an amendment of an educational record that you believe to be inaccurate, misleading, or otherwise in violation of your FERPA rights. This includes the right to a hearing should the university decide not to alter a record according to your request.

Right to Prevent Disclosure

You have the right to restrict the release of information that may be disclosed on an unlimited basis by university personnel in response to oral or written requests. Certain exceptions to this rule are specified in the Act. See also Student Rights Regarding the Release of Directory Information.

Right to File a Complaint

You have the right to file a complaint with the U.S. Department of Education concerning any belief you have that Cleveland State University has failed to comply with the provision of FERPA. Written complaints should be directed to The Family Policy Compliance Office, U.S. Department of Education, 600 Independence Avenue, SW, Washington, D.C. 20202-4604. Phone: 202-260-3887. Fax: 202-260-9001.

A copy of Cleveland State University’s institutional policies on access to student records may be obtained by request from the Office of the University Registrar in KB 1400 or viewed on the Web at www.csuohio.edu/enrollmentservices/registrar/privacy/ferpa.html. These policies set forth the procedures for inspection and amendment of educational records.

Student Rights Regarding the Release of Directory Information

The Family Education Rights and Privacy Act of 1974 (FERPA) as amended, prohibits Cleveland State University from disclosing or releasing a student's "education record" or personally identifiable information contained in that record without the student's consent. FERPA defines "education records" as "those records, files, documents and other materials which (i) contain information directly related to a student; and (ii) are maintained by an educational agency or institution or by a person acting for such agency or institution."

One of the exceptions to FERPA permits the university to release or disclose "directory information" about students without their consent. The university will release the following as "directory information" unless otherwise instructed by the student:

- Name
- Participation in officially recognized activities and sports
- Height and weight for members of athletic teams
- Dates of attendance
- Degrees earned and awards (honors) earned

Students who wish to restrict the release of the foregoing information can do so via CampusNet under the Student Records option or by submitting the Directory Information Restriction Request form to Campus411. The form can be found on the University Registrar's website under Downloadable Forms at www.csuohio.edu/enrollmentservices/registrar or by visiting Campus411 in person. This restriction will remain in effect until you request in writing that it be removed. However, even if you file such a request, the university will release information as necessary if it is determined that disclosure is permitted by FERPA without prior consent (e.g., response to a subpoena, health or safety emergency, etc.). Refer to the University Registrar's website at www.csuohio.edu/enrollmentservices/registrar for more information on FERPA.

Please be aware that if a student requests that the foregoing information be withheld, it will be withheld from a variety of sources, including friends, relatives, prospective employers, insurance agencies, honor societies, and the news media. Students should carefully consider the consequences of withholding such information before they do so.

Student Records

Right to Review Records

Students attending Cleveland State University have the right to review educational records which consist of official records, files, and data directly related to themselves which are maintained by department, college, or university offices. Personal files maintained by faculty or staff are excluded from coverage under this policy.

Medical and counseling records maintained by professional or paraprofessional physicians or counselors which are used in treatment or counseling with a student are deemed confidential and need not be shared with a student. Such records may be reviewed by a physician or other appropriate professional of the student's choice. The following is a list of college and departmental offices and the records they may retain.

- Admissions Offices (Graduate)
    - Admissions File
      (Records submitted by applicants are not available for inspection until admittance and registration of the student.)
- Alumni Office
    - Degree information for alumni
    - Names and addresses of alumni
- College Dean's Office
    - Student File
- College Departmental Offices
    - Student File
- College of Education--Student Personnel Service
    - College of Education student records will be maintained in this office rather than in the Education College Dean's Office. Under the Family Education Rights and Privacy Act (FERPA) of 1974, confidential materials submitted prior to January 1, 1975, are not available. Records that are available include: (undergraduate) academic records, students' written objectives, speech and hearing test results, T.B. test results, and schedules; (graduate) application, transcript, GRE test results or Miller Analogies Test results, and letters of recommendation.
- College of Law--Dean's Office
    - Admission file

    - Placement file
    - Student file
- CO-OP Office
    - Education file
    - Employer file
- Division of Collegiate Studies
    - Admission information
    - Diagnostic Test Information
- Judicial Affairs--Department of Student Life
    - University Judiciary Reports and Conduct Records
- Placement Office
    - Placement folders submitted by students for employment purposes
- Treasury Services
    - Student Financial Record
- University Police
    - Incident Report/ Crime Log
- University Registrar
    - Academic Record
    - Admission Record (undergraduate only)
    - Student Schedule
    - Residency Petition
    - Change of Name Record
    - Transcript Request File
    - Transient Record
    - Graduation Application File
    - Registration/Enrollment Materials
    - Veterans' Certification File

Grading

- Credit Hour
- Grades with Quality Point Value
- Grades Without Quality Point Value
- Audit of Courses
- Grade Dispute / Grade Changes
- Grade-Point Average
- Satisfactory Unsatisfactory (S/U) Grading Basis
- Course Repeat Policy

Credit Hour

The university is conducted on the semester plan, the school year being divided into two semesters, each lasting 15 weeks. Each semester credit represents approximately 15 hours of classroom instruction or the equivalent.

Grades with Quality Point Value

The following grades for undergraduate courses have quality-point value and figure in the computation of the grade-point average.

A	—	4.0 quality points
A-	—	3.7 quality points

B+	—	3.3 quality points
B	—	3.0 quality points
B-	—	2.7 quality points
C+	—	2.3 quality points
C	—	2.0 quality points
D	—	1.0 quality points
F	—	0.0 quality points

Grades Without Quality Point Value

The following grades for undergraduate courses do not figure in the computation of the grade-point average:

- This notation is used to signify a course that has been repeated and for which a higher grade has replaced this grade (used prior to Spring 2007 term).

I - Incomplete Grade. An "I" grade can be assigned by the instructor when all three of the following conditions are met:

1. Student has the potential to pass the course,
2. Student has not completed all assignments for reasons deemed justified by the instructor, and
3. The student has notified the instructor prior to the end of the grading period.

If all three conditions listed above are not met, the instructor has the option of assigning an "X" or of assigning a letter grade based on completed work. Please note that an "I" automatically becomes an "F" if not resolved by the last day of instruction of the following semester.

The grade of Incomplete (I) is given when the work in a course has been generally passing, but when some specifically required task has not been completed through no fault of the student.

The date assigned by the faculty member for completion of the work for undergraduate courses cannot be later than the last day of classes of the next term following the term in which the Incomplete grade was received. (The time limit may extend up to four weeks into the fall semester for Incomplete grades received during the spring semester.) For all cases, the time limit applies whether the student is enrolled or not. If a grade change is not submitted by the end of the time limit, the Incomplete becomes an F.

NC - No Credit. (Audit. See explanation below.)

S - Satisfactory includes SA, SB, SC grades. Equivalent to a C or better.

T - Temporary. A designation given at the end of the term when a course is scheduled to be continued beyond one term.

U - Unsatisfactory includes UD, UF grades. Equivalent to a D or F.

W - Authorized Withdrawal.

X - X Grade. The grade of "X" can be assigned by the instructor when an attending/participating student has stopped attending/participating without notification and has not completed all assignments for reasons that cannot be determined by the end of the grading period. An "X" automatically becomes an F if not resolved by the last day of instruction of the following semester. Should the faculty member choose not to submit a grade for a student, e.g., student never attended, a grade of "X" will be assigned.

Audit of Courses (NC)

The grade of "No Credit" is given when a student enrolls in a course on the audit grading basis. Before registering for a course on this basis, a student must obtain authorization from the dean's office. Students who audit a course pay full tuition but do not earn credit for the course. A course taken on an audit basis cannot be included in the calculation of enrollment status.

Only students who have been admitted to the university may audit a course. Students may not change the grading basis of a course after the last day to register without permission.

Grade Dispute/Grade Changes
Definition: A “change of grade” is a request by an instructor to alter a grade that has already been submitted.

A faculty member may change a grade (1) because of an error in computation or (2) because of circumstances he or she deems “extraordinary” which bear on the appropriateness of the grade awarded. A student wishing a change of grade must contact the course instructor. If the instructor cannot be contacted, the student must contact the Chair/Director of the Department/School in which the course was offered. If the instructor (or, in the absence of the instructor the Chair/Director) agrees that the course grade should be changed, the following procedure must be followed.

Change of grade forms must be used to request that posted grades be changed. The instructor of record in the course in which the grade was awarded MUST sign the change of grade form. In the event that the instructor of record cannot sign the form (e.g., because s/he has left the university or cannot be contacted), the change of grade form may be signed, instead, by the Chair/Director of the Department/School in which the course was offered. In all cases, the Dean of the College in which the course was offered must also sign the change of grade form. Change of grade forms must be filed no later than the last day of class (not including exam week) of the second semester following the semester in which the course was offered.

If the instructor does NOT agree that the grade should be changed, the student may initiate a grade dispute, using the following procedure:

Grade Dispute:

Definition: A grade dispute is a situation in which a student requests that an instructor change a grade that has already been posted but the instructor disagrees that the change should be made.

After determining that the instructor is unwilling to change the grade, the student should contact the Chair or Director of the program in which the course was offered and indicate in writing the reasons why the student believes the grade should be changed. The burden is on the student to prove that a computational error has been made or that non-uniform standards have been applied in assigning the grade. The student must submit their written explanation to the department chair no later than the last day of class of the semester following the semester in which the course was offered.

The department chair, upon receipt of the student’s written explanation, shall share it with the instructor of record in the course in question and request a written response. This response shall then be shared with the student. The chair will then arrange a meeting, at which s/he will serve as mediator, between the student and faculty member and attempt to resolve the dispute. If the instructor refuses to submit a written response and/or to participate in a meeting with the student, the chair is empowered to render a decision on the student’s request. Otherwise, the chair may serve only as a mediator. If both the student and the faculty member agree to the solution proposed by the chair, the outcome of whatever process is adopted by the parties will be binding and the matter cannot be appealed further.

If the faculty member and student cannot agree to a solution, the chair may, at either party’s request, forward the dispute to the undergraduate college grade-dispute committee in the college in which the course was offered (if no formal committee exists, the dispute shall be referred to a committee designated by the College

Dean). The written documents produced by the student and the faculty member shall be forwarded to the committee, along with a statement by the chair describing his or her attempted mediation and its outcome. The College committee will consider the documents submitted and the testimony of both the student and the instructor. That committee has final authority in deciding if there is substantial justification for the claim and assigning the final grade.

The decision and rationale of the undergraduate college grade-dispute committee must be forwarded to the University Admissions and Standards Committee which determines whether appropriate procedures have been followed. If the University Admissions and Standards Committee determines due process has been afforded, the decision of the college grade-dispute committee stands and there are no further appeals within the University. If the determination is that due process has NOT been afforded, the matter shall be returned to the Dean of the college in which the dispute originated with a written statement of the reasons for the Committee's determination and a recommendation that the grade dispute process be restarted at the step at which the violation of due process occurred.

Approved by Faculty Senate May 6, 2009

Grade-Point Average

A student's academic standing at Cleveland State University is expressed in terms of the grade-point average (GPA). This is determined by dividing the total quality points earned by the total credit hours attempted. All grade-point averages are carried to two decimal places unrounded.

Satisfactory/Unsatisfactory (S/U) Grading Basis

A student who has earned at least 30 credits may take one course each term on the S/U basis, up to the limit of four courses. A student on probation is not eligible to take courses on this basis.

Students may elect to enroll in any course on this grading basis except those in their major field and those which are specified in their curriculum by course number and/or course title. No more than one course completed on this basis may be used to satisfy an elective requirement in a minor field. Students may not change the grading basis of a course after the last day to register without permission.

The S grade is defined as C or better, and neither the S nor the U will have any bearing on the student's grade-point average.

Courses designated as S/U only cannot be taken for graded credit and are exempt from the four course limit.

Course Repeat Policy

The Course Repeat Option provides students who have done poorly the opportunity to repeat courses, up to two times. Students may use the D or F Option to attempt to increase their grade-point average (excluding pass/fail courses) using their new grade to replace their previous grade. The previous course(s) will remain on the official transcript for historical purposes only. Students may use the C or Higher Option for completion of program requirements that may require a higher grade than was initially received by the student.

Repeating "D" or "F" graded courses

- Courses may be repeated when any grade equivalent to a D or below which affects the grade-point average has been earned.
- Course Repeat Option may NOT be applied more than two (2) times to the same course.
- The letter grade earned in the most recent attempt will be included in cumulative credit totals and grade-point average, even if that grade is lower than the previous grade.

- Prior to Spring 2007, repeated courses and grades were recorded on the transcript and noted with a "#" indicating that the course has been repeated. Effective Spring 2007, repeated courses are designated with the comment "Course Repeated, Attempt Forgiven."
- All courses designated with a "#" or the "Course Repeated, Attempt Forgiven" comment will not be included in cumulative credit totals and grade-point averages and are not applicable toward graduation requirements.
- Course Repeat Option does not apply to courses which have an alternative repeat policy stated in their course descriptions. Academic programs may also restrict the use of Course Repeat Option.
- Course Repeat Option does not apply to courses graded S/U. Only courses for which a letter grade can be earned are covered by Course Repeat Option.

Repeating Courses graded "C" or Higher

Students may choose to repeat courses in which a grade of C or higher is earned a maximum of two (2) times (depending on whether there are any restrictions specific to that course, see course descriptions in the *Undergraduate Catalog* to determine if restrictions apply). However, courses repeated under these circumstances will have all earned grades calculated into the cumulative GPA and attempted hours and Course Repeat Option will not apply.

Note: Effective Summer 2005, this new comprehensive Course Repeat Option replaced the existing Course Repeat and Freshman Forgiveness policy. The Course Repeat Option is not retroactive to courses already repeated under prior policies. Students repeating courses originally taken on quarters or that do not have the same title, course abbreviation, or catalog number as the original course must submit a Course Repeat Form to Campus411 in MC 116G.

Academic Misconduct

The university policy on undergraduate academic misconduct is outlined in a statement available in the college offices. Initially, a faculty member is expected to deal with academic misconduct by assessing the appropriate penalty as recommended in the Academic Regulations section.

If a student disagrees with either the charge or the penalty, she or he may seek redress through the department chair and the dean. If academic misconduct is determined to have taken place, the student is informed of the decision, the penalty is imposed, and the misconduct recorded in the college and in the University Registrar's Office. The notation remains on the student's record for a period of three years or until the student graduates, whichever comes earlier. It is removed thereafter unless the student has been found guilty of a second offense.

The academic misconduct procedure provides for an appeal through the University Academic Misconduct Review Committee. If the committee determines that no violation has occurred, it will authorize the removal of the notation from the record. Otherwise, an appropriate penalty will be assessed.

Official Academic Transcripts

Students may request an official academic transcript via the Web (at http://www.csuohio.edu/enrollmentservices/registrar/webtranscripts.html), mail or in person at Campus411. Written authorization from the student along with payment is required before any order can be processed.

Transcripts will not be released for students who have an outstanding financial obligation to the university.

Additional information regarding transcript policies and procedures are available at www.csuohio.edu/enrollmentservices/registrar/.

Academic Standing Rules for Undergraduate Students

All undergraduate students must maintain a minimum cumulative grade-point average (GPA) of 2.0 to remain in good standing.

Students will be placed on probation the first time that their cumulative GPA falls below 2.00 if their semester GPA is at least 1.00. Students who earn a semester GPA below 1.00, regardless of their cumulative GPA, will be reviewed by their college to determine whether probation or academic dismissal is the most appropriate academic standing.

Students who have earned 60 or fewer semester credits and who fail to achieve a cumulative GPA of 2.00 after a semester on probation will be reviewed by their college for continued probation or academic dismissal. Evidence of substantial academic improvement is required for continued probation.

Students who have earned more than 60 semester credits and who fail to achieve a cumulative GPA of 2.00 after a semester on probation will be automatically dismissed.

Academic Probation is a designation on a student's record that serves as an academic warning. Students on academic probation are not restricted by the university from participating in extra-curricular activities, competing on athletic teams, or registering for courses. Some students, however, may need to see an academic advisor prior to registration.Though participation in these activities is not restricted by the university, individual departments, programs, or organizations may require additional standards.

Students should direct inquiries regarding academic standing actions to their academic advising office.

Reassessment Eligibility and Process

The Academic Reassessment Policy is designed to facilitate the return to good academic standing of students who have accumulated poor grades in the early stages of their education at Cleveland State University.

A student is eligible for academic reassessment, after an absence of at least one calendar year, if (1) the student returns to Cleveland State University with no more that 90 semester credits earned and a cumulative CSU grade-point average of less than 2.00 and (2) the student successfully completes at least 16 semester credits with a CSU grade-point average of no less than 2.00 following the return. If a student's academic record indicates more than one absence of at least one academic year, no fewer than 16 semester credits must be successfully completed following the most recent absence in order for academic reassessment to be granted. An absence is defined as a period of time in which no enrollment activity, i.e., attempted or earned academic credit, is posted to a student's record.

If a currently enrolled, undergraduate degree-seeking student determines that academic reassessment is a viable option, the student must complete a Request for Academic Reassessment (http://www.csuohio.edu/enrollmentservices/registrar/forms/reassessment.pdf), obtain the written approval of an academic adviser and submit the form to Campus411 prior to the end of the fifth week of the semester or summer immediately following the successful completion of at least 16 credits with a CSU grade-point average of no less than 2.0. A Request for Academic Reassessment will not be considered if it is received after the stated submission deadline.

If, upon return to Cleveland State University, a student fails to complete 16 semester credits with a CSU grade-point average of at least 2.0 and is ineligible for academic reassessment, the student will be subject to the university's academic policy.

Result

Once a Request for Academic Reassessment is submitted and approved, all courses completed prior to the student's most recent absence of at least one calendar year from the university with any grade equivalent to a D or below that affects the grade-point average will be reassessed. Reassessment means the Office of the University Registrar will insert a notation on the official academic record to indicate that the course has been reassessed, is not included in the cumulative credit totals and grade-point average, and is not applicable toward graduation requirements. Academic Reassessment will only be granted once.

Academic Honors

- President's List
- Dean's List
- Graduation Honors

President's List

An undergraduate student taking 15 credits or more during a semester who has earned a grade-point average of 3.9 or above during that semester is placed on the President's List for outstanding academic achievement. The President's List is calculated on credits earned in course work for which grades of A through F are given. Credit earned in a course for which the grade of Satisfactory is achieved will not be counted as part of the 15 semester-credit minimum.

Dean's List

A full-time student (12 credits or more per semester) or a part-time student completing a 12-hour step, who has earned a grade-point average of 3.25 or better, is placed on the Dean's List for excellent academic performance. The Dean's List is calculated on credits earned in course work for which grades of A through F are given. Credit earned in a course for which the grade of Satisfactory is achieved will not be counted as part of the 12 semester-credit minimum for full-time status.

University Valedictorian

For each commencement, a Valedictorian will be selected from the graduating class by a committee comprised of representatives from each college. The Valedictorian will be a student demonstrating outstanding academic qualifications and achievements in or contributions to the university or wider community. The successful candidate will deliver the valedictory speech at the commencement ceremony.

Candidates must have completed a minimum of 60 credits in-residence at Cleveland State University and attained a minimum cumulative grade point average of 3.8 to be considered for Valedictorian selection.

Candidates seeking Valedictorian candidacy may petition their major department, presenting a summary of their qualifications and achievements. All nominations must be finalized by the middle of the spring (for spring graduates) and fall (for summer and fall graduates) semesters.

Graduation Honors

Students who have earned cumulative grade-point averages, calculated to two decimal places unrounded, between 3.30 and 4.00, graduate with the following honors:

3.30-3.59 Cum Laude
3.60-3.79 Magna Cum Laude
3.80-4.00 Summa Cum Laude

Graduation Honors for Transfer Students

If a student has transferred to Cleveland State University, graduation honors will be based on the average for Cleveland State University work or the average for all college work, whichever is lower. In determining the grade average for graduation honors, the Cleveland State University method of computing grade-point averages will be used.

Credit Hour, GPA, and Degree Applications

- Introduction
- Residence Requirements
- Application for Graduation
- Second Degree
- Presence at Commencement
- Go to Commencement website

Introduction

The faculty of each college determines the minimum credit hours and cumulative GPA a student in that college must earn in order to graduate. In no case shall a student graduate with fewer than 120 semester credit hours or a cumulative GPA of less than 2.00.

If a student receives an Incomplete (I) or (X) grade during her or his final semester, the date of graduation will be the end of the semester in which the instructor submits the grade change to the Office of the University Registrar.

Residence Requirements

To earn a bachelor's degree at Cleveland State University, there is a residence requirement which is: the last 30 credit hours, and 24 credits of upper-division course work, must be earned in residence at Cleveland State. The smaller of 16 credits or 50 percent of the departmental credits comprising a major must be earned in residence at Cleveland State. The smaller of nine credits or 50 percent of the departmental credits comprising a minor must be earned in residence at Cleveland State University.

Residency is defined as credit earned at Cleveland State or through an approved program such as the National Student Exchange or Study Abroad Programs that are led by CSU faculty or by faculty from the Northeast Ohio Universities Modern and Classical Languages Consortium (Kent State University, Cleveland State University, University of Akron and Youngstown State University).

Application for Graduation

A student intending to graduate can obtain a graduation application form from her or his academic advising office and must submit it to the Office of the University Registrar by the appropriate deadlines. Please visit www.csuohio.edu/enrollmentservices/registrar/graduation.html for the most current listing of submission deadlines.

The university does not determine or pre-suppose a student's intent to graduate. The student is required to formally record their intent to graduate by submitting an application for graduation. The student must satisfy all completion requirements. If completion requirements have not been met at the end of the graduating semester, the student will be advised accordingly in writing by the Office of the University Registrar. The student is responsible for notifying the Office of the University Registrar once requirements have been met. The student

must also ensure that any administrative or other requirements are met before notifying the Office of the University Registrar. These requirements include, but are not limited to, payment of tuition fees, grade changes and course substitutions.

In order to preserve the integrity of the student's academic record and the credibility of a degree awarded by Cleveland State University, the Office of the University Registrar will not confer degrees retroactively unless there is clear evidence of extraordinary circumstances as deemed by the dean of the college. Authority to approve Retroactive Graduation for undergraduate students lies with the University Registrar.

Second Degree

A student may earn two different baccalaureate degrees in the same college or one degree from each of two colleges. In either case, the student must complete all the requirements for both degrees. The student may receive each degree by applying and paying the fee for each.

A student who has received a bachelor's degree from another accredited college or university may earn a bachelor's degree at Cleveland State University by fulfilling all college and major-field requirements and the 30-credit residence requirement.

Presence at Commencement

All eligible degree candidates are encouraged to attend the appropriate commencement ceremony. In order to participate in the commencement ceremony, a student must have completed or be currently attending all courses necessary to satisfy degree requirements. A student who completes her or his degree requirements during the summer is eligible to participate in the subsequent fall commencement ceremony.

Cleveland State University is unable to send letters to foreign embassies asking that citizens of their country be provided with visas so that they may attend commencement ceremonies at Cleveland State. We encourage such citizens to use the mechanisms already available to them in their countries to request a visa to visit the United States.

Catalog Rights

Degree candidates are responsible for meeting university graduation requirements stated in the Cleveland State University Catalog for the academic year in which they are admitted to Cleveland State University. These graduation requirements are known as catalog rights. Colleges reserve the right to alter the content of courses, add and delete courses, and change required curricula. It is the student's responsibility to remain informed about such changes through regular interaction with their adviser in monitoring progress towards graduation. No university official can relieve students of this responsibility.

Students who interrupt their enrollment in the university for one full academic year or longer, consecutively, including summer, must meet the university graduation requirements of the catalog in effect when they return.

In all instances, students who return to Cleveland State University after enrolling at another college or university (except with transient or cross-registration permission) must follow the university graduation requirements of the catalog in effect at the time of their readmission.

Students transferring from Cuyahoga Community College, Lakeland Community College or Lorain County Community College have special catalog rights.

University Regulations

General Education Requirements

A comprehensive description of Cleveland State University's General Education Requirements (GenEd) for undergraduate students is available online at http://www.csuohio.edu/academic/gened/.

Students are responsible for ensuring the appropriate selection of courses to satisfy GenEd requirements and are encouraged to consult with their academic adviser regarding the applicability of selected courses.

Transfer Students: see Grace Period

Summary Table of New General Education Requirements
(as approved by Faculty Senate, April 2007; effective Fall 2008)

Area	Course/credit Requirement	Min Credits	Further Requirements
Basic Foundation			
Intro to University Life	1 course	1	Must be completed in first year.
Writing/Composition	2 courses	6	Must be completed in the first year or prior to completion of the first 30 hours of coursework.
Mathematics/QL	2 courses	6	First course must be completed in the first year or prior to completion of the first 30 hours of coursework.
Breadth of Knowledge Requirements			
Natural Sciences	2 courses plus 1 hour of lab	7	Each course must be a minimum of 3 hours.
Social Sciences	2 courses (from 2 different departments)	6	Each course must be a minimum of 3 hours. A. One introductory-level social science course. B. One introductory-level social science course focused on a society other than the US. (Note: At least one of these courses, **or** one of the introductory-level Arts and Humanities courses, must be focused on Africa, Asia, Latin America or the Middle East.)

Arts and Humanities	2 courses (from 2 different departments)	6	Each course must be a minimum of 3 hours. A. One introductory-level course in the arts or humanities. B. One introductory-level arts or humanities course focused on a society other than the US. (Note: At least one of these courses, **or** one of the introductory-level Social Science courses, must be focused on Africa, Asia, Latin America or the Middle East.)
Social Diversity	2 courses	6	Each course must be a minimum of 3 hours. A. One course must be African-American. B. One course must be U.S. diversity course.
Additional Components			
Writing Across the Curriculum (including Speaking Across the Curriculum)	3 courses	At least 1 credit for each course	One course must be in the major program. Students may substitute one approved "Speaking Across the Curriculum" (SPAC) course for one of the WAC courses. Individual courses cannot be used to earn BOTH WAC and SPAC credit. Transfer students must take at least one WAC course at CSU: juniors (60-89 credit hours) must complete two courses; seniors (at least 90 credit hours) must complete one course.
Capstone Experience	1 course or equivalent	1	Within major program.

Grace Period for Transfer Students

1. Students who started at another institution prior to Fall 2008 and have been *continuously enrolled** at that institution and transfer into CSU will have the option of fulfilling the old Gen Ed requirements through summer 2010. If that student's enrollment is interrupted, and they return to the transfer institution anytime from fall 2008 forward, they will have to complete GenEd 08 requirements. Beginning in Fall 2010, all transfer students will be expected to follow GenEd 08.
2. Students who begin at another institution from Fall 2008 forward will not have this option and will be expected to meet the requirements of GenEd 08 when they transfer to CSU.

**Continuous enrollment* is defined in a manner consistent with catalog rights policy as applied to CSU native students. Students who interrupted their enrollment at the transfer institution for one full academic year or longer (i.e. 3 consecutive semesters, including summer) are not considered to have been continuously enrolled.

Expenses and Financial Aid

- Back to General Information
- Expenses and Financial Aid Index
- Financial Aid
- Student Enrollment Changes that Can Reduce Financial Aid Eligibility
- Satisfactory Academic Progress Standards
- Go to Office of Treasury Services website for fees, refunds, payment plans, and other student account information.
- Go to Financial Aid website

Financial Aid

- Introduction
- Financial Aid Application Process
- Employment Options
- Types of Financial Aid
- University Scholarships and Grants
- Federal Aid Programs
- State Supported Programs
- National Guard Scholarship Program
- Private Scholarships
- Scholarship Opportunities for New Freshmen and Transfer Students
- Part-Time Students
- Renewals
- Concurrent Enrollment
- Professional Judgment

Introduction

Financial aid is money that is provided to help bridge the gap between your own resources and the amount of money needed to pay the cost of attending college. The university administers all of the major federal and state grant and loan programs. In addition, Cleveland State provides university grants and scholarships. Our goal is to help reduce the difference between educational costs related to attendance and the amount that parents and students can reasonably contribute toward the student's education.

The first step in the financial aid process is completing the Free Application for Federal Student Aid (FAFSA). By completing the FAFSA, you are applying for grants and self-help programs (Federal Work-Study and loans). Students must complete the FAFSA and meet all federal eligibility requirements each year in order to be eligible for financial aid. The major sources of financial aid are university scholarships and grants, federal aid programs, state-supported programs, and a number of sponsored scholarships described on our website.

New students will be considered for merit scholarships based on their academic performance and standardized test scores.

Continuing CSU students should complete the CSU continuing student scholarship application found on the web at www.csuohio.edu/enrollmentservices/financialaid/forms.

For a complete listing of scholarship opportunities and application deadlines, please visit the CSU website. If you need in-person assistance, please go to Campus411. You can also call us at 216-687-5411 or visit our website at www.csuohio.edu/enrollmentservices/financialaid/.

Financial Aid Application Process

Students need to complete the Free Application for Federal Student Aid (FAFSA) or the Renewal Application for Federal Aid to determine eligibility for federal, state, and campus-based aid programs. The FAFSA is available each January online at: http://www.fafsa.gov Applications should be completed as soon as possible after January 1 to assure timely processing. . A link is provided on our Financial Aid Website: www.csuohio.edu/enrollmentservices/financialaid/. The Cleveland State University code number is 003032.

Students planning to attend CSU should complete the FAFSA or the Renewal FAFSA by February 15, our priority consideration filing date. Students filing after this date will be considered for all available remaining resources.

To receive financial aid or a determination of eligibility for financial aid, students must be admitted into a degree-granting program at Cleveland State University. Audited classes are not financial-aid eligible.

Students and parents may be required to submit documentation verifying information reported on the FAFSA. The Financial Aid Office will notify you if additional information is required or if you have been selected for the verification process.

Employment Options

- Student Employment Program
- Cooperative Education
- Internships

Student Employment Programs

On-Campus Student Employment
All students enrolled at Cleveland State for at least six credit hours are eligible to participate in the On-Campus Student Employment Program. In a typical academic year, approximately 2,000 student employment opportunities exist throughout the campus. Students employed on campus can earn money to help pay for their education, develop valuable career skills, and have the added convenience of working flexible hours without additional commuting time.

On-Campus student positions are conveniently posted on the student employment link or by clicking "Employment Opportunities" from the CSU alphabetical listing.

Cooperative Education

The Cooperative Education Program provides opportunities for work experiences in a field related to the student's major. Contact the Career Services Center (687-2233) for more information on how to qualify for this program or view the Career Services website at http://www.csuohio.edu/offices/career.

Internships

Internships are degree-related work experiences for which academic credit is earned. Internships typically are not compensated employment. To learn more about internship requirements and opportunities in your field, contact your academic adviser or department chair.

Off-Campus Part-time Employment

The Career Services Center is a resource for part-time off-campus job listings. Register with Career Services at http://csucareerline.experience.com to view job postings.

Off-Campus Full-time Employment

The Career Services Center has a resource of fulltime off-campus job listings. Go to the Career Services Center, Rhodes Tower West Room 280 for advice and register with Career Services at http://csucareerline.experience.com to view job postings.

Definitions of Types of Financial Aid

Scholarships/Grants: Awards that do not require either repayment or any specific service to be performed by the student.

Loans: Money offered with the requirement that it be repaid.

Employment: Money that must be earned through employment.

University Scholarships and Grants

University Scholarships

University scholarships and grants are awarded to students in amounts ranging from $100 up to full-tuition.

Students may visit the CSU website to access scholarship opportunities and information about the Honors Program as well as academic departments, athletics and the fine arts.

Federal Aid Programs

- Federal Pell Grants
- Federal Supplemental Educational Opportunity Grants
- Federal Perkins Loan Program
- Federal Work-Study Program
- Community Service
- Direct Subsidized Student Loan Program
- Direct Unsubsidized Student Loan Program

Federal Pell Grants

This is a federally funded grant program. Eligibility for the Pell Grant is determined from FAFSA information. Amounts vary based on the results of your FAFSA, the expected family contribution (EFC), and your semester credit hour enrollment (e.g., full-time or part-time). For the 2010-2011 year, the Pell grants ranged from $555 to $5550.

Federal Supplemental Educational Opportunity Grants (SEOG)

This is a federally funded grant program established to help students with exceptional financial need meet their educational costs. Eligibility is determined by the Financial Aid Office on the basis of financial need and the availability of funds. Applications received by February 15 for the upcoming academic year will receive priority consideration. Amounts of this grant typically range from $100 to $4,000.

Federal Perkins Loan Program

This program is a federally-funded loan program designed to help students meet the cost of their education. Eligibility is determined on the basis of financial need. Awards average $2000 per year. Undergraduate students may borrow up to $5,500 for each year of undergraduate study up to a maximum of $27,500. A student may borrow up to $60,000 for combined undergraduate and graduate study.

Perkins Loan borrowers are required to complete an online Perkins Master Promissory Note that outlines the borrower's rights and responsibilities. Students must complete a master promissory note before their loan funds can be disbursed.

Repayment of student loans begins nine months after the student graduates, leaves school, or enrollment drops below six credit hours. Students have a maximum repayment period of 10 years.

Federal Work-Study Program

This is a federally-funded employment program. Eligibility is determined by the Financial Aid Office on the basis of financial need and the availability of funds. Applications received by February 15 for the upcoming academic year will receive priority consideration.

This award gives students with financial need the opportunity to work on-campus or in a community-service position.

Students are limited to 20 hours of work per week when classes are in session. Students must be enrolled for a minimum of six credit hours to participate in this program. Hourly pay rates vary based on the position.

Federal work-study funds are usually awarded in combination with grant and/or loan funds. The university promotes the idea that a part-time job should complement the student's program of study whenever possible.

Federal work-study positions are conveniently posted on the student employment linkor by clicking "Employment Opportunities" from the CSU alphabetical listing.

Community Service Learning

Community Service Learning is an off-campus Student Employment Program. Eligible Cleveland State students must have a Federal Work Study award to participate in this program. Students participating in the Community Service Learning Program may be placed in positions at non-profit agencies throughout Greater Cleveland. Positions are limited, so you must check with the Student Employment staff for more information by calling 216-687-5577. Community Service Learning positions are conveniently posted on the student employment link or by clicking "Employment Opportunities" from the CSU alphabetical listing.

Direct Subsidized Student Loan Program

The Direct Subsidized Loan program is a need-based program in which the federal government defers the principal and subsidizes the interest while the student is enrolled for at least six credit hours. Students must

complete a FAFSA and a master promissory note. To review the terms and conditions of the loan, the student should visit www.StudentLoans.gov.

The Financial Aid Office certifies a student's eligibility for the loan based on the student meeting all financial aid eligibility requirements. . The amount a student may borrow is determined by the student's grade level and the cost of education, minus the expected family contribution and estimated aid.

All first-time borrowers at Cleveland State University must complete debt management counseling prior to the release of loan funds. The loan borrowing eligibility limits may be viewed online at www.csuohio.edu/enrollmentservices/financialaid/.

Direct Unsubsidized Student Loan Program

This loan program is available to students who may not qualify for the maximum amount of the Subsidized Federal Stafford loan for their grade level.

Interest is charged from the time the loan is disbursed until it is paid in full. Students may pay the interest while enrolled in school or allow it to accumulate and be added to the principal amount of the loan.

The loan amounts listed online are the maximum loan limits under the Direct Loan Program. However, students cannot borrow in excess of the cost of education at Cleveland State University minus any eligible financial aid.

Direct PLUS Loan (Parent Loan for Undergraduate Students)

This loan program is for parents of undergraduate students. Eligible parent(s)may borrow up to the cost of education, minus estimated financial aid.

Loan Disbursements

Direct subsidized, unsubsidized, PLUS and private loan proceeds are forwarded directly to the Cleveland State University's Office of Treasury Services.

State Supported Programs

- Ohio College Opportunity Grant
- Ohio War Orphans Grant
- Ohio National Guard Scholarship

Ohio College Opportunity Grants (OCOG)

The OCOG is a state-funded grant program for students who began college for the first time after the 2005 - 2006 academic year. Eligibility is determined based on the federal expected family contribution and credit hour enrollment. The amount of the grant for the 2010-21011 academic year was $888. This grant is also available for part-time degree-seeking students. The status of this program for the 2011-2012 academic year is being re-evaluated as part of the state budget.

Ohio War Orphans Grant

This undergraduate partial tuition grant is awarded on a renewable basis to children of members or former members of the U.S. Armed Services who incurred a disability or died while in service. This program is sponsored through the Ohio Board of Regents.

Each recipient must have a cumulative grade-point average of at least 2.0 by the end of the freshman year and must maintain no less than a 2.0 cumulative grade-point average for each subsequent academic term. The student must also be enrolled for at least 12 credit hours to receive this grant.

National Guard Scholarship Program

The state of Ohio funds this program to assist persons who enlist in the Ohio National Guard for at least six years. Awards cover the cost of instructional and general fees.

Eligible guardsmen should check the Ohio National Guard's website to apply for this program. Applications must be filed by the deadlines posted on their website: http://ong.ohio.gov/scholarship_index.html.

Private Scholarships

Private scholarship money comes from a variety of sources, including individuals, corporations, professional associations, organizations, alumni, and the university. The wide range of scholarships reflects the varied interests of the donors. The aim of all donors is to provide financial support to help students achieve their academic endeavors at Cleveland State University.

Descriptions of many of the scholarships awarded by the Financial Aid Office are listed on our website at http://www.csuohio.edu/enrollmentservices/financialaid/scholarships. Awards are subject to change based on the donor's wishes and/or the availability of funds.

Continuing students should complete the continuing student scholarship application available to download online at www.csuohio.edu/enrollmentservices/financialaid/scholarships.

Scholarship Opportunities for New Freshmen and Transfer Students

Cleveland State University awards scholarships to incoming freshman and transfer students based on academic performance. All admitted incoming freshmen will be automatically considered for academic scholarships. Scholarship notification will begin November 1, and continue on a funds available basis until May 1. Scholarship notification for incoming transfer students will continue on a funds available basis until July 1. To find out more about scholarship opportunities for incoming students visit **http://www.csuohio.edu/enrollmentservices/financialaid/scholarships** for a list of awards available for incoming students.

Scholarship/grant recipients must be new, first-time Cleveland State University students enrolled in a degree granting program, pursuing their first Bachelor's Degree and be a U.S. citizen or an eligible non-citizen defined by the U.S. Department of Education.

Part-Time Students

A large number of part-time students support themselves through full-time employment while working toward a degree. Depending on financial circumstances, part-time undergraduate students may qualify for federal, state and/or university financial assistance. Part-time students are encouraged to file the FAFSA.

Renewals

Grants and loans are available annually provided students maintain the required standards of academic progress and demonstrate financial need. Students must reapply for financial assistance each year.

Previousyear aid recipients should file the FAFSA online each year after January 1.

Concurrent Enrollment

CSU students who are concurrently enrolled at another institution may review the FAQs for consortium agreements to see if they may qualify for financial aid during their visiting student status at another institution.

CSU students may also attend area community colleges under approved partnership agreements. Financial aid for these students is awarded based on combined credit hour enrollment and individual partnership agreements made with the individual community college. Interested students may visit their community college partnership office for further information.

Professional Judgment

- Introduction
- Adjustments to Cost of Attendance
- Changes in Dependency Status
- Adjustments to Expected Family Contribution Calculation

Introduction

This section defines the components of professional judgment decisions and the guidelines issued by the U.S. Department of Education and implemented by the Cleveland State University Financial Aid Office. Professional judgment represents a key element in the student financial assistance delivery system — that is the capacity for personal intervention by the Financial Aid Office in cases that merit individual attention. In these cases, the family's situation is reevaluated. The support the family can reasonably be expected to provide toward the student's educational expenses may be adjusted based on changes in the family's income.

Adjustments to Cost of Attendance

The Cost of Attendance (COA) is set each year based on tuition costs and related educational expenses. The COA is established based on federal guidelines. A student may appeal for an increase in the COA by submitting in writing their request and accompanying documentation supporting their request.

Circumstances that may merit a review include but are not limited to:

- special transportation expenses,
- special expenses related to a disability,
- dependent/elder care,

Documentation of additional or unusual costs will generally consist of signed statements and documentation of the expense. A statement from an individual with specific knowledge of the expense, receipts of purchases, or other items necessary to substantiate the claim should be submitted with the request.

Changes in Dependency Status

A request for a dependency status override is considered by the Appeal Committee for applicants desiring to have their status changed from dependent to independent. Requests should be received within 30 days of the beginning of any semester for consideration in that semester. The committee will notify students of its determination after the receipt and review of all requested documentation.

Students requesting a dependency override should visit Campus411 and meet with a Specialist to review their circumstances. Students will be required to file a petition for a dependency override. The student will be asked to submit third party documentation on official letterhead.

Students will be required to document self-sufficiency and their ability to meet basic living costs. Exceptions to the documentation requirement may be allowed at the discretion of the Appeal Committee, when documented, mitigating circumstances exist. Unusual circumstances must always be explained in writing and corroborated by an outside source (social worker, counselor, other official).

Adjustments to Expected Family Contribution Calculation

The expected family contribution (EFC) may be reviewed upon receipt of the completed Special Circumstance Form (located on our website at http://www.csuohio.edu/enrollmentservices/financialaid/forms/). Reviews will be conducted by the Appeals Committee. Students will be notified of the results.

The Appeal Committee will assess the inclusion of an expected contribution from a non-custodial parent or a stepparent. Nontaxable income and benefits will be assessed according to the standard methodology or modified as necessary to take into account special circumstances. If substantial assets are reported or uncovered, the Appeal Committee may inquire about the nature of the assets and consider them in the decision about the EFC to the education of the student from those assets.

Other elements may also be considered when assessing adjustments to the EFC calculation, for special circumstances that fall under *one* or *more* of the items below:

- medical/dental expenses not covered by other agency or insurance;
- elementary/secondary school expenses;
- other unusual expenses.

When appropriate, additional supporting documentation required by the Appeal Committee will be verified to be acceptable.

Student Enrollment Changes that Can Reduce Financial Aid Eligibility

- Dropped Courses
    - Federal Pell Grants
    - Ohio College Opportunity Grants
    - Direct and PLUS loans
    - SEOG, Perkins Loans, Federal Work Study
- Official Withdrawal from the University
- Unofficial Withdrawal from the University
- Retroactive Official Withdrawals

Introduction

There are three types of enrollment changes that can reduce a student's financial aid eligibility after aid has been disbursed. These are:

- **dropped courses** - the course will not appear on the transcript,
- **official withdrawal** - withdrawal from all courses in a term (W grade),
- **unofficial withdrawal** - student does not earn any passing grades (passing grades are defined as an A, B, C, D, T, S) and the student has not withdrawn officially.

NOTE: Enrollment changes may affect a student’s eligibility for aid. Before adding or dropping classes, students are strongly encouraged to meet with their academic adviser and Campus411. Students must maintain a minimum of half-time (6 credit hours) in order to maintain Stafford and PLUS loan eligibility. For

detailed information regarding enrollment changes and the impact on your financial aid, visit the financial aid website at www.csuohio.edu/enrollmentservices/financialaid.

Dropped Courses

When a course is dropped, the course will not appear on the student's academic transcript. Drops occur during the published drop period.

Regardless of when the course drop occurs, dropping courses can affect the aid types listed below (and may affect others). If the award reduction/return of funds creates a balance owed on the student account, the student will receive a bill from the university.

Federal Pell Grants: Pell grants are based on the student's enrollment status: full-time awards (12 or more hours), three-quarter-time awards (9-11 hours), half-time awards (6-8 hours) and less-than-half-time awards (1-5 hours). If the course drop results in a student no longer being enrolled in sufficient hours for the Federal Pell Grant that he or she received, the Pell Grant must be reduced to match the new enrollment status.

Ohio College Opportunity Grants (OCOG): OCOG grants are based on the student's enrollment status: full-time awards (12 or more hours), three-quarter-time awards (9-11 hours), half-time awards (6-8 hours) and less-than-half-time awards (1-5 hours). The OCOG Grant must be reduced to match the new enrollment status.

Direct Stafford and PLUS loans: Students must be enrolled at least half-time (6 or more hours) to be eligible for a Stafford or PLUS loan. If the course drop results in a student being enrolled for less than 6 hours, all Stafford and PLUS loan funds must be returned to the lender.

SEOG, Perkins Loans, Federal Work Study: University regulations require that students be enrolled at least half-time (6 or more hours). If the course drop results in a student being enrolled for less than 6 hours, all SEOG and Perkins funds must be returned. All FWS earnings must be transferred to university employment.

Official Withdrawal from the University

When a student requests and receives a "W" in all courses, she or he is considered to have officially withdrawn from the university. Students who withdraw prior to completing 60% of the term have not earned all of their federal financial aid and a Return of Funds calculation must be performed. The unearned portion of the aid (based on the percentage of the term remaining) is returned to the aid program.

For example, if a student completes only 20% of the term, then he or she has failed to earn 80% of the federal financial aid that was disbursed, or could have been disbursed, prior to the withdrawal. If the return of the funds creates a balance due on the student's account, the student will receive a bill from the university.

Unofficial Withdrawal from the University:

Students who stopped attending all of their classes prior to the end of the term and who do not receive ANY earned grades (A, B, C, D, T, S) are considered to be unofficial withdrawals. Fifty percent of the aid used to pay direct educational costs (tuition, fees, room and board) must be returned to the aid program. If the return of the funds creates a balance due on the student's account, the student will receive a bill from the university.

Retroactive Official Withdrawal from the University

If funds have been returned for a student as a result of an unofficial withdrawal, those funds cannot be reinstated, even if the student petitions for and receives a retroactive official withdrawal (all W grades).

Satisfactory Academic Progress Standards

- Introduction
- Grade-Point Averages
- Completion Rate Requirement
- Maximum Time Frame for Degree Completion
- Impact of Selected Grades
- Financial Aid Warning
- Loss of Eligibility
- Regaining Eligibility
- Petition for Reinstatement of Financial Aid Eligibility

Introduction

Students must achieve satisfactory academic progress (SAP) toward their degree in order to maintain eligibility for most types of financial aid. To maintain SAP students must meet the following three components: grade-point average, completion rate requirement, and maximum time frame for degree completion. Additionally, students must be eligible to continue in their program of study.

Satisfactory academic progress is evaluated at the end of each term for which the student is in attendance. Students who do not meet the grade-point average and completion rate requirements are given one term of financial aid warning. Failure to meet all the requirements (grade-point average, completion rate requirement, and maximum time frame for degree completion) at the end of the warning term will result in loss of federal financial aid, state and institutional need-based financial aid. Students who do not earn their degree within the specified time frame become ineligible for financial aid as soon as they reach the specified maximum time frame for their program of study.

Students may petition to have financial aid reinstated. See Regaining Eligibility and complete the SAP Petition for Financial Aid found at http://www.csuohio.edu/enrollmentservices/financialaid/forms/.

Grade-Point Average (GPA) Requirements

Undergraduate Students: All undergraduate students must:

- maintain a minimum cumulative GPA of 2.0 and
- earn a term GPA of not less than 1.0.

Students who fail to maintain a cumulative GPA of 2.0 or receive a GPA below 1.0 for any given term will receive one term of financial aid warning. Students who do not meet the GPA requirements at the end of their warning term are ineligible to continue receiving financial aid.

Graduate Students*:* All graduate students must:

- maintain a minimum cumulative grade-point average of 3.0 and
- remain eligible to continue in their program of study at CSU. Students who are dismissed by the university or by their graduate college are ineligible for federal financial aid for the program from which they were dismissed.

Law Students: All law students must:

- maintain a cumulative grade-point average of 2.0 upon the completion of their first spring semester and all semesters of attendance thereafter, including summer.

Completion Rate Requirement

See Impact of Selected Grades on SAP Requirements *regarding the treatment of incomplete grades, withdrawals, the absence of letter grades and the treatment of transfer credits in the measurement of Completion Rate Requirement*.

Undergraduate, Graduate and Law:

Students must successfully complete at least two-thirds of their attempted credit hours each term. Successful completion is defined as receiving a grade of A, B, C, D or S.

Multi-term courses, in which a “T” grade is assigned pending completion of the final term, are treated as being successfully completed during the initial term.

Maximum Time Frame for Degree Completion

See Impact of Selected Grades on SAP Requirements *regarding the treatment of incomplete grades, withdrawals, the absence of letter grades and the treatment of transfer credits in the measurement of Maximum Time Frame*.

Undergraduate Students:

Students are ineligible for federal financial aid once they have attempted credit hours that equal or exceed 150% of the credit hours required for their program of study.

- Bachelor's Degree: 192 attempted credit hours

***Graduate Students*:** must complete their degrees within the following time frames:

- Six years from the date of entry into the graduate college to complete the master's degree.
- Six years from the date of entry into the doctoral program to complete doctoral studies, if the student entered the program with a master's degree from another university or interrupted his/her studies after completing the master's degree program at Cleveland State University.
- Ten years from the date of entry into the graduate college to complete a doctorate, if the student enrolls consecutively in the master's and doctoral programs without interruption of one academic year following receipt of the master's degree.

Law Students:

- Five years from date of entry into Law College to complete the JD program.
- Six years from date of entry, for students who take more than 43 credit hours as a part-time student, to complete the JD program.
- Eight years from initial matriculation as a dual degree student to complete the JD/MPA, JD/MUPDD, JD/MBA, or JD/MAES program.

Impact of Selected Grades on SAP Requirements

The Financial Aid Office has specific policies defining the effect of incomplete grades, withdrawals, absence of assigned letter grades, and transfer credits in the measurement of completion rate and maximum time frame.

Incomplete Grades: Credit hours in which a student receives an "I" are included in the number of attempted hours but do not count as successfully completed hours.

Withdrawals: Credit hours in which a student receives a grade of “W” are included in the number of attempted hours but do not count as successfully completed hours.

Absence of an assigned letter grade: Credit hours in which a student receives a grade of I, U, W, or X are included in the number of attempted hours, but do not count as successfully completed hours. Multi-term courses, in which a “T” grade is assigned pending completion of the final term, are treated as successfully completed during the initial term.

Transfer credits: Transfer credits are included in the total number of attempted hours for the measurement of maximum time frame.

Repeated hours: Hours for repeated courses and the initial hours for those courses are all included as attempted hours.

Academic Reassessment: The financial aid SAP measurement is always based on the grades and the completion rate of the student's attempted hours, not the adjusted credit total that may result from academic reassessment.

Financial Aid Warning

Those students who were not on financial aid warning but who did not meet the GPA or completion rate requirements will be placed on financial aid warning for their next academic term. Their progress will be measured again at the end of the warning term.

Those students who were on financial aid warning and who did not meet the SAP GPA or completion rate requirements become ineligible for federal financial aid, as well as for state and institutional need-based financial aid. Such students may complete the SAP Petition for Financial Aid found at http://www.csuohio.edu/enrollmentservices/financialaid/forms/. If the petition is approved, the student's probationary period will be extended for one term and the student will be eligible to receive financial aid during the extended probationary term.

Loss of Eligibility

Students become ineligible for federal financial aid, as well as for state and institutional need-based financial aid, when:

- they fail to meet the GPA or completion rate requirements at the end of their warning term.
- they have attempted the maximum allowable credit hours for their program of study. (If a student reaches the maximum time frame during an award year, any aid that has been awarded for future terms will be canceled.)
- they are dismissed by the university or their graduate college.

Regaining Eligibility

A student who is ineligible for financial aid due to failure to make satisfactory academic progress during the warning term may complete the SAP Petition for Financial Aid found at http://www.csuohio.edu/enrollmentservices/financialaid/forms/. If the petition is approved, the student’s probationary period will be granted for one term and the student will be eligible to receive financial aid during the extended probationary term.

A student who regains eligibility either by meeting the satisfactory academic progress standards or by approval of her/his petition for reinstatement may be eligible for Federal Pell Grants, Supplemental Educational

Opportunity Grants, Perkins Loans, Federal Work Study, Federal Stafford Loans, and state need-based aid, beginning with the term in which they are determined to be eligible.

A student who has lost eligibility for financial aid, and who later attends school without receiving financial aid, may regain her/his eligibility by meeting the GPA and completion rate requirements as stated in the current Financial Aid SAP Policy.

Petition for Reinstatement of Financial Aid Eligibility

A student who wishes to petition for reinstatement of financial aid eligibility, may submit a written petition to the Financial Aid Office. In order to submit a petition, the student must complete both sides of the Petition for Reinstatement of Financial Aid (available http://www.csuohio.edu/enrollmentservices/financialaid/forms/) and attach documentation, as necessary. Students should clearly explain the mitigating circumstances that contributed to the failure to meet satisfactory academic progress.

Students are encouraged to schedule an appointment to meet with their academic adviser to discuss academic progress and to identify ways to improve their academic performance.

Petitioners will receive a written response not more than four weeks after submitting the necessary information. If the petition is denied, the student will be responsible for all charges incurred as a result of the loss of federal and state need-based financial assistance.

Special Programs

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College Information

- Monte Ahuja College of Business
- College of Education and Human Services
- Fenn College of Engineering
- Cleveland-Marshall College of Law
- College of Liberal Arts and Social Sciences
- College of Science
- Graduate College
- Maxine Goodman Levin College of Urban Affairs

- Active Minds/Project 60 Program
- AHANA Peer Mentoring Program
- Air Force ROTC
- Army ROTC
- Athletics
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- Division of Continuing Education
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- Women's Comprehensive Program

The AHANA Program

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- Description
- Go to AHANA Program website

Description

The AHANA Program (**A**frican American, **H**ispanic, **A**sian and **N**ative **A**merican, an acronym used widely at colleges and universities across the nation) is a university retention effort designed to assist first-year students at the critical point of entry to the university to adjust to the demands of college-level course work. The AHANA Program provides support to students throughout their matriculation at the university. This support includes facilitating adjustment to university life; fostering broad understanding of university support services; and providing support networks of committed staff, faculty, administrators and peer mentors to guide the students successfully toward graduation from Cleveland State University.

Four peer mentoring programs focused on under-represented groups in higher education reach out to incoming freshmen to assist in their transition to college: Black Male Initiative (*Kikundi*), Black Women Initiative (*Nia*), Hispanic Retention Initiative (*Juntos Podemos*), Native American Retention Initiative (*561*), and Asian Initiative (*AzN*). The programs operate similarly under the umbrella of the AHANA Program.

Examples of the mentoring programs include the Hispanic Retention Initiative (*Juntos Podemos*), which reaches out to all incoming Hispanic students to introduce them to strategies for success at Cleveland State. A graduate assistant maintains close contact with students to ensure use of peer mentoring, social and academic support services, and the career exploration process. This initiative facilitates interaction among Hispanic students with others of similar cultures to form networks of support. The AHANA staff organizes student participation in Hispanic Awareness Month to further enhance involvement on campus. The Black Male Initiative (*Kikundi*) was established by the Office of Diversity and Multicultural Affairs in 1991 to address the low rate of retention and graduation of African-American males at the university. This initiative strives to increase the retention, achievement, graduation, and leadership skills of African-American males. Participants attend workshops, lectures, off-campus retreats, intramural sports, and local and national conferences.

The AHANA Program is located in Rhodes Tower 1254 and can be reached at (216) 687-9233; to learn more about the program, visit the website at http://www.csuohio.edu/offices/odama/ahana or email s.archer@csuohio.edu.

Air Force ROTC (Aerospace Studies)

- Overview
- Curriculum Registering
- Miscellaneous
- Financial Assistance
- Contact Information
- AF Courses
- Go to Air Force ROTC Web site for further information

Overview

The Air Force ROTC program provides professional preparation for students considering service as officers in the U.S. Air Force. The program also offers information on Air Force career opportunities and the role of the military in the American society. Courses in AFROTC are offered to Cleveland State students through a cross-town agreement with Kent State University (KSU). Students enrolled in AFROTC receive Cleveland State credit for the courses; however, the courses are taken at KSU.

Curriculum
Registering

Courses are normally taken for academic credit as part of the students' electives. Entering freshmen and sophomores may register for Aerospace Studies courses at the same time and in the same manner as they enroll in their other college courses. Juniors and seniors wishing to enroll in AFROTC should call the AFROTC Unit Admissions Officer prior to enrollment to discuss the particular requirements.

The curriculum in Aerospace Studies is divided into two parts: the General Military Course (GMC), usually taken during the freshman and sophomore years, and the Professional Officer Course (POC), normally taken during the junior and senior years. Students who qualify will attend a four- (or five-) week Field Training Encampment, usually between their sophomore and junior years. Air Force officers are assigned as full-time faculty members and teach all Aerospace Studies courses.

Students register for an Aerospace Studies course and Leadership Laboratory. Freshmen may register for AF 101 and 103 for the fall term and AF 102 and 104 for the spring term. Sophomores may register for AF 201 and 203 for the fall term and AF 202 and 204 for the spring term. Juniors will register for AF 301 and 303 for the fall term and AF 302 and 304 for the spring term. Seniors in the AFROTC program will register for AF 401 and 403 for the fall term and AF 402 and 404 for the spring term.

Miscellaneous

Uniforms and textbooks are provided at no charge to all students enrolled in AFROTC. Textbooks are returned upon completion of each academic year or upon withdrawal from the course.

Veterans with previous honorable U.S. military service who wish to enroll in the POC may be eligible to receive a waiver of either the GMC or its equivalent as an entrance requirement. Veterans who meet all other requirements will be enrolled at the beginning of the junior year.

Financial Assistance

In-College Scholarship Program

Students who demonstrate academic and leadership potential may be nominated by the professor of Aerospace Studies to compete for scholarships. These scholarships are for three or two years, and are awarded in all majors. The scholarship award includes tuition, laboratory fees, $900 annual textbook allowance and a monthly stipend of $300 to $500, tax-free.

Scholarship Statement of Understanding

Air Force ROTC scholarship recipients must meet and maintain certain academic and military retention standards and serve in the active-duty Air Force after graduation.

Incentive Program

Air Force ROTC students completing Field Training and successfully entering the Professional Officer Course (juniors and seniors), who are not already on scholarship, are eligible to receive $450 to $500 per-month stipend, tax free. Cadets must be in good academic standing.

Contact Information

For further information, contact the Department of Aerospace Studies, AFROTC DET 630, 104 Terrace Hall, Kent State University, Kent, Ohio 44242 at 330-672-2182, or e-mail det630@kent.edu.

Army ROTC (Military Science)

- General Information
- Basic Program
- Advanced Program
- Scholarships
- Eligibility
- Contact Information
- MSC Courses
- Go to Army ROTC Web site

General Information

The Department of Military Science is also known as the Reserve Officers Training Corps (ROTC) department. Military Science basic courses are open to all students as electives. The department provides instruction to the student body in general on the role of the military in America. Such instruction includes military skills, leadership, adventure training, and the role of the military in society.

The department is both an academic entity of the university and an Instructor Group of the United States Army. It is staffed by the Army with approval of the university president. The instructors are professional Army officers whose academic backgrounds meet standards set by the university.

The goal of Army ROTC is to prepare young men and women for service as Army officers. Students will explore and evaluate the Army's career opportunities offered upon graduation with baccalaureate degree. The ROTC program also accommodates students enrolled in graduate degree programs. Courses in the Military Science Basic Program (see MSC I & MSC II below) are offered at Cleveland State University. Courses in the Military Science Advanced Program (see MSC III & MSC IV below) are offered to Cleveland State students through cross-enrollment with John Carroll University. Students enrolled in advanced Army ROTC receive Cleveland State credit for the classes; however, the instruction is given at John Carroll.

Basic Program
(MSC I, MSC II)

Students normally take the Basic Program courses during the freshman and sophomore years. Classes are usually taken for academic credit as part of a student's electives. The Army ROTC Basic Program consists of MSC I and MSC II. MSC I has two courses: MSC 101 (Introduction to Military Science) in the fall semester and MSC 102 (Introduction to Leadership) in the spring semester. MSC II courses include MSC 201 (Self/Team Development) in the fall and MSC 202 (Individual/Team Military Tactics) in the spring. Students taking any or all of the basic courses incur no military obligation and are not part of the Armed Forces. Completion of the four basic course classes (MSC 101, 102, 201, & 202) is a prerequisite for acceptance into the Advanced Program (MSC III & MSC IV). Prior military service, current Army Reserve or National Guard status, or attendance at the Army ROTC Leadership Training Course at Fort Knox, Ky., during the summer may also fulfill the Basic Program requirement.

Advanced Program
(MSC III, MSC IV)

Students normally take the Advanced Program courses during their junior and senior years. These courses include MSC 301 (Leading Small Organization I), MSC 302 (Leading Small Organization II), MSC 401 (Leadership Challenges and Goal-Setting), and MSC 402 (Transition to Lieutenant). In addition, the Advanced Program includes a weekly Leadership Lab with emphasis on exercises in leadership, tactics, land navigation,

communications, physical fitness, operations planning, and military customs. Each course also includes a three-day field training exercise during the semester.

Students must be accepted by the chair of the Military Science Department at John Carroll University before they can enroll in the Advanced Program courses. Once accepted, each student enters into a contract to complete the courses and to accept a commission as an Army officer upon graduation. While enrolled in the Advanced Program, each contracted student is paid a subsistence allowance of $300-500 a month during the school year. All students enrolled in the Advanced Program are required to attend a five-week Leadership Course at Fort Lewis, WA, during the summer between their junior and senior year.

Upon satisfactory completion of the advanced courses and award of the baccalaureate degree, students are commissioned as second lieutenants and serve out a military obligation of at least four years, depending on their active or reserve force assignment. Students may request either Active Duty or Reserve Force Duty (Army Reserve/National Guard). Under certain conditions, students who have completed the baccalaureate program and their military science studies may request delayed entry into the active Army to pursue some types of graduate studies, such as medical and law school. Other options available to students in military science are opportunities to attend Airborne, Air Assault, Northern Warfare, and Mountain Warfare training courses.

Scholarships

The U.S. Department of the Army annually awards four-year and three-year scholarships on a competitive basis to high school students nationwide. Winners are announced in early spring. College students can apply for a campus-based Army scholarship in the fall or spring semester of their freshman or sophomore year. In order to apply for any of these scholarships, applicants must have a GPA of 2.5 or better, a minimum SAT score of 920 or an ACT score of 19, pass the Department of Defense medical physical, and meet the Army physical fitness requirements. Two-year scholarships are also available to graduating seniors who will be attending graduate school.

Scholarships based upon merit are awarded for up to $17,000 annual tuition. Scholarships also include lab fees, a book allowance of $1,200 per year, and a monthly subsistence of $300 to $500 during the academic year.

Eligibility

All university students are eligible for enrollment in the basic courses (MSC I and MSC II). Students who are 18 years of age, who are American citizens or intend become naturalized, and who are physically qualified are eligible for enrollment in the advanced courses of the Military Science department. Any student may audit basic courses in the department with the approval of the chair and appropriate institutional authorities.

Point of Contact

For additional information about the Army ROTC program, contact the Department of Military Science, John Carroll University, at 216-397-4421.

Athletics

Description

- Go to Athletics website

Cleveland State University's Viking sports teams compete in the National Collegiate Athletic Association (NCAA) Division I. The University sponsors programs for 17 intercollegiate sports -- nine for women and eight for men. The Vikings are members of both the Horizon League and Eastern Wrestling League, which gives Cleveland State's student athletes the chance to regularly compete against some of the best athletes in the country. Cleveland State University student athletes represent the university community at local, regional, national and international competitions, including the NCAA Championships and the Olympics. More than 40 Viking student athletes have been selected as All-Americans in their respective sports.

Viking student athletes learn some of life's most valuable lessons -- sacrifice, preparation, teamwork, competition and resiliency -- while representing Cleveland State in the classroom and the community. In the classroom, the cumulative GPA for Cleveland State's more than 250 student athletes is consistently near 3.0. University teams regularly rank among the nation's academic best, with many having been named Academic All-Americans. Cleveland State's Athletic Academic Advising Office coordinates an extensive support system, including study halls and tutoring.

Community service is a cornerstone of Cleveland State University athletics. Viking student athletes, led by the university's Student-Athlete Advisory Council, participate in a variety of volunteer activities ranging from tutoring to adopt-a-school programs.

Black Studies Program

- Introduction
- Black Studies Academic Program
- The Dr. Howard A. Mims African-American Cultural Center
- The Black Studies Lecture, Arts and Media Series
- Jazz Heritage Orchestra
- "Images," A Weekly Forum
- Black Aspirations Week
- Go to Black Studies Web site

Introduction

The broad mission of the Cleveland State University Black Studies Program is to provide the university community and the Greater Cleveland community with opportunities to acquire greater knowledge and a broader understanding and appreciation of the history, life, arts, culture, and experiences of African peoples and peoples of African descent on the African continent, in the United States of America, and throughout the African Diaspora. The time-span that encompasses this study of Africa, Africans, and peoples of African descent extends from the beginnings of ancient African civilization to the present.

The Black Studies Program seeks to provide information, dialogue, and experiences that contribute knowledge that serves to shape attitudes and behaviors necessary for living and working effectively and harmoniously in a multiracial, multiethnic, and multicultural society.

The Black Studies Program is a member of the College of Liberal Arts and Social Sciences (CLASS). The director of Black Studies reports to the Dean of CLASS. The Black Studies staff consists of the director who oversees all operations, programs and activities of the Black Studies Program; the coordinator of the Dr. Howard A. Mims African American Cultural Center, who is also the assistant to the director; the coordinator of administrative services; and a secretary. The Black Studies Program provides activities and services for the enrichment, education, and enjoyment of all Cleveland State University students, faculty, and staff as well as the Greater Cleveland community.

The Black Studies Program seeks to carry out its mission through the following six instruments:

- The Black Studies Academic Program
- The Howard A. Mims African American Cultural Center
- The Howard Mims Lecture, Arts and Media Series
- The Jazz Heritage Orchestra
- IMAGES, a weekly Black Studies radio forum
- Black Aspirations Week

Black Studies Academic Program

- See also Black Studies Minor in this Catalog

The Cleveland State University Black Studies Program offers a major and an interdisciplinary minor in Black Studies through approximately 87 Black Studies courses taught in 20 different departments that are housed in the College of Liberal Arts and Social Sciences, the College of Education and Human Services, the College of Urban Affairs and the College of Science. These courses include the contributions of Africans and persons of African descent throughout the Diaspora to literature, arts, culture, religion, music, drama, science, technology, education, health, communication, and dance. The courses focus on information about African and African-American experiences in slavery, emancipation, segregation, desegregation, protests, and revolts, as well as

the study of black institutions, organizations, businesses and the urban experience. These courses explore the politics, philosophy, psychology, and sociology of the Black experience.

The director of Black Studies, with the assistance of Black Studies professional staff members, is responsible for the administration of the minor in Black Studies. Administration responsibilities include advising students who elect a minor in Black Studies. This is done in conjunction with a member of the interdisciplinary Black Studies faculty. The director of Black Studies also serves as adviser to students pursuing a Personally Designed Major (PDM) in Black Studies. The director of Black Studies is responsible for communicating with the faculty who teach the Black Studies courses and with chairpersons of departments in which Black Studies courses are taught in order to encourage the establishment of additional courses and to facilitate the smooth functioning of the Black Studies Academic Program. For more information, contact the director of Black Studies at 216-523-7211.

The Dr. Howard A. Mims African American Cultural Center

- Go to Dr. Howard A. Mims African American Cultural Center website

The Black Studies Program operates the Dr. Howard A. Mims African American Cultural Center located in Room 137 of Main Classroom. The center's programs include Umoja Round Tables, Kuumba Arts Presentations, Curtis Wilson Colloquium Series Lectures, the Black Studies Ambassadors, as well as Bridges to Africa Panels and Celebrations. These programs feature revolving exhibits, engagements with performing artists, formal colloquia, films and video recordings about African American, African and African Diaspora history, life and culture. The Dr. Howard A. Mims African American Cultural Center is also designed to assist with student retention initiatives and provides an aesthetically enhanced atmosphere, where students are invited to relax, engage in formal or informal discussions, study and receive tutoring. This space is available for meetings by students, faculty/staff groups and organizations, as well as community organizations and groups aligned with the mission of the Black Studies Program.

The Dr. Howard A. Mims African American Cultural Center is open to students, staff, faculty and the general public Monday through Thursday from 8 a.m. to 8 p.m. and Friday from 8 a.m. to 5 p.m. The coordinator of the Dr. Howard A. Mims African American Cultural Center should be contacted for scheduling events during regular hours or for use of the center on special occasions. For more information, contact the coordinator of the Dr. Howard A. Mims African American Cultural Center/assistant to the director of Black Studies at 216-687-3656.

The Black Studies Lecture, Arts and Media Series

- Go to Black Studies Lecture, Arts, and Media Series website

The director of the Black Studies Program and other members of the Black Studies staff are responsible for bringing to the university and the Greater Cleveland community outstanding speakers, the creative work of visual and performing artists, videos, and film. The director—in conjunction with the Black Studies staff, a student advisory council, a community advisory council, and members of the interdisciplinary Black Studies faculty—is responsible for presenting this annual series, which is an extension of the Black Studies Academic Program. One purpose of the Lecture, Arts and Media Series is to preserve and perpetuate vital aspects of African, African American, and the African Diaspora cultural experiences, especially those artists and programs of high quality, which are often neglected. Cleveland State University students are especially encouraged to take advantage of these culturally enriching and highly educational activities and events which are designed to be an extremely vital part of their total college experience. Special efforts are also made to make these events of the Lecture, Arts and Media Series available to all segments of the general public. For more information, contact the secretary of the Black Studies Program at 216-687-3655.

Jazz Heritage Orchestra

- Go to Jazz Heritage Orchestra website

In 1998, with a small band of supporters, the late Dr. Howard A. Mims, professor emeritus and former director of the Cleveland State Black Studies Program, founded the Jazz Heritage Orchestra (JHO). They envisioned the establishment of a world-class orchestra with a three-fold mission: primarily, to preserve and perpetuate the musical heritage of the great African American jazz masters, who were its primary creators and major innovators, through the education of young people and the general public by offering educational residencies, clinics, workshops and master classes; secondly, to present jazz to all strata of society through concert performances, festivals and conferences; and thirdly, for the Jazz Heritage Orchestra to create its own legacy by producing new music. These professional musicians are world-class jazz performers and highly competent music educators committed to taking jazz music and its history into the schools and other learning venues. The Jazz Heritage Orchestra is a 17-piece not-for-profit jazz orchestra officially in-residence in the Black Studies Program at Cleveland State University. JHO offers ensembles ranging from trio to a 12-piece band. Dennis Bradley Reynolds, former lead trumpeter with the Count Basie and Clark Terry Big Bands, is the artist director. For information, call 216-687-5461 or e-mail jazzhorch@csuohio.edu.

"Images" Radio Forum

- Go to "Images" website

"Images" is a weekly Black Studies Program radio forum. The office of the Black Studies Program is responsible for producing the program, which is hosted by the director of the Black Studies Program. The director serves as executive producer. Engineering services are provided by Cleveland State's Instructional Media Services in the IMS studio where the forums are recorded for future broadcast. "Images" is heard each week on two Cleveland area radio stations: WZAK-FM (93.1) Sunday, 6 a.m. and WCSB-FM (89.3) Wednesday at noon. In addition to discussions and conversations with local, national and international guests, "Images" is used to promote activities and events of the Black Studies Program as well as activities of other departments and units of the university. For more information, call 216-687-3655.

Black Aspirations

- Go to Black Aspirations website

The goal of Black Aspirations Week is to highlight the accomplishments and achievements of African/African Americans throughout the Diaspora. Speakers, artists, and others are brought to the Cleveland State University campus to educate students and community residents regarding the diverse contributions made by African/African Americans. Most Black Aspirations events are free and open to the public.

Continuing Education

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Description

Continuing Education has a long history at Cleveland State University, and we are very proud to offer a variety of courses and workshops through our academic units. Northeast Ohio benefits from CE's professional development programs and offers local communities the opportunity to gain knowledge, pursue personal enrichment, and obtain licensure or CEU's.

Please visit our website for more information: http://www.csuohio.edu/ce/

- English as a Second Language (ESL) and Intensive English Language Program
- Hazmat Courses & Emergency Preparedness
- Business and Management and Computer/IT Programs
- College of Education, CASAL (Training and Development Certificate Program)
- Nursing Refresher and Patient Advocacy
- Courses for Social Workers
- Test Prep - GRE, GMAT, LSAT
- Non - Credit Language Courses
- Center for Leadership Development
- College of Education, CASAL (Counseling Courses)
- Fitness for Life
- Board of Examiners of Nursing Home Administrators(BENHA)
- Diversity Management
- Engineering - Nondestructive Evaluation of Concrete Infrastructure

Cooperative Education

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Introduction

Through the Cooperative Education Program, students can explore career and academic options, pretest career choices, put academic theories to work with professionals in their field, polish personal and professional skills, and earn money to contribute to their educational costs. Cleveland State University offers the Cooperative Education Program in all undergraduate fields of study and most graduate programs. Co-op students work in positions that are closely related to their academic areas of study and career interests. Work experiences are typically scheduled during alternate semesters beginning in the sophomore year. In some cases a parallel schedule of part-time work is available.

Eligibility

There are three basic requirements for admission to the Cooperative Education Program: Students must have earned at least 30 semester hours, be in good academic standing prior to the first assignment, and have completed the one-credit-hour CSC 121 Career Orientation course. Transfer students are also eligible to participate in co-op.

Application for admission usually is made in the freshman year or, in the case of a transfer student, during the first semester on campus. Application requirements are satisfied when the student completes CSC 121, which presents detailed regulations and procedures for obtaining the greatest value from the co-op program and aids students in clarifying their career goals and sharpening their job-search skills.

Academic Credit

All co-op students are required to register their co-op experience with the university. CSC 300 provides for academic credit in recognition of the educational value of the cooperative education experience. In this way, one credit is given for each co-op experience completed. This credit is not counted toward the number of hours needed for graduation, but it will add academic hours to a student's credit total. The academic credit maintains a student's full-time status while on a co-op job. CSC 400, a non-credit option, is also available. However, CSC 400 does not maintain a student's full-time status.

Administration

The Cooperative Education Program is administered by the Career Services Center. During the Career Orientation course, students are assigned to a career coordinator. The coordinator acts as a liaison between the university and the working community, developing co-op opportunities and maintaining an effective rapport with all program participants.

Co-op Job Placement and Scheduling

Co-op employers include a wide range of businesses and industries, governmental, social service agencies, and school systems. Jobs are developed with employers who will provide a meaningful work experience, the standard rate of pay for the work being performed, and a careful evaluation of the student at the completion of the work semester.

Coordinators help students in the entire placement process, providing counseling and contacts. Students then apply directly to the employer and are hired on their own merits. Students must register for CSC 300 or CSC 400 (Co-op Field Experience) during each semester in which they have a work assignment.

The co-op schedule, showing the semesters the student will be in school and when the student will be at work, is prepared by the coordinator in consultation with the student and the appropriate academic adviser. The co-op student typically alternates periods of being at work and at school from the end of the freshman year to the beginning of the senior year. Two students are often paired with the same employer, thereby keeping a designated co-op position filled at all times. Variations in length and pattern of co-op schedules are considered on an individual basis with many factors being considered.

Students enrolled in the Cooperative Education Program are expected to comply with all of the policies, rules, and procedures governing the program, which are explained further in the Career Orientation course.

Honors Program

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Description

The Honors Program offers an academically challenging program and financial support to highly qualified students seeking an enriched undergraduate education. Each year, 40-50 lower-division applicants and 20-25 juniors are admitted to the program. Students in the program must maintain an overall GPA of 3.5, enroll in special Honors general education courses, and complete augmented academic majors that offer the opportunity to work directly with faculty and to develop research and other intellectual and practical skills. Honors students receive special advising services and are encouraged to pursue intellectual challenges, to perform community service, to travel and to aspire to graduate and professional education. Upon graduation, Honors students receive “University Honors” distinction on their diploma.

Scholarship Opportunities: Renewable scholarships will be offered to lower-division and upper-division-entry Honors Program students.

Who May Apply

First-year students

For lower-division students, the minimum criteria for admission include:

- 3.5 high school GPA AND
- 30 ACT composite score OR
- 1950 SAT total score OR
- Top 10 percent of high school class ranking
- Admission to Cleveland State University
- Submission of a written essay

Funding for Honors scholarships comes from a variety of sources. To allow us to fund as many students as possible, we encourage students to file a FAFSA.

Students are expected to complete a college preparatory curriculum in high school. High schools vary in the advanced courses they offer. Honors applicants are expected to complete the most rigorous curriculum available at their high school. Applicants who participate in the Post-Secondary Enrollment Options Program are expected to have completed the standard high-school college preparatory curriculum in addition to their college work.

Preferred applicants will have four years of high school English; four years of high school mathematics including pre-calculus and in some cases calculus; at least three years of natural science, usually biology, physics and chemistry; at least three years of social science courses; three or more years of a foreign language; and additional classes in the visual or performing arts.

A very small number of international students are admitted to the program each year. Successful applicants are exceptionally well-qualified.

The application for the Honors Program may be downloaded from the Honors website at www.csuohio.edu/honors/.

Juniors

Students applying to the Honors Program for admission as juniors must satisfy the following minimum criteria:

- 3.5 GPA or higher on college courses
- Admission to Cleveland State University
- Junior-level standing by fall of entry into program (the student should be on track to graduate in two years after entering the Honors Program)
- Submission of a written essay
- Submission of three letters of recommendation

College transcripts will reflect a rigorous course of study both in the student's preferred major and in his or her choices for general education and elective courses. Students should have made good progress toward completion of general-education course requirements and lower-division prerequisites for courses in their major.

The application for the Honors Program may be downloaded from the Honors website at www.csuohio.edu/honors/.

Application Deadlines

Applicants entering as lower-division students are required to apply by January 15. Applicants with junior-status must apply by February 28.

Curriculum

Universal Honors Experience: Students entering the Honors Program as lower-division students are required to complete a total of EIGHT Universal Honors Experience courses, of which four must be credit-bearing courses. Those entering as upper-division students must complete FOUR such courses, two of which must be credit-bearing courses. A range of Universal Honors Experience courses is offered each semester. These are designed to bring together students in the program and engage them in a variety of academic and recreational activities as a group.

Lower-Division Program: All Honors students who begin as entering first-year students will be required to take at least FOUR general education Honors courses (16 credit hours). Students are strongly advised to complete these in their first two years at CSU. Honors general education courses are restricted to Honors and University Scholars students, are taught in small sections by outstanding members of the faculty, and are designed to give students a more challenging experience than a standard, introductory-level general education course. Some are augmented versions of conventional general education offerings; others are specially designed courses not offered outside the Honors Program at CSU.

Upper-Division Program: The Honors experience for upper-division Honors students is tailored to the requirements of each student's chosen major(s) and specific goals. Junior and senior Honors students' courses are selected through consultation with faculty members in their major(s). Students develop an Honors Academic Plan Contract, which must be approved by their Honors Adviser and the Director of the Honors Program. Upper-division Honors students have the opportunity to do additional honors work under faculty supervision in established courses; enroll in graduate courses; participate in a faculty member's research project or laboratory; complete an independent research project or a service learning project; and/or engage in an internship, co-op experience, or job. In some departments, students will also be encouraged to attend professional meetings.

Consult our website for the most current information: www.csuohio.edu/honors/.

Contact Information:
Dr. Peter Meiksins, Director
Cleveland State University Honors Program, MC 412
1899 Euclid Ave., Cleveland, OH 44115-9897
Telephone: 216-687-5559

Departmental Programs

Students with high grade-point averages and a desire for academic challenge should be aware that several departments offer separate, departmental honors programs for their students. These include: Art; Biological, Geological, and Environmental Sciences; Economics; History; Modern Languages; Physics; Psychology; and Sociology. Details can be found in the program descriptions for these departments.

University Scholars Program

Description

The University Scholars Program exists to provide additional scholastic opportunity to very talented students. Students who may want to participate in the Scholars Program include traditional students who took honors courses in high school, or students with high grade point averages or standardized exam scores. The University Scholars Program recognizes and rewards high-performing students. Upon successful completion of a rigorous Scholars curriculum, academic honors are listed on the student's transcript and diploma. Scholars must meet several benchmarks to stay in the program. As a Scholar, a student has the opportunity to take more challenging courses, work directly with professors on scholarship-related projects, and enroll in special sections of designated courses. Opportunities for internship experiences will also be available for Scholars with certain majors.

Who May Apply

Students meeting any of the following criteria will be automatically invited to join the University Scholars Program:

- 3.5 high school GPA
- Top 15% high school class rank
- 27 or higher ACT composite score
- 1800 or higher SAT total score

Students not automatically invited are encouraged to make application to the program. Transfer students may also apply to the program if they have fewer than 90 credit hours and can demonstrate that they can complete the upper-division requirements for their major. A minimum cumulative 3.35 GPA from previous college-level work is required.

Scholarship Opportunities

While acceptance into the Scholars Program does not automatically include financial aid, many students in the program are awarded merit-based financial aid. Interested students should apply early each calendar year through the Office of Financial Aid. University Scholars advisors can also provide information about possible financial aid opportunities.

Lower-Division Program

The lower-division portion of the Scholars Program must be completed before earning 60 credit hours at Cleveland State University. Students are expected to take two Honors-designated general education courses. Incoming lower-division students must enroll in a special Scholars section of ASC 101 – Introduction to University Life. Scholars may also choose to participate in specially designed learning communities for members of the program. University Scholars students are expected to maintain a cumulative grade point average of at least 3.25.

Upper Division Program

The upper-division portion of the Scholars Program is completed after the student has completed 60 credit hours of university coursework. The upper-division requirements vary by major; students can contact the Scholars adviser or their faculty adviser for details on the specific upper division requirements. Students are expected to maintain a cumulative grade point average of at least 3.25.

Consult our website for the most current information: www.csuohio.edu/scholars

Contact Information:
Lauren A. Davis, M.Ed.
Cleveland State University Honors Program, MC 412
2121 Euclid Ave., Cleveland, OH 44115-9897
Telephone: 216-687-5559

International Student Services (CISP)

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- Description

Description

The Center for International Services and Programs (CISP) provides specifically designed services to meet the needs of more than 800 international students from 72 different nations who are enrolled in academic programs at the undergraduate, graduate or doctoral level.

CISP provides a variety of services to international students and international visitors to foster a positive learning experience for both their academic and personal growth.

Arrival. CISP provides an airport pickup service for first-semester international students. Students notify CISP with their arrival information submitted via the Arrival Form, that students receive with their I-20 or DS2019. The Arrival Form is also available for download from the CISP website and can be e-mailed to CISP at intadvisor@csuohio.edu, or faxed to CISP at 216-687-3965. Another option is to fill out and submit the Arrival Form online at the CISP website A CISP representative will meet the student at the airport or other transit station.

Orientation. CISP conducts a mandatory orientation at the beginning of each academic term. The orientation takes place approximately 10 days before the term begins. These programs address important issues which new international students face, such as adjustment, language difficulties, safety, housing, immigration regulations, and university academic policies and procedures.

Individual Advising. Advising services include personal, academic, and cross-cultural advising. The advising is available by appointment and on a walk-in basis for short-term assistance.

Immigration Advising. CISP provides immigration advising for students on F-l and J-l visas. Questions concerning student visas, duration of status, practical training, and on-campus and off-campus work permission are among the topics covered. The center also conducts weekly work permission seminars.

Academic Advising. For students who face academic difficulty, academic advising is available. This advising is meant to assist students with difficulties not addressed by academic departments on campus. Students who face academic dismissal are advised on how to strategically complete their remaining coursework and on the immigration implications they may face.

Social Programming. International students at Cleveland State have many opportunities for social interaction with American students, fellow nationals, and individuals from many countries.

International Day. Each fall, the international students on campus unite to celebrate International Day, a part of International Education Week, which is celebrated around the world. Numerous nationality groups participate in bringing a day of cultural exchanges, through ethnic food, music and authentic dance performances. The event is organized by CISP.

International Student Organizations. There are several international student groups on the campus. They represent countries in Asia, Africa, Europe, Latin America and the Middle East. New groups are formed every year. Each nationality group on campus is encouraged to establish its own student organization.

Learning Communities

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- Description
- Go to Learning Communities Website

Description

Cleveland State University now offers Learning Communities to first-year students.

Learning Communities provide a powerful support system that helps students make a smooth transition from high school to higher education and grow intellectually and socially.

In many ways, Learning Communities create a small college atmosphere within a large campus. They feature interesting courses clustered thematically, coordinated assignments and a variety of complementary learning activities. Faculty integrates assignments and co-curricular events so that learning extends beyond the classroom. This includes trips to museums, historical landmarks and sites of interest in the Cleveland area.

Students participate in small classes as a cohort. This helps students develop positive relationships with faculty and peers as they examine the theme from different disciplinary perspectives. Students from all majors can enroll if the theme is of interest and many, courses also satisfy General Education Requirements.

Because information literacy is important to academic success, an embedded librarian is assigned to every Learning Community to assist with research and other assignments. Peer-mentor coaches are also available to help students organize study groups and skills that promote success.

Ask your academic adviser about the Learning Communities being offered in the upcoming term. Visit the Learning Communities website at http://www.csuohio.edu/academic/learningcommunities.html. Or, contact the Learning Communities Activities Director at 216-687-5561.

LINK Program

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- Description
- Go to Career Services' LINK Program page

Description

The LINK Program is a recruitment and retention effort by the Career Services Center to increase minority student participation in Cleveland State University's Cooperative Education Program. Students are recruited primarily from Greater Cleveland-area high schools and are offered a wide range of support services while pursuing their degrees at Cleveland State University.

To be eligible for the LINK Program, students must be admitted to the university and submit a written essay, written recommendations, and an oral presentation.

Mentoring and financial support are the dual purposes of the LINK Program. Each student has a peer advisor and LINK Program staff mentor as well as a corporate mentor who provides the student with direct exposure to the professional world of work. Financial support in the freshman year is a combination of financial aid and LINK scholarship support. The student's co-op wages also provide financial support. Upon completion of the freshman year, LINK students gain career-related work experience through the Cooperative Education Program.

Interested students should call 216-687-2233 or stop by the Career Services Center located in Rhodes Tower West, Room 280.

National Student Exchange

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- Description
- Go to National Student Exchange website

Description

The National Student Exchange (NSE) offers Cleveland State University students the opportunity to take course work at one of approximately 190 participating colleges and universities throughout the United States as well as Puerto Rico, the U.S. Virgin Islands, Guam and Canada. Students may attend a host institution for up to one calendar year while continuing their progress toward a Cleveland State University degree. Students have the option of paying CSU tuition or the in-state tuition of their exchange school.

The program allows students an opportunity to explore and learn from different regional and cultural perspectives and to broaden their backgrounds, often through courses not available at their home campus. All pre-approved courses will transfer back to Cleveland State.

Eligible students must maintain full-time enrollment before and during exchange, be of at least sophomore status, and have a 2.5 minimum GPA.

The application deadline is February 1 for the following academic year.

Interested students should contact Julie Good at 216-687-3910 or e-mail her at j.a.good88@csuohio.edu. More information is also available at www.nse.org.

STARS Program

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- Description
- Go to STARS Program website

Description

STARS (Student Achievement in Research and Scholarship) is an undergraduate research program that is faculty-driven and provides incentive-based mentoring for high-ability students who are preparing for graduate school and ultimately for academic careers. The STARS Program staff and faculty mentors work with students to guide them in conducting a research project that will expand their scholarly capabilities and knowledge of the academic rigor of graduate study.

The mission of STARS is to increase the pool of individuals from low income, first generation or traditionally under-represented groups in their preparation for graduate school. The program staff provides students with information about graduate programs and assists them in identifying and participating in graduate school visitation programs. Students interested in participating in the STARS Program are encouraged to contact Serreta Archer at 216-687-9236, by e-mail at s.archer@csuohio.edu, or visit the website at http://www.csuohio.edu/offices/odama/stars. STARS is located in Rhodes Tower 1254.

TRIO/Student Support Services

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- Go to Student Support Services website

Description

The TRIO/Student Support Services (SSS) Program is grant funded through the U.S. Department of Education and has been part of the Cleveland State University Campus for over 40 years. TRIO/SSS works in cooperation with all offices at Cleveland State University and continues to be committed to helping students progress towards graduation and beyond. TRIO/SSS provides opportunities for academic development, assists students with basic college requirements, and serves to support and motivate students toward the successful completion of their postsecondary education. The goal of TRIO/SSS is to increase the college retention and graduation rates of its participants and help students make the transition from one level of higher education to the next.

TRIO/SSS participants have benefited from services such as:

- Academic Advising
- Academic Skills Sessions
- Career Planning Seminars
- Computer Application Workshops
- Cultural and Social Enrichment Activities
- Financial Aid Guidance
- Financial Literacy Workshops
- Graduate and Professional School Preparation
- Peer Mentoring
- Study Abroad Scholarships
- Summer Enrichment Program
- Supplemental Grant Aid (if eligible)
- Tutorial Services

Eligibility Requirements

- First generation college student: Neither parent /guardian graduated from a 4-year institution and/or
- Low-income based on federal income guidelines
- Enrollment or accepted for enrollment at Cleveland State University
- U.S. citizen and/or legal permanent resident
- Demonstrated academic need as determined by TRIO/SSS

If you are interested and want to determine your eligibility, please visit the TRIO/Student Support Services Program website at http://www.csuohio.edu/academic/advising/trio.html or call 216-687-2402.

*All services are provided at **no cost** to participants of the TRIO/Student Support Services Program*.

Study Abroad- Center for International Services and Programs

- Back to Special Programs List
- Description
- Go to CISP's Study Abroad website

Description

Studying abroad provides students the opportunity to immerse themselves in a foreign learning environment in order to further develop their foreign language skills and/or their understanding of the world and its people. The study abroad staff assists students in identifying study abroad programs that fit their academic and personal goals.

One-to-One Exchanges; A Cleveland State University student can study abroad for a semester or year in Chile (Universidad de Concepción), China (Dalian School of Foreign Languages), England (University of Sunderland), France (ESC Clermont Ferrand or University of Rouen), Germany (Baden-Wuerttemberg Cooperative State University Heidenheim or University of Erlangen-Nuremberg), South Korea (Chung Ang University), or Sweden (Umeå University) as a part of a direct exchange program. CSU tuition is paid for the term abroad.

Faculty-Led Short-Term Programs: Every year several academic departments offer short-term study abroad programs facilitated by CISP. These programs are led by one faculty director from the department and typically include ten to twenty students. Grades earned on these programs are recorded on the transcript and included in the calculation of the grade point average. Previous programs have traveled to India (Social Work); France, Spain, Mexico (Modern Languages); Netherlands (History); Chile, England,Germany, and Italy (Business).

Independent Programs: CISP will consider applications for direct enrollment in any overseas university as well as abroad program established by other American colleges and universities. Students can choose to study abroad for a semester, summer, or a year. In most cases, financial aid can be applied for approved study abroad programs and course credits can be transferred in. Grades from these programs are not factored into a students' CSU academic record.

Work, Intern, Volunteer Abroad: CISP offers internships in Germany for business and engineering majors. The study abroad staff will assist students in identifying and applying to these and other programs.

Scholarships: Students can apply through CISP for studyabroad scholarships. Awards range from $200 to $1,000. The Office of Diversity and Multicultural Affairs also offers a study abroad scholarship for up to $500 for summer study and up to $1,000 for semester or year-long programs. In addition, CISP can assist students with applications for national study abroad scholarship competitions like the Benjamin A. Gilman Scholarship or a Boren Award.

For further information and to apply to the programs, contact the Study Abroad Manager at the Center for International Services and Programs (CISP) in Main Classroom 106 studyabroad@csuohio.edu Call 216-687-3910, Fax 216-687-3965, or visit http://www.csuohio.edu/offices/international/study_abroad/

Mareyjoyce Green Women's Center

• Description
• Go to Mareyjoyce Green Women's Center website (www.csuohio.edu/studentlife/womenscenter)

Description

Cleveland State's Mareyjoyce Green Women's Center is a part of the Department of Student Life and provides programs, services and referrals to CSU students focusing on three areas: women students, returning adult students and students who are parents. The Center, in MC 142, provides a safe, supportive atmosphere for students and advances the University's mission by providing students with exceptional services and individual attention to help overcome barriers to success.

For information on the Return to Learn and other Women's Center programs and services please call or visit www.csuohio.edu/studentlife/womenscenter.

Contact information:
CSU Mareyjoyce Green Women's Center
2121 Euclid Avenue, MC 142
Cleveland, OH 44115-2214
216-687-4674

Please note: There have been several changes in the Women's Center during the past several months. First, the Mareyjoyce Green Women's Center is now a part of Student Life and not a part of Undergraduate Studies. Secondly, the Women's Comprehensive Program no longer exists. The Women's Center and Women's Studies are completely separate. Finally, we have a new web address: www.csuohio.edu/studentlife/womenscenter

College Information

- Monte Ahuja College of Business
- College of Education and Human Services
- Fenn College of Engineering
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Maxine Goodman Levin College of Urban Affairs
- School of Nursing

Monte Ahuja College of Business

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    - Business Administration (B.B.A.)
    - Bachelor of Science in Computer and Information Science (B.S.C.I.S.)
- Go to College of Business Administration website

Introduction

Website: www.csuohio.edu/business/

The Monte Ahuja College of Business prepares its graduates for professional careers in business, government, and nonprofit organizations. The College offers two baccalaureate degrees: the BBA and the BSCIS.

The BBA degree at Monte Ahuja College requires students to explore the world of business in society, to develop managerial, technical, ethical, and critical thinking skills, and to understand the roles and responsibilities of individuals as citizens, managers, and professionals. This is accomplished through a carefully designed curriculum of "lower division" general education courses in the humanities, natural science, mathematics, and the social sciences. Students in the BSCIS program begin their technical education with a similar combination of computer and information science and general education courses.

The upper-division program of study in business permits students to acquire a broad foundation of knowledge and skills in the functional areas of business, including accounting, finance, international business, marketing, organizational behavior, human resources management, information systems, and supply chain management . Within a major, the student acquires specialized knowledge and skills. Emphasis is placed upon individual initiative, teamwork, integrative and critical thinking, ethical analysis, and strategic decision-making skills. Students are provided fundamental tools as well as knowledge about advances in management practice and thought to assist them in meeting the management and leadership responsibilities in their business, civic, and personal lives. The upper division program of study in computer and information science consists of advanced elective courses that permit students to major in CIS or computer science (CSC).

Degrees

The faculty of the Monte Ahuja College of Business confers the following undergraduate degrees:

- Bachelor of Business Administration
- Bachelor of Science in Computer and Information Science

The college also offers programs, in conjunction with the College of Graduate Studies, leading to the following graduate degrees:

- Master of Accountancy
- Master of Business Administration (MBA)

- MBA in Health Care Administration
- Juris Doctor/Master of Business Administration (JD/MBA)
- Master of Science in Nursing/Master of Business Administration (MSN/MBA)
- Master of Computer and Information Science
- Master of Labor Relations and Human Resources
- Doctor of Business Administration

For information on these programs, refer to the **Cleveland State University Graduate Catalog**, available through the College of Graduate Studies. **Major Programs in the B.B.A. Degree**

- Accounting (ACT)
- Business Administration (BUS)
- Business Economics (BUSECN)
- Finance (FIN)
- Information Systems (IST)
- International Business (IBN)
- Management and Labor Relations (MLR)
- Marketing (MKT)
- Operations and Supply Chain Management (OSM)

Tracks in the B.S.C.I.S. Degree:

- Computer and Information Science (CIS)
- Computer Science (CSC)

Minor Programs

Students outside and within the College of Business Administration may earn a business minor. For details, please contact the departmental offices or the Monte Ahuja College of Business Advising Center (telephone: 216-687-3729).

Certificate Programs

The certificate programs sponsored or co-sponsored by the College of Business Administration are described below.

- Certificate in Global Business
- Certificate in Arts Management
- Certificate in Multimedia Advertising
- Certificate in Business Biotechnology

General Requirements

- Introduction
- Declaring a Major
- Add/Withdrawal Policy
- Work Experience

Introduction

1. A minimum of 128 credit hours of academic work is required for all students. One hour of BUS 101, Introduction to College Life, is required of all freshmen.
2. The accumulation of quality points must total a minimum of 2.00 times the number of credit hours taken both for business courses and overall.
3. Distribution of course work will vary within the requirements for each of the college degrees.

The general course requirements of Cleveland State University and the College of Business Administration are listed in this section for the lower- and upper-division years. In addition, students complete the requirements of the major field and electives of their choice during the final two years. Students are responsible for satisfying course prerequisites and taking courses in the correct sequence.

BBA students must complete all of the business core courses before enrolling in MLR 465 Management Strategy and Policy, the BBA program's capstone course.

The College of Business Administration may remove students from classes and/or revoke credit for courses taken out of sequence or without the required prerequisites. Students may be required to take additional courses to substitute for courses taken out of sequence. Students with questions about prerequisites or sequencing should see an academic adviser.

NOTE: Students outside of the Monte Ahuja College of Business may be allowed to enroll in business courses. However, accreditation rules require that no more than 25 percent (32 semester hours) of the coursework that is counted toward a non-business bachelor's degree can be business courses unless the student also completes all of the Common Body of Knowledge (CBK) courses listed for the College of Business. The 18 CBK courses are: BUS 151, ACT 221, ACT 222, IST 203, IST 305, ECN 201, ECN 202, ECN 302, FIN 351, GAD 250, OSM 201, OSM 202, OSM 311, MKT 301, MKT 351, MLR 321, BLW 411, and MLR 465.

Declaring a Major

A major may be declared upon admission to a degree program at the university or upon completion of 60 credits. A declaration of major form is available at the College of Business Advising Office (Ahuja Hall, BU 219).

Add/Withdrawal Policy

After the drop deadline, a business student must file a college petition for late withdrawal. Petition forms may be obtained at the college advising office (Ahuja Hall, BU 219). Late registrations or adds are not permitted after the first week of class without authorization from both the instructor of the course(s) and the college advising office.

Gaining Work Experience

The Monte Ahuja College of Business recognizes that, in today's competitive job market, students who graduate with work experience closely related to their career preparation will have an advantage over other job-seekers. Consequently, the college encourages students to participate in internships and cooperative education programs that provide this experience. College credit can be earned with selected internship programs. For information about internship opportunities, visit the Business Career Center in BU 213.

Monte Ahuja College of Business

Major Programs Leading to a Bachelor's Degree

- Bachelor of Business Administration Program
  - Accounting
  - Business Administration
  - Business Economics
  - Finance
  - Information Systems
  - International Business
  - Management and Labor Relations
  - Marketing
  - Operations and Supply Chain Management
- Bachelor of Science in Computer and Information Science Program
  - Computer and Information Science Track (CIS)
  - Computer Science Track (CSC)

Bachelor of Business Administration (B.B.A.)

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    - Accounting
    - Business Administration
    - Business Economics
    - Finance
    - Information Systems
    - International Business
    - Management and Labor Relations
    - Marketing
    - Operations and Supply Chain Management
- Certificate Programs

Distribution Requirements

A total of 128 semester hours are required for the B.B.A. degree. The B.B.A. student must choose a major field at the beginning of the junior year following completion of the lower-level business core and General Education Requirements. The major, however, may be changed with the permission of the program adviser. Consultation with department chairs and members of the faculty is strongly encouraged for help in choosing a major field of study.

Lower Division

Students must complete freshman and sophomore requirements in order to meet upper-division prerequisites. Course schedules for each term should follow the sequence listed in the Lower-Division Recommended Program. Requirement check sheets are available in the College's Advising Center (Ahuja Hall, BU 219).

Upper Division

After completing lower-division requirements, all students seeking a Bachelor of Business Administration degree in the College of Business Administration are required to complete the core courses listed below. They are scheduled in the individual major fields at recommended points. Requirement check sheets are available in the college office.

Core Courses

- ECN 302 Intermediate Microeconomics
- MLR 321 Organizational Behavior
- OSM 311 Introduction to Operations Management
- FIN 351 Introduction to Financial Management

- BLW 411 Business Law and Ethics
- MKT 301 Fundamentals of Marketing
- IST 305 Information Technology
- MKT 351 Business, Society, and Government
- MLR 465 Management Strategy & Policy

Major Field

After completing the lower-division requirements, the student will continue with upper-division core courses (listed above) and begin studies in the chosen major field. Students should complete courses in the approximate order indicated in the lower- and upper-division schedules. The major fields include accounting, business administration, business economics, finance, information systems, international business, marketing, management and labor relations, and operations and supply chain management. Each specifies minimum credit requirements. Students should refer to the suggested major program schedules for specific details.

Policy on Second Majors

Students seeking a second major and who have completed the B.B.A. degree within the past five years will be required to complete only the courses in the second major field. Those who completed the B.B.A. degree more than five years ago will need to complete all College of Business Administration requirements now in effect, including both the courses in the second major field as well as the courses in business and economics required of all business majors.

Lower-Division Recommended Program

First Semester	**Credits**
ENG 101 English I	3
MTH 148 Math for Business Majors I	4
IST 203 Software Tools for Personal Productivity	3
BUS 101 Intro College Life	1
BUS 151 World of Business	3
Total	14
Second Semester	**Credits**
ENG 102 English II or approved course	3
MTH 149 Math for Business Majors II	4
Natural Science **	3
ECN 201 Prin of Macro	3
Social Diversity **	4
Total	17

Third Semester	**Credits**
ECN 202 Prin of Micro ***	3
OSM 201 Business Statistics I	3
GAD 250 Bus Com (W)	3
ACT 221 Intro Act I	3
Natural Science with Lab **	4
Total	16
Fourth Semester	**Credits**
Social Diversity **	3
OSM 202 Business Statistics II	3
ACT 222 Intro Act II	3
Social Science **	4
Arts and Humanities **	4
Total	17

*The Analytical Geometry & Calculus sequence (MTH 181-182) may be substituted for MTH 148 & MTH 149

**Before choosing electives, students should consult an adviser or see the Degree Application Requirements and General Education Requirements sections of this catalog. Please note that additional General Education Requirements may be included in the upper division portion of the BBA curriculum.

***Once ECN 201 or 202 or their equivalents have been successfully completed, no additional credit for principles-levels economics courses will be counted toward graduation in the College of Business Administration.

(W) Counts as a writing course for General Education Requirements. Three writing courses are required.

Accounting

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- Accounting Minor
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- Go to Accounting website

Accounting (B.B.A.)
At-a-Glance

Accounting is an extremely popular major, and offers excellent job opportunities. It offers students career opportunities in business, government, and public accounting. A primary function of accounting is to accumulate and communicate information essential to an understanding of the activities of an enterprise. The accounting program, in addition to its major concern of preparing students for careers in accounting, offers a background in business law and ethics, information systems, and tax to qualify the student for leadership in business.

Admission to major: 2.50 grade-point average in ACT 221 and ACT 222 and completion of all College of Business Administration lower-division requirements.

Advising: Majors are assigned an accounting faculty adviser by the Department of Accounting, 216-687-4720.

Student organizations: The Accounting Association and Beta Alpha Psi (accounting honorary)

Internship/Co-op Program

The Cleveland State Department of Accounting has a dedicated Internship/Co-op program, designed to place our accounting students into accounting internships and co-op jobs. Our Internship/Co-op Director identifies and recruits employers to the program, and recruits and screens qualified students.

Accounting majors should contact the Director, Professor Daniel Kaminsky, at (216) 687-2081 or at d.a.kaminsky@csuohio.edu to apply for the program. Please include your resume when emailing the Director.

Major-Field Requirements

All accounting majors must complete a minimum of 38 credits in accounting and business law beyond principles (44 credits including accounting principles). **A grade of "C" or higher is required in all accounting courses beyond ACT 221 and 222, in order for the course to count as successfully completed.**

Major-field requirements are:

- ACT 221 Introductory Accounting I (3)
- ACT 222 Introductory Accounting II (3)
- ACT 321 Cost Accounting I (3)

- ACT 331 Intermediate Accounting I (4)
- ACT 332 Intermediate Accounting II (4)
- ACT 361 Tax I (4)
- ACT 388 Accounting Systems (3)
- ACT 441 Advanced Accounting (4)
- ACT 451 Auditing (4)
- ACT - Accounting Elective (3)
- ACT – Accounting Elective (3)
- ACT- Accounting Elective (3)
- BLW 411 Business Law and Ethics (3)

ELECTIVES

- ACT 422 Cost Accounting II
- ACT 453 Information Systems Auditing
- ACT 455 Internal Auditing
- ACT 456 Advanced Auditing Topics
- ACT 460 International Accounting
- ACT 462 Tax II
- ACT 484 Governmental and Institutional Accounting
- ACT 490 Accounting Internship
- ACT 491 – Independent Study in Accounting

Students who are planning to sit for the CPA exam should especially consider taking the following electives:

- ACT 460 International Accounting
- ACT 462 Tax II
- ACT 484 Governmental and Institutional Accounting

Recommended Program:

Fifth Semester	**Credits**
ACT 321 Cost Accounting I	3
ACT 331 Intermediate Accounting I	4
ECN 302 Intermediate Microeconomics *	3
MLR 321 Organizational Behavior *	3
MKT 301 Fundamentals of Marketing *	3
Total	16
Sixth Semester	**Credits**
ACT 332 Intermediate Accounting II	4
ACT 361 Tax I	4
OSM 311 Introduction to Operations Management *	3
BLW 411 Business Law and Ethics * (w)	3
Humanities and Arts	3

Total	17
Seventh Semester	**Credits**
ACT 441 Advanced Accounting	4
ACT 388 Accounting Systems	3
FIN 351 Introduction to Financial Management *	4
Accounting Elective	3
Accounting Elective	3
Total	17
Eighth Semester	**Credits**
ACT 451 Auditing	4
Accounting Elective	3
MLR 465 Management Strategy and Policy * (w)	3
Accounting or Business Elective	3
Accounting Elective	3
Total	16

* All B.B.A. core courses must be completed prior to taking MLR 465, the capstone course in the B.B.A. program.

(w) Counts as a writing across the curriculum (WAC) course for university graduation requirements. Thus, one elective must also be a writing course. A "C" or higher grade is required to successfully complete a WAC course.

Accounting Minor

An accounting minor is available to students enrolled in the College of Business Administration and other colleges of the university. For information, contact the department offices at 216-687-4720. The accounting minor requirements are as follows:

- ACT 221 Introductory Accounting I (3)
- ACT 222 Introductory Accounting II (3)

15 additional credits in accounting

Business Administration Major

On this page:

- Back to Business Degree Listing
- At-a-Glance
- Major-Field Requirements
  Recommended Program
- Go to College of Business Administration website

Business Administration (B.B.A.)
At-a-Glance

Cleveland State University offers a flexible educational opportunity for the non-traditional student to complete the Bachelor of Business Administration degree with a general business administration major. The business administration major prepares students with foundation courses in business and a broad cross-section of advanced business courses in various functional areas. Courses for this program are offered during the day and evening at both the main campus and various off-campus sites. The program is composed of lower-division and upper-division core courses as required by the B.B.A. degree and a choice of business administration major courses that can be selected from various business disciplines.

This program is for you if:

- You have completed two years at a community college and fulfilled Cleveland State University's Transfer Module requirements OR
- You are a part-time student who would like to accelerate degree completion by picking up evening and weekend classes OR
- You want to earn a certificate in a particular field of interest OR
- You want to take courses for self-improvement or career advancement

Program Highlights

The Bachelor of Business Administration degree with a major in business administration:

- Enables you to develop breadth of knowledge in the field of business administration
- Increases your transfer opportunities if you have previous college credits
- Permits flexibility to take advanced business courses that fit your schedule and professional needs
- Prepares you with foundation courses for the MBA degree
- Gives you the flexibility of taking additional courses and earning other minors in the college

Major-Field Requirements

Business Administration Major Courses

The major in business administration consists of 28 credit hours of 300/400 level business electives beyond the B.B.A. degree's core requirements. Electives must be selected from *a minimum of four* of the following seven business disciplines: accounting (ACT), finance (FIN), information systems (IST), international business (INB), management and labor relations (MLR), marketing (MKT), and operations and supply chain management (OSM). Please consult this CSU Undergraduate Catalog for course descriptions and check CampusNet or a College of Business undergraduate adviser in Ahuja Hall, BU 219, for course availability.

Recommended Program:

The following sequence of courses has been developed by the College of Business Administration faculty. If you enroll for courses each semester as indicated, you will have the proper prerequisites and background to obtain the maximum benefit from these requirements. Any exceptions to this program should be discussed with your adviser. Students taking courses without proper prerequisites may lose credit and may be required to take additional courses.

For courses offered, please refer to the class schedule on CampusNet. Click each course below for its description.

Recommended Program for Undergraduate Business Administration Major	
Fifth Semester	**Credits**
MKT 301 Introduction to Marketing *	3
ECN 302 Intermediate Microeconomics *	3
FIN 351 Introduction to Financial Management *	4
MLR 321 Organizational Behavior *	3
Arts and Humanities	3
Total	16
Sixth Semester	**Credits**
MKT 351 Business, Society, & Government * (W)	3
OSM 311 Introduction to Operations Management *	3
BLW 411 Business Law and Ethics * (W)	3
IST 305 Information Technology *	3
Major Field Elective	4
Total	16
Seventh Semester	**Credits**
Major Field Elective	3
Major Field Elective	4
Major Field Elective	3
Major Field Elective	3

Open Elective	3
Total	16
Eighth Semester	**Credits**
MLR 465 Management Strategy & Policy * (W)	3
Major Field Elective	4
Major Field Elective	3
Major Field Elective	3
Open Elective	3
Total	16

* BBA core courses must be completed prior to taking MLR 465, the capstone course.

(W) Denotes writing-across-the-curriculum course. Three writing courses are required.

Business Minor

If you are looking to supplement the expertise you are gaining in your major with some business knowledge and experience, then consider our new Minor in Business.

- This program can serve as a valuable complement to your major field studies and give you a competitive edge in the career you have chosen.
- If you have ever considered graduate study in business, this minor will provide you with many of the prerequisites for the MBA program.

How do I earn a Minor in Business?

- For details concerning the requirements in this program, see below or download a curriculum checksheet.
- To discuss your options, please contact our Undergraduate Advising Center at (216) 687-3729, or e-mail us at cba_advising@csuohio.edu.

Requirements for the Minor in Business

Option A: Cross-Functional Business Track (19 credit hours)

Course Title	**Credit Hours**
ACT 221 Introductory Accounting I	3
FIN 351 Introduction to Financial Management *	4

IST 305 Info. Technology for Competitive Advantage **	3
MKT 301 Introduction to Marketing #	3
MLR 321 Organizational Behavior #	3
OSM 311 Introduction to Operations Management ##	3

* The prerequisites for this course are ECN 201 and 202, ACT 221 and 222, and junior standing.
** The prerequisites for this course are IST 203 and junior standing.
# The prerequisite for this course is junior standing.
The prerequisites for this course are OSM 201 (or other approved statistics course) and junior standing.

Option B: Flexible Track (minimum of 18 credit hours)

Select a minimum of any four courses from the list in Option A (above) and any two business administration courses at the 200-400 level. For a complete list of business courses, please check the Undergraduate Catalog on-line at: www.csuohio.edu/undergradcatalog/courses/courses.htm.
Independent study courses are not eligible for use toward the business minor. Approval of the program of study by a business advisor is required.

For More Information

For more information, please visit or contact the Monte Ahuja College Advising Center (BU 219) at (216) 687-3729, or e-mail us at cba_advising@csuohio.edu.
Please note that the Business Minor is *not* an option for students earning a BBA major.

Business Economics

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- At-a-Glance
- Major-Field Requirements
  Recommended Program
- Go to Business Administration College website

Business Economics (B.B.A.)
At-a-Glance

The major in Business Economics is designed for students interested in the application of advanced economic analysis, principles, and thinking to the management and operation of business, government, and not-for-profit organizations. The curriculum affords an opportunity to couple knowledge of the structure and operation of an economy with the decision theory and problem-solving approaches used in modern business administration.

Admission to major: Completion of all Monte Ahuja College of Business lower-division requirements.

Advising: Business economics majors are advised by the Monte Ahuja College of Business Advising Office, Monte Ahuja Hall, BU 219.

Major-Field Requirements

In addition to the B.B.A. degree program's required core courses, students must complete:

- ECN 301 (Intermediate Macroeconomics), and a minimum of four additional courses from the following, for a minimum of 15 credit hours.
- ECN 322 Statistics and Econometrics
- ECN 330 Managerial Economics
- ECN 333 Economics of Health Care
- ECN 355 Money and Banking
- ECN 360 Public Sector Economics
- ECN 433 Industrial Organization
- ECN 441 Business Fluctuation and Forecasting
- ECN 450 Economics of Law
- ECN 470 Urban Economics
- ECN 474 Envir. & Natural Resources Economics
- ECN 475 Labor Economics
- ECN 482 International Economics
- ECN 485 Economics of Development and Growth

Recommended Program:

Fifth Semester	**Credits**
ECN 301 Intermediate Macroeconomics	3
MKT 351 Business, Society, and Government (w)	3

MLR 321 Organizational Behavior	3
ECN Elective	4
Elective	3
Total	16
Sixth Semester	**Credits**
OSM 311 Introduction to Operations Management	3
ECN 302 Intermediate Micro Economics	3
FIN 351 Introduction to Financial Management	4
MKT 301 Fundamentals of Marketing	3
Humanities & Arts	3
Total	16
Seventh Semester	**Credits**
IST 305 Information Technology	3
BLW 411 Business Law and Ethics (w)	3
ECN Elective	4
ECN Elective	4
Humanities & Arts	3
Total	17
Eighth Semester	**Credits**
MLR 465 Management Strategy and Policy (w)	3
ECN Elective	4
ECN Elective	4
General Education Course	4
Total	15

(w) Counts as a writing course for university graduation requirements. Three writing courses are required.

Note: All B.B.A. core courses listed above must be completed prior to taking MLR 465, the capstone course.

Finance

On this page:

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- At-a-Glance
- Major-Field Requirements
  Recommended Program
- Finance Minor
- FIN Courses
- Go to Finance Department website

Finance (B.B.A.)
At-a-Glance

The Finance major within the B.B.A. degree program prepares students with a broad foundation of business knowledge and management skills, and proficiency in finance for professional careers in the financial departments of industrial, commercial, and financial institutions, investment firms, real estate firms, insurance companies, and government and public agencies.

The Finance major curriculum introduces business students to theories, concepts, practices, and advances in financial analysis, ethical decision making, and financial management. Topics covered include risk estimation and solutions; efficient management of funds, selection of alternative sources of financing, the financial adaptation of the firm and the individual investor to a dynamic economic and political environment, the fundamental and technical valuation of various types of assets, and the determination of appropriate investment policies for the firm and the individual within the U.S. as well as the international environment.

Admission to Major:

- Completion of all College of Business Administration lower-division requirements.
- Submit an official Declaration of Major in the Monte Ahuja College of Business Advising Center, Ahuja Hall, BU 219.

Faculty: The finance faculty is recognized nationally and internationally for its expertise and scholarship in investments, banking, risk analysis, international finance, and real estate investment.

Specialization: Students may choose from four areas of specialization:

- Investment Management
- Management of Financial Institutions
- Real Estate
- Financial Management

Advising: Declared Finance majors are assigned a faculty adviser; call 216-687-4716 for information.

Student organizations: Student Chapter, Financial Management Association (FMA); telephone: 216-687-3939.

Internships: Finance majors are encouraged to gain practical experience in finance by doing professional internships with area firms. Internships may be done for credit. For more information, contact the Finance Department (216-687-4716) or the College of Business Career Services Office in BU 212 (216-687-3836).

Financial Assistance: Scholarships, grants, loans, work-study, and part-time employment are available to help students pay for college costs. For information, please contact Campus411 at 216-687-5411 or visit their website at http://www.csuohio.edu/enrollmentservices/campus411/.

Major-Field Requirements

For students who are newly-admitted to CSU for Fall 2009, the requirements for a major in Finance are as follows: complete 28 credits of finance courses beyond FIN 351, an advanced course in accounting, and one 3- or 4-credit course from a selected list of courses in finance, economics, or accounting. Please consult with a business adviser for specific recommended courses. Students admitted to CSU prior to Fall 2009 should consult the catalog or see a business adviser for catalog rights. The Finance major must earn at least a grade of C or better in FIN 351 Introduction to Financial Management and in the two required core courses in the major (FIN 353 Introduction to Investments and FIN 360 Financial Markets and Institutions). The Finance major must also earn a C or better in a minimum of 20 additional credit hours of 400-level finance elective courses.

Recommended Program:

Fifth Semester	**Credits**
IST 305 Information Technology *	3
FIN 351 Introduction to Financial Management *	4
ECN 302 Intermediate Microeconomics *	3
MKT 301 Fundamentals of Marketing *	3
MLR 321 Organizational Behavior *	3
Total	16
Sixth Semester	**Credits**
FIN 353 Introduction to Investments	4
FIN 360 Financial Markets and Institutions	4
OSM 311 Introduction to Operations Management *	3
MKT 351 Business, Society, and Government * (w)	3
Arts and Humanities	3
Total	17
Seventh Semester	**Credits**
BLW 411 Business Law and Ethics * (w)	3
Finance Elective	4
Finance Elective	4
Finance Elective	4
Total	15

Eighth Semester	**Credits**
MLR 465 Management Strategy and Policy * (w)	3
Finance Elective	4
Finance Elective	4
Accounting Elective	3
Finance/Economics/Accounting Elective	2-4
Total	16-18

*Core courses in the B.B.A. curriculum must be completed prior to registering for MLR 465, the capstone course.

Courses designated with a (w) are writing courses required for university graduation. Three writing courses are required.

Finance Major Core Courses and Electives

FIN 351 Introduction to Financial Management (4-0-4). **BBA core.**
FIN 353 Introduction to Investments (4-0-4). Prerequisite: FIN 351. **Major core.**
FIN 360 Financial Markets and Institutions (4-0-4). Prerequisite: FIN 351. **Major core.**
FIN 454 Advanced Investments (4-0-4). Prerequisite: FIN 353.
FIN 461 Bank Management (4-0-4). Prerequisite: FIN 351.
FIN 465 International Finance and Investment (4-0-4) Prerequisite: FIN 351.
FIN 470 Introduction to Risk and Insurance (4-0-4). Prerequisite: FIN 351.
FIN 471 Life and Health Insurance (4-0-4). Prerequisite: FIN 470.
FIN 473 CFA Level I Review (2 to 4 credits). Prerequisite: FIN 353 and instructor permission.
FIN 477 Real Estate Finance (4-0-4). Prerequisite: FIN 351.
FIN 479 Real Estate Investment (4-0-4). Prerequisite: FIN 351.
FIN 480 Case Problems in Finance (4-0-4). Prerequisite: FIN 351.
FIN 484 Capital Budgeting Decisions (4-0-4). Prerequisite: FIN 351.
FIN 490 Professional Internship (1 to 4 credits). Prerequisites: FIN 351, junior standing, permission of chairperson.
FIN 493 Special Topics in Finance (4-0-4). Prerequisite: FIN 351.

Special Topics: Practicum in Investment and Portfolio Management (1-4 cr). Prerequisite: FIN 353 or permission of the instructor.

FIN 496 Independent Study (1 to 4 credits). Prerequisites: FIN 351, senior standing, approval of sponsoring faculty and department chair.

Finance Minor

A minor in Finance can provide business or non-business students with specialized knowledge about finance and a valuable credential in applying for or advancing in certain careers.

The program of courses for the Finance minor is as follows:

Required Core (11 credits):

ACT 222 Introductory Accounting II *
FIN 351 Introduction to Financial Management *
FIN 353 Introduction to Investments

Electives (8 credits)

FIN 360 Financial Markets and Institutions
FIN 454 Advanced Investments
FIN 461 Bank Management.
FIN 465 International Finance and Investment
FIN 470 Introduction to Risk and Insurance
FIN 471 Life and Health Insurance
FIN 473 CFA Level I Review (2 to 4 credits). Prerequisite: FIN 353 and instructor permission.
FIN 477 Real Estate Finance
FIN 479 Real Estate Investment
FIN 480 Case Problems in Finance
FIN 484 Capital Budgeting Decisions

* ACT 222 and FIN 351 have prerequisites; please check the online catalog: www.csuohio.edu/undergradcatalog/

**Note: the newer course numbers were effective as of Spring 2007.

The Finance minor is available to students enrolled in the Monte Ahuja College of Business or in other colleges of the university. For more information on the 19-credit Finance minor, please call the Finance Department at 216-687-4716.

Information Systems

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- At-a-Glance
- Major-Field Requirements
  Recommended Program
- IST Courses
- Go to Computer & Information Science website

Information Systems (B.B.A.)
At-a-Glance

Admission to major: 2.0 grade-point average or better and completion of all College of Business Administration lower-division requirements.

Advising: A student should consult with department faculty on a regular basis for course selection. Each student can also be assigned an adviser by the department after declaring the major; phone: 216-687-4760.

Student organizations: Association for Computing Machinery (ACM) The information systems (IS) major is designed to prepare a student for a career in information systems by focusing on the use of current information technology within the context of an organization. IS, as an academic discipline it encompasses three broad areas:

- acquisition, deployment and management of information technology (IT) resources and services;
- development of IS infrastructure to support the organization process; and
- development of business-oriented application systems.

The IS function in an organization has a broad responsibility:

- acquisition, development and management of IT, such as computers and communications;
- development and management of corporate data;
- tracking new information technology;
- assisting users in use of new technology; and
- assisting in organization-wide IT strategy planning and implementation.

Graduates of IS programs will have a combined preparation in business core courses and applied computing. They will not only have the necessary managerial and business knowledge to solve business problems in functional areas such as accounting, finance, marketing and management, but also technical skills to develop and support information systems with a varying degree of scope.

Major-Field Requirements

Required Courses:

- IST 203 Software Tools for Personal Productivity [1]
- IST 211 Fundamentals of Systems Development
- IST 221 Information Systems in the Organization
- IST 311 Advanced Programming of Business Systems
- IST 321 Systems Analysis Methods
- IST 331 Modern Database Design and Implementation

- IST 341 Management of Business Networks
- IST 420 Project Management for Information Systems
- IST 465 Enterprise Integration Systems

Electives[2]:

Choose at least 10 hours from the following courses.

- IST 410 Object-Oriented Programming for Business Applications (4 credit hours)
- IST 430 Knowledge Management (3 credit hours)
- IST 440 Decision Support and Business Intelligence Systems (4 credit hours)
- IST 445 Information System Security (4 credit hours)
- IST 450 Web-Based Programming (4 credit hours)
- IST 461 Electronic Business (3 credit hours)
- IST 462 Business Process Modeling and Design (3 credit hours)
- IST 470 Managing IT Infrastructure (3 credit hours)
- IST 490 Professional Internship (1 credit hour)
- IST 493 Special Topics in Information Systems (1 to 4 credit hours)
- IST 496 Independent Study (1 to 4 credit hours)

Math Courses

Although MTH 148-149 may be used to satisfy the math requirement, students are encouraged to take MTH 181-182 as an alternative.

Further Note:

All IST and CIS courses must be passed with a grade of C or better.

The CIS Department also offers another degree, the *Bachelor of Science in Computer and Information Science*.Sample Program of Study [2]

First Semester	**Credits**
ENG 101 English I	3
MTH 151 Math Concepts [1]	1
MTH 152 Math Concepts [1]	2
MTH 153 Math Concepts [1]	1
BUS 151 Intro College Life	3
Natural Science With Lab [2]	4
BUS 101 Intro College Life [3]	1
Total	15
Second Semester	**Credits**
ENG 102 English II	3

MTH 154 Math Concepts [1]	1
MTH 155 Math Concepts [1]	2
MTH 156 Math Concepts [1]	1
IST 203 Software Tools	3
ECN 201 Prin of Macro	3
Social Diversity Course [2]	3
Total	16
Third Semester	**Credits**
ECN 202 Prin of Micro	3
OSM 201 Bus Stat I	3
GAD 250 Bus Com, (W)	3
ACT 221 Intro Act I	3
IST 211 Fund. of Sys Dev	4
Total	16
Fourth Semester	**Credits**
Arts and Humanities [2]	3
OSM 202 Bus Stat II	3
ACT 222 Intro Act II	3
Natural Science [2]	3
IST 221 Info Sys in Org	3
Total	15
Fifth Semester	**Credits**
MKT 301 Intro to Marketing	3
MKT 351 Bus, Soc & Gov (W) ***or*** BLW 411 Bus. Law, Ethics (W)	3
ECN 302 Inter. Microeconomics	3
IST 311 Adv Prog of Bus. Systems	4
IST 321 Systems Analysis Methods	4
Total	17

Sixth Semester	**Credits**
OSM 311 Intro to Operations Mgt	3
MLR 321 Organizational Behavior	3
IST 331 Design and Imp. of DBMS	4
IST 341 Networks and Telecomm.	4
Arts and Humanities [2]	3
Total	17
Seventh Semester	**Credits**
Business Elective	2
IST Elective	4
IST Elective	3
Social Science [2]	3
FIN 351 Intro to Financial Mgt	4
Total	17
Eighth Semester	**Credits**
MLR 465 Mgt. Strat. and Pol.(W)	3
Social Diversity [2]	3
IST Elective	3
IST 465 Enterprise Systems	3
IST 420 Project Management	4
Total	16

[1] MTH 181-182 may be substituted for MTH 151-156

[2] Students should see a faculty adviser before scheduling.

[3] BUS 101 is not required for transfer students.

International Business

On this page:

- Back to Business Degree Listing
- INB Courses
- Go to International Business Program website

International Business (B.B.A.)
At-a-Glance

The Bachelor of Business Administration degree in International Business (INB) prepares students to manage and lead in a variety of internationally oriented organizations in today's increasingly interdependent, global economy. This major allows students to gain the knowledge and skills required for international business careers while developing an understanding of the political, cultural and regulatory environments that shape international business and trade.

International business majors take a comprehensive curriculum that includes courses in business, language, political science, and culture that are related to their region of interest, and are strongly encouraged to participate in study-abroad and internship programs offered by the Monte Ahuja College .

Admission to major: Completion of all College of Business Administration lower-division requirements and a grade of “C” or better in INB 301.

International Business credit hours required for major: A minimum of 32 beyond the College of Business core requirements with a minimum grade of C in each course.

Advising: International business (INB) majors and prospective majors should consult with the Department of Marketing, which is responsible for administering the INB Program. Call 216-687-4771 to make an appointment.

Web site: www.csuohio.edu/business/academics/mkt/inb.html

Major-Field Requirements

International business majors who are newly-admitted to CSU for Fall 2009 must take 34 credit hours beyond the college core requirements in the following five components:

I. International Business Core Component

The INB major must take four courses in the INB Core.

Mandatory:

- INB 301 International Business (4-0-4) OR
  MKT 321 International Business (4-0-4);

Note: INB 301 is cross-listed with MKT 321.

Choose *any three courses* from the following list:

- FIN 465 International Finance & Investment (4-0-4)
- ACT 460 International Accounting (3-0-3)

- MKT 461 Global Marketing (4-0-4)
- MLR 487 International Management
- OSM 425 International Operations Management (3-0-3)
- IST 461 E-Business (3-0-3)
- ECN 482 International Economics (4-0-4)
- INB 493 Special Topics (1-4)
- INB 496 Independent Study (1-4)

II. Language Component

INB majors are required to have competency in a language other than English. Students entering CSU with 200-level proficiency in speaking and writing skills of another language will be waived from this requirement. All other students must complete the intermediate level sequence (201/202 or other approved courses) of a foreign language.

III. Political and Cultural Component

Students must choose *one course* from the following list.

- PSC 231 International Politics (4-0-4)
- PSC 324 Russia and the Successor States (4-0-4)
- PSC 325 Western European Politics (4-0-4)
- PSC 328 International Political Economy (4-0-4)
- PSC 331 US Foreign Policy (4-0-4)
- PSC 333 Latin American Politics (4-0-4)
- PSC 335 East Asian Politics (4-0-4)
- PSC 338 Central and Eastern Europe (4-0-4)
- HIS 200 Introduction to Geography (4-0-4)
- HIS 320 US Foreign Policy since 1900 (4-0-4)
- SOC 210 Sociology of the Third World (3-0-3)
- SOC 389 Sociology of Non-Western Societies (4-0-4)

In order to get sufficient exposure to international business environments, students who are fulfilling General Education Requirements are encouraged to choose western, nonwestern and social science courses that have signficant international content. Consult with the INB adviser for a list of recommended courses.

IV. INB Experiential Component

Students must choose *one course* from the following list.

- MKT 440 Marketing Field Experience Abroad (4 credits)
- INB 490 International Business Internship (1-4 credits)
- INB 491 International Study Tour (3 credits)
- INB 492 International Business Study Abroad (1- 4 credits)

Students who participate in INB 490 (International Business Internship) can register in approved classes at partnering universities. The credit hours earned at the partnering university will be transferred as credits earned under INB 492.

V. International Business Consultancy

The INB major must take:

- INB 495 Consulting (4 credits)

Recommended Program*

Fifth Semester	Credits
MKT 301 Fundamentals of Marketing	3
ECN 302 Intermediate	3
MLR 321 Organizational Behavior	3
MKT 351 Business, Society and	3
INB 301/MKT 321 International	4
Total	16
Sixth Semester	Credits
FIN 351 Introduction to Financial	4
BLW 411 Business Law and Ethics	3
OSM 311 Introduction to Production	3
IST 305 IT for Competitive Adv	3
International Business Core Elective I	3
Total	16
Seventh Semester	Credits
International Business Core Elective II	3
International Business Core Elective III	4
Political/Cultural Elective	4
Modern Language Elective	4
Total	15
Eighth Semester	Credits
MLR 465 Management Strategy and	3
INB 495 Consulting	4
Experiential Requirement	4
Modern Language Elective	4
Total	15

(W) *indicates a Writing-Across-the-Curriculum course for university requirements. A minimum grade of C is required to satisfy the writing requirement.*

Note: In order to be eligible to enroll in the language courses required for the International Business major, students must have at least introductory level proficiency (101/102) in a foreign language. If the introductory and/or intermediate level courses are bypassed or waived, additional electives will be needed to reach the 128 credit-hour total required for graduation. International Business majors are strongly advised to enroll in additional language courses if such elective hours are needed.

Minor-Field Requirements

The International Business minor is recommended for business and non-business students who want to consider global business careers or want to complement their area of study. Credit-hour requirements for the International Business minor is 19 credit hours, plus foreign language proficiency.

Admission Requirements

- Junior Standing (60 credit hours earned).
- Must be admitted to a major program of study.

Curriculum Requirements

Minimum Requirements for the Minor: 19 credit hours, plus foreign language proficiency as specified below.

I. International Business Foundation Course (Required—4 credits)
INB 301 Introduction to International Business*(4-0-4)

*MKT 321 International Business may be substituted for INB 301.

II. Business Fundamentals (Choose TWO-- 6-7 credits)

- ACT 221Introductory Accounting I (3-0-3)
- ACT 222 Introductory Accounting I (3-0-3)
- FIN 351 Introduction to Financial Management#(4-0-4)
- MKT 301 Introduction to Marketing(3-0-3)
- MLR 321Organizational Behavior(3-0-3)
- OSM 311 Introduction to Operations Management#(3-0-3)

(Note: Courses marked with a # have prerequisites. Please see the online Undergraduate Catalog for details.)

III. International Business Focus (Choose ONE—3-4 credits)
- ACT 460 International Accounting# (3-0-3)
- FIN 365 International Finance# (4-0-4)
- MLR 487 International Management# (3-0-3)
- MKT 461 Global Marketing # (4-0-4)
- OSM 425 International Operations Management#(3-0-3)

IV. International Culture and Experience (Choose ONEâ€”3-4 credits)
- HIS 320 US Foreign Policy since 1900 (4-0-4)
- PSC 231 International Politics(4-0-4)
- PSC 324 Russia and the Successor States I (4-0-4)
- PSC 325 Western European Politics(4-0-4)

- PSC 328 International Political Economy (4-0-4)
- PSC 331 US Foreign Policy(4-0-4)
- PSC 333 Latin American Politics(4-0-4)
- PSC 335 East Asian Politics (4-0-4)
- PSC 338 Central and Eastern Europe (4-0-4)
- SOC 389 Sociology of Non-Western Societies#(4-0-4)
- ECN 482 International Economics# (4-0-4)
- INB 490 International Business Internship#(1-4)
- INB 492 International Business Study Abroad# (1-4)
- INB 496 Independent Study (1-4)
- IST 461 E-Business (Heidenheim, Germany)#(3-0-3)
- MKT 440 Marketing Field Experience (UK)#(4-0-4)
- Other university-sponsored study-abroad programs for credit or cultural studies courses (subject to approval by International Business Programs advisor.) (1-4)

V. International Business/Cultural/Experiential Elective (Choose ONE—3-4 credits)

Choose ONE or more courses from the selection of courses listed above in Group III or IV.

Second Language
Students pursuing the minor in International Business are strongly encouraged to enroll in intermediate-level World Language courses for further skill development.

For information about the International Business Minor:

Call or visit the College of Business Global Business Center (telephone: 216-523-7347; room: BU 327) or the College of Business Undergraduate Advising Center staff (telephone: 216-687-3729; room: BU 219).

Management and Labor Relations (B.B.A.)

At-a-Glance

Admission to Major: Completion of all College of Business Administration lower-division requirements

Advising: Majors should contact the Undergraduate Business Advising Office in BU 219 (216-687-3729) for an advising appointment

Student organizations: Student Chapter, Society for Human Resource Management

Faced with changing markets, dynamic technologies, globalization, and increasingly diverse work forces, today's managers must be prepared to meet a multitude of challenges and opportunities. The Department of Management and Labor Relations offers courses, degrees, and certificate programs that can prepare students to become effective managers for the 21st century.

The department offers both a major and a minor. Students who choose to major in Management and Labor Relations select either the Human Resource Management or General Management track for concentration. Students completing minors complete core courses, plus a focus area of their choosing.

Courses in the Management and Labor Relations major qualify students for entry-level positions in management, and should enable them ultimately to assume managerial positions in a variety of profit or nonprofit organizations.

Major-Field Requirements

For students who are newly-admitted to CSU for Fall 2009, the requirements for a major in MLR are as follows: complete 23 credits of MLR courses beyond MLR 301, 302, and 340. MLR 321 and MLR 465 are College Core required courses and are not counted in the 23 hours. Please consult with a business adviser for specific recommended courses. Students admitted to CSU prior to Fall 2009 should consult the *Undergraduate Catalog* or see an adviser. Students majoring in Management and Labor Relations are required to complete these core requirements:

- MLR 301 Principles of Management
- MLR 302 Principles of Labor Relations
- MLR 340 Human Resource Management

In addition to the department's core courses, students are required to select a track and complete course requirements for the track that they have chosen to follow.

Major tracks: Management and Labor Relations majors choose to follow either the General Management track or the Human Resource Management track (see descriptions below).

General Management Major Track:

This program focuses on developing a student's technical knowledge of the key management functions of planning, controlling, organizing, leading, and problem-solving. In addition, students are given opportunities to develop basic interpersonal skills vital to successful management of people in organizations.

Students choosing the General-Management track must complete nine credits from the following courses:

- MLR 404 Organizational Theory and Design

- MLR 421 Comparative Labor Systems
- MLR 443 Entrepreneurship
- MLR 447 Cross-Functional Management
- MLR 477 Managerial Skill Development
- MLR 487 International Management
- MLR 490 Internship
- MLR 493 Special Topics
- MLR 496 Independent Study

Students must also take 14 additional MLR elective hours. Students should consult with their adviser to determine appropriate elective courses.

Human Resource Management Major Track:

This program focuses on developing a student's knowledge and skills in areas related to the development and management of human resources.

Courses in this track explore many of the contemporary issues facing human resource professionals today, and provide students with an introduction to challenges they will face in their future careers.

Students choosing the Human Resource Management track must complete nine credits from the following courses:

- MLR 341 Compensation and Benefits
- MLR 342 Staffing Organizations
- MLR 343 Employee Training and Development
- MLR 411 Labor History
- MLR 422 Labor Law
- MLR 431 Employment Practices Law
- MLR 455 Labor-Management Cooperative Practices
- MLR 457 Human Resource Information Systems
- MLR 490 Internship
- MLR 493 Special Topics
- MLR 496 Independent Study

Students must also take 14 additional MLR elective hours. Students should consult with their adviserto determine appropriate elective courses.

Recommended Program

Fifth Semester	**Credits**
MLR 301 Principles of Management	3
MLR 302 Principles of Labor	3
ECN 302 Intermediate Microeconomics *	3
MKT 351 Business, Society, and Government * (w)	3
FIN 351 Introduction to Financial Management *	4
Total	16

Sixth Semester	**Credits**
MLR 321 Organizational Behavior *	3
MLR 340 Human Resource Management	3
MKT 301 Fundamentals of Marketing *	3
MLR Track Requirement/Elective	3
MLR Track Requirement/Elective	3
Total	15
Seventh Semester	**Credits**
OSM 311 Introduction to Operations Management *	3
IST 305 Information Technology *	3
MLR Track requirement/Elective	3
BLW 411 Business Law and Ethics * (w)	3
MLR Track requirement/Elective	3
Total	15
Eighth Semester	**Credits**
MLR 465 Management Strategy and Policy * (w)	3
MLR Track requirement/Elective	3
MLR Track requirement/Elective	3
MLR Track requirement/Elective	3
MLR Track requirement/Elective	3
Humanities and Arts	3
Total	18

*B.B.A. core courses must be completed prior to taking MLR 465, the capstone course.

(w): Counts as a writing course for university graduation requirements. Three writing courses are required.

Minor-Field Requirements

The department also offers a 15-credit minor in Management and Labor Relations. The minor has three core courses: MLR 301, MLR 321, and MLR 340. Students choose the remaining courses from focus areas of either general management, human resource management, labor relations, or health care administration.

Minor Focus Areas:

General Management (select any two courses)

- MLR 404 Organizational Theory and Design
- MLR 443 Entrepreneurship
- MLR 447 Planning and Control
- MLR 477 Managerial Skill Development
- MLR 487 International Management

Human Resource Management (select any two courses)

- MLR 341 Compensation and Benefits
- MLR 342 Staffing Organizations
- MLR 343 Employee Training and Development
- MLR 431 Employment Practices Law
- MLR 455 Labor-Management Cooperative Practices
- MLR 457 Human Resource Information Systems

Labor Relations (select any two courses)

- MLR 302 Principles of Labor Relations
- MLR 411 Labor History
- MLR 421 Comparative Labor Systems
- MLR 422 Labor Law
- MLR 423 Labor Relations in Public Sector Employment

Health Care Administration

- HCA 301 American Health Care System
- HCA 420 Management of Health Care Organizations

Marketing

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Marketing (B.B.A.)
At-a-Glance

Marketing is a visible cultural phenomenon and an indispensable business activity for profit and nonprofit organizations worldwide. Marketing generates revenue for the firm by identifying customer needs and responding to them creatively and profitably by developing, pricing, promoting, and distributing goods and services. Because of its central role in the success of a business, marketing represents a promising career path to top management positions.

Students graduating with a major in marketing can qualify for entry-level positions in sales, public relations and advertising, product management, fundraising, customer service, marketing research, retailing management, wholesale distribution, marketing planning, and related areas in business, government, and nonprofit organizations.

Admission to major: Completion of lower-division business requirements and a grade of “C” or better in MKT 301.

Special tracks: Consumer marketing, business-to-business marketing, international marketing, database marketing, and online marketing

Marketing credit hours required for major: A minimum of 32 beyond the College of Business core requirements with a minimum grade of C in each course.

Student organizations: Student chapter, American Marketing Association. For more information, call the student chapter office at 216-523-7301 or visit the Department of Marketing’s webpage at www.csuohio.edu/business/academics/mkt.

Advising: Students who declare marketing as a major will be assigned a faculty adviser by the department. The student should meet regularly for advice on course work and other academic or professional issues. For advising information, call 216-687-4771, inquire by e-mail at marketing@csuohio.edu or visit the department office in Ahuja Hall 460.

Additional information: Internships, cooperative education arrangements, independent study projects, and international study programs are available. A major in marketing can be earned by attending either day or evening classes. At least two electives and all of the required courses are offered regularly in the evening during the academic year.

Major-Field Requirements

Students who are newly-admitted to CSU for Fall 2009 and majoring in marketing must complete a minimum of 32 credit hours of marketing coursework beyond the college core requirements, which include MKT 301.

A) The following four courses (16 credit hours):

- MKT 420 Consumer Behavior
- MKT 431 Marketing Research
- MKT 464 Marketing Strategy
- MKT 495 Consultancy

B) And a minimum of four marketing electives (16 credit hours). (See list of elective courses below under "Minor-Field Requirements.")

Students should note the prerequisites for all courses. Students taking courses without having the proper prerequisites may lose credit and may be required to take additional courses.

Below is a suggested sequence for completing the B.B.A. degree in marketing.

Recommended Program

Fifth Semester	**Credits**
MKT 301 Fundamentals of Marketing	3
MKT 351 Business, Society, and Government *	3
FIN 351 Introduction to Financial Management	4
MLR 321 Organizational Behavior	3
IST 305 Information Technology	3
Total	16
Sixth Semester	**Credits**
MKT 420 Consumer Behavior	4
MKT 431 Marketing Research	4
ECN 302 Intermediate Microeconomics	3
OSM 311 Introduction to Operations Management	3
BLW 411 Business Law & Ethics*	3
Total	17
Seventh Semester	**Credits**
MKT 464 Marketing Strategy	4
Marketing Elective	4

Marketing Elective	4
Marketing/Business Elective	3/4
Total	15/16
Eighth Semester	**Credits**
MLR 465 Management Strategy and Policy *	3
MKT 495 Consulting	4
Marketing Elective	4
Marketing Elective	4
Total	15

**Counts as a Writing-Across-the-Curriculum course. Three writing courses are required by the university.*

Minor-Field Requirements

The marketing minor is recommended for business and non-business students who want to consider sales and marketing careers or want to complement their area of study. Credit-hour requirements for the marketing minor will range from 16 hours for a business student up to a maximum of 19 hours for a non-business student.

Core Course:

- MKT 301 Fundamentals of Marketing

Elective Courses (choose any four courses):

- MKT 321 International Business OR
  INB 301 Introduction to International Business
- MKT 411 Retailing Strategy and Management
- MKT 420 Consumer Behavior
- MKT 431 Marketing Research
- MKT 440 Field Experience Abroad
- MKT 441 Integrated Marketing Communications
- MKT 450 Professional Selling and Salesforce Management
- MKT 452 Business-to Business Marketing
- MKT 454 Online Marketing Strategies
- MKT 456 Customer Relationship Management
- MKT 461 Global Marketing Strategy

Note: MKT 351 will not count as an elective course for the major or the minor.

Operations and Supply Chain Management

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Operations and Supply Chain Management (B.B.A.)
At-a-Glance

Admission to major: Completion of all College of Business Administration lower-division requirements

Major: 30-32 credit hours beyond the College Core requirements

Minor: 16 credit hours

Specializations: A student may be a general OSM major or optionally may specialize in one or more of the following areas: supply chain management, global operations management, business analytics, and project management.

Advising: Operations and Supply Chain Management majors are assigned a faculty adviser by the department office.

Student organization: Student Chapter, APICS (American Production and Inventory Control Society)

Additional information: Cooperative education and internship programs with local businesses, and international travel opportunities are available.

Today, without doubt, the crucial need for businesses, competing in the global marketplace to be successful and sustainable, requires competence and expertise in the areas of operations and supply chain management. The operations and supply chain management responsibilities include sourcing, procurement, distribution and transportation, process scheduling and improvement, both within and across companies. The field is rapidly growing with improvement in technology, leading to an expansion in new career opportunities. The goal of the B.B.A major in Operations and Supply Chain Management is to provide students the background needed to become business leaders who will be equipped to solve complex supply chain challenges.

Major-Field Requirements

For students who are -admitted to CSU after Fall 2009, the requirement for a major in Operations and Supply Chain Management is to complete 30-32 credit hours in the College of Business Administration (CBA) beyond the College Core requirements.

Students admitted to CSU **prior to** Fall 2009 must take 20 credit hours of OSM courses beyond the College Core requirements. These courses are designated as OSM major electives. Students admitted to CSU after

Fall 2009 must take 30-32 credit hours (around 8 courses) of OSM major electives. Students are encouraged to check with the department chair when choosing elective courses.

The OSM program is designed to provide a strong foundation in all aspects of operations management and supply chain management as well as exposure to the analytical tools used in the field. However, for students who want to focus on a specialization, we provide four possible tracks to choose from.

Supply Chain Management. The following list of courses is recommended:

OSM 412 Supply Chain Modeling (4-0-4)
OSM 413 Production Planning and Control (4-0-4).
OSM 424 Transportation Management (4-0-4)
OSM 417 Principles of Lean Operations (4-0-4)
OSM 419 Operations Strategy (4-0-4)
OSM 427 Strategic Sourcing and Purchasing Management (4-0-4)
OSM 438 International Field Experience in Supply Chain Management (0-3-3)
OSM 490 Professional Internship (1 to 4 credits)

Global Operations Management. The following list of courses is recommended:

OSM 415 Case Studies in Operations Management (4-0-4)
OSM 425 International Operations Management (3-0-3)
OSM 419 Operations Strategy (4-0-4)
OSM 421 Service Operations Management (4-0-4)
OSM 438 International Field Experience in Supply Chain Management (3-3-0)
OSM 445 Quality Control and Management (4-0-4)
OSM 448 Queuing and Simulation (4-0-4)
OSM 490 Professional Internship (1 to 4 credits)

Business Analytics. The following list of courses is recommended:

OSM 431 Design of Survey Samples using SAS (4-0-4).
OSM 433 Data Analysis using SAS (4-0-4).
OSM 434 Multivariate Analytics using SAS (4-0-4)
OSM 435 Applied Business Forecasting (4-0-4)
OSM 445 Quality Control and Management (4-0-4)
OSM 490 Professional Internship (1 to 4 credits)

Project Management. The following list of courses is recommended:

OSM 422 Project Management (3-2-4)
OSM 312 Supply Chain Analytics (4-0-4)
OSM 419 Operations Strategy (4-0-4)
OSM 421 Service Operations Management (4-0-4)
OSM 442 Innovation Management (4-0-4)
OSM 490 Professional Internship (1 to 4 credits)

For Careers in the Manufacturing Industry:

Students interested in manufacturing careers should take the four courses corresponding to the test modules of CPIM certification of the American Production and Inventory Control Society (APICS), namely OSM 413, 417, 419, and 427 . CPIM certification is essential for promotion to managerial positions in the manufacturing area.

Students should note the prerequisites for all courses. Students taking courses without having fulfilled the proper prerequisites may lose credit and may be required to take additional courses.

Listed below is a suggested schedule for completing the OSM major. OSM 311 Introduction to Operations Management can be taken at an earlier semester as long as the student completes OSM 201.

Recommended Program for Operations and Supply Chain Management

Fifth Semester	**Credits**
ECN 302 Intermediate Micro-economics	3
FIN 351 Introduction to Financial Management	4
OSM 311 Introduction to Operations Management	3
MKT 301 Fundamentals of Marketing	3
MLR 321 Organizational Behavior	3
Total	16
Sixth Semester	**Credits**
MKT 351 Business, Society, and Government (w)	3
IST 305 Information Technology	3
BLW 411 Business Law and Ethics (w)	3
OSM Major Elective	4
OSM Major Elective	4
Total	17
Seventh Semester	**Credits**
OSM Major Elective	4
OSM Major Elective	4
OSM Major Elective	4
OSM Major Elective	4
Total	16
Eighth Semester	**Credits**
OSM Major Elective	4
OSM Major Elective	4
Elective (OSM or other business)	4

MLR 465 Management Strategy and Policy (w)*	3
Total	15

***** All B.B.A. core courses listed above must be completed prior to taking MLR 465, the capstone course in the BBA curriculum.

(w) Counts as a writing course for university graduation requirements. Three writing courses are required.

Minor-Field Requirements

Students obtaining a minor in OSM must satisfy the requirements in levels 1 and 2 below.

Level 1: Any **two** of the following three courses:

- OSM 201 Business Statistics I
- OSM 202 Business Statistics II
- OSM 311 Introduction to Operations Management

These three courses can be waived based upon proof of prior equivalent course work. Normally, these prior courses should not be taken more than five years before the declaration of the OSM minor.

Level 2: At least 10 credit hours from OSM elective courses(not including OSM 311).

Recommendation : Students minoring in Supply Chain Management should take the following courses:

Level 1: OSM 201, OSM 311

Level 2: Any three or four of the following: OSM 412, OSM 413, OSM 415, OSM 417, OSM 419, OSM 421, OSM 422, OSM 424, OSM 425, OSM 427, OSM 438, OSM 490,.

Certificate Programs

- Arts Management
- Business Biotechnology

Bachelor of Science in Computer and Information Science (BSCIS)

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Bachelor of Science in Computer and Information Science (BSCIS) Program

The Bachelor of Science in Computer and Information Science (BSCIS) program is the University's degree program in Computer Science. It is designed to prepare the student for a professional career which uses theory and practice of computing or for graduate work in computer science . The curriculum reflects current computing trends and provides the latest computer technology to enable a CIS graduate to be very competitive in the marketplace.

Two tracks are offered under the BSCIS degree:

- The CIS (Computer and Information Science) track is designed for students interested in incorporating an applied area in their degree program. A student in this track will choose a concentration area from among several different areas of study. Areas of study include use of computing in all branches of engineering, business, and sciences. Other areas of study can be chosen once approved by a student's adviser.

- The CSC (Computer Science) track is designed for those students interestedin a stronger theoretical and quantitative emphasis or who are planning to pursue graduate study.

The CIS Department also offers the Information Systems major for the Bachelor of Business Administration degree.

The department offers many courses during the evening hours. The evening sections of beginning courses are offered each semester. Evening sections of electives are typically offered once a year.

NOTE: Students in the BSCIS program may be allowed to enroll in business courses. However, College of Business Administration accreditation rules require that no more than 25 percent (i.e., 32 semester hours) of the course work counted toward a non-business bachelor's degree, including the BSCIS degree, may be business or upper-level economics courses unless the student also completes all of the Common Body of Knowledge (CBK) courses listed by the College of Business Administration. The 18 CBK courses are: BUS 151, ACT 221, ACT 222, BLW 411, ECN 201, ECN 202, ECN 302, FIN 351, GAD 250, IST 203, IST 305, MKT 301, MKT 351, MLR 321, MLR 465, OSM 201, OSM 202, and OSM 311.

Computer and Information Science (CIS)

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Computer and Information Science Track (BSCIS)
At-a-Glance

Admission to major: 2.00 grade-point average, plus a grade of C or better in MTH 181 or an average grade of C+ (2.3) or better in MTH 148, plus a grade of C+ or better in CIS 260.

Concentration areas: Many specialization areas are possible through the selection of a concentration area (see below).

Advising: A student should consult with a department faculty member on a regular basis for course selection. Each student can also be assigned an adviser by the department after declaring the major; phone 216-687-4760. Students should consult with the Advising Center of the Monte Ahuja College (BU 219) for most advising , curriculum, or program issues.

Student organizations: Association for Computing Machinery (ACM)

Additional information: Each student is required to choose a concentration area in any field related to computer and information science and take at least 16 semester hours in this area. Some typical choices are:

- *Business:* accounting, finance, marketing, management and labor relations, or operations and supply chain management, or information systems
- *Engineering:* most commonly electrical engineering and electronic engineering technology
- *Mathematics*
- *Natural Science:* biology, chemistry, or physics

A concentration within the CIS Department may be selected with written permission of the student's CIS adviser.

By choosing a concentration area, the student may prepare for a career using computers in that area.

Note:

The CIS Department also offers an Information Systems major in the B.B.A. degree.

Major-Field Requirements

The following list provides a relatively complete guide to the academic requirements for a program of study in the Computer and Information Science (CIS) track of the Computer and Information Science major. Each student's specific program requires the approval of the department adviser.

1. General Education Requirements. Students should see an adviser in the Business College Office (BU 219) before choosing electives to satisfy General Education Requirements in the following areas: Mathematics or Logic, Arts/Humanities, Social Science, Natural Science, Social Diversity and Writing Across the Curriculum.
2. Eighteen semester hours of mathematics chosen from one of two sequences as follows:
    a. (Recommended for all students) MTH 181-182 (Analytical Geometry and Calculus), MTH 220 (Introduction to Discrete Mathematics), MTH 284 (Matrices for Engineers), and MTH 323 (Statistics with Probability)
    b. (Not available for engineering, science, or quantitative business. concentrations) MTH 148-MTH 149 (Math for Business Majors I and II), MTH 220 (Introduction to Discrete Mathematics), OSM 201 and OSM 202 (Business Statistics).
3. A ten-semester-hour approved sequence in a Natural Science with Laboratory. Recommended sequences are PHY 243 and PHY 244 for students with calculus, and PHY 221 and 222 for others.
4. Twenty-six semester hours of a Computer and Information Science core program: CIS 260 (Introduction to Programming), CIS 265 (Data Structures and Algorithms), CIS 335 (Language Processors), CIS 340 (C/C++ For Systems Programming), CIS 345 (Operating System Principles), and CIS 368 (Object Oriented Design and Programming), CIS 485 (Senior Project)
5. A minimum of 20 semester hours of Computer and Information Science electives.
6. Four hours of Project Management, IST 420 (Project Management).
7. Introduces CIS 151 (Invitaion to Computing) for students interested in gaining an overview of the computing discipline. This course should be taken before taking CIS 260. This course can be substituted if a student has CS AP credit or has completed a college level programming course.
8. Each student must select an area of specialization in any field related to Computer and Information Science. At least 16 semester hours must be in this area, with at least 9 semester hours at the 300 level or higher. The area of specialization must be carefully related to the student's program and approved by the student's adviser. Sample programs of study showing a concentration in the various areas of business, engineering, technology, science, or mathematics are available from the department. Other programs, including concentrations within the CIS Department, that are tailored to the individual student's needs must be individually approved.
9. At least 46 semester hours must be earned in courses at the 300 level or above.
10. A minimum total of 128 credit hours.

Suggested Program:

[Note: Students should consult with a college adviser before choosing General Education electives. This is particularly important for CIS majors completing the CSC track.

[Note: courses marked with a W satisfy the Writing-Across-the-Curriculum requirement. Please consult with a college adviser for the courses that satisfy the Writing-Across-Curriculum requirement.]

[Note: Students should consult with a CIS Department faculty adviser before choosing concentration or CIS electives.]

Suggested Program of Study for the CIS Major using the CIS track	
First Semester	**Credits**

ENG 101 English I	3
MTH 181 Calculus and Analytical Geometry I [1]	4
CIS 151 Invitation to Computing [3]	3
Social Diversity [2]	3
BUS 101 Intro to College Life	1
Total	14
Second Semester	**Credits**
Arts and Humanities[1]	3
ENG 102 English II	3
MTH 182 Calculus and Analytical Geometry [1]	4
CIS 260 Intro to Programming	4
Social Science Elective[2]	3
Total	17
Third Semester	**Credits**
PHY 243 University Physics I (W)[4]	5
Arts and Humanities elective[2]	3
MTH 284 Matrices for Engineers [5]	2
CIS 265 Data Structures and Algorithms	4
Social Science Elective	3
Total	17
Fourth Semester	**Credits**
PHY 244 University Physics II [4]	5
Social Diversity[2]	3
CIS 340 C/C++ for System Prog.	2
CIS 335 Language Proc.	4
Concentration Elective[3]	3
Total	17

Fifth Semester	**Credits**
MTH 200 Discrete Math	4
CIS 368 OO Design & Prog.	4
CIS 345 Oper. System	4
Concentration Elective	3
Total	15
Sixth Semester	**Credits**
MTH 323 Statistical Methods [5]	4
IST 420 Project Management	4
CIS Elective	4
CIS Elective	4
Total	16
Seventh Semester	**Credits**
CIS Elective	4
CIS Elective	4
Concentration Elective	3
Concentration Elective	3
Open elective	3
Total	17
Eighth Semester	**Credits**
CIS 485 Senior Project	4
CIS Elective	4
Concentration Elective	4
Open Elective(s)	3
Total	15

1 The Analytical Geometry and Calculus sequence (MTH 181-182) may be substituted for Math Concepts (MTH 148-149)

[2] Students should consult with a college adviser before choosing General Education electives.

[3] CIS 151 can be substituted for any student with either AP (CS) credit, or by completing any college level programming language course such as CIS 260 or IST 211.

[4] PHY 243 and 244 can be substituted by PHY 221 and PHY 222 for those not taking the calculus sequence..

[5] MTH 284 and MTH 323 can be substituted by OSS 201 and OSM 202...

Additional Major-Field Requirements

1. In order to declare CIS as the major, the student must have completed one semester of Calculus (MTH 181) with a grade of C (2.00) or better, or one semester of Mathematical Concepts (MTH 148) with a grade of C+ (2.30) or better; and CIS 260 (Introduction to Programming) with a grade of C+ (2.30) or better. The student must also have an overall grade-point average of 2.00 or better.
2. All computer and information science courses must be passed with a grade of "C" or better.
3. Any computer and information science course taken without prior satisfactory completion of all catalog prerequisite courses will not be counted toward fulfillment of graduation requirements.

Students who intend to major in CIS should see an adviser in the CIS Department as soon as possible (no later than the end of the freshman year), even if they have not yet completed MTH 181 and CIS 260.

Computer and Information Science (BSCIS)

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Computer Science Track (CSC)
At-a-Glance

Admission to major: 2.00 grade-point average, a grade of C (2.00) or better in MTH 181, and a grade of C+ (2.30) or better in CIS 260.

Advising: Students should consult with department faculty members on a regular basis for advice on course selection. Each student will also be assigned an adviser by the department after declaring the major. The CIS Department can be reached at 216-687-4760. Students should consult with the Advising Center of the Monte Ahuja College (Ahuja Hall BU 219) for most advising or curriculum and program issues.

Student organizations: Association for Computing Machinery (ACM)

Note:

The CSC track is distinguished from the CIS track by its higher requirements in computer science, mathematics, and natural science. This track is recommended for those students who want a stronger theoretical foundation or who plan to go to graduate school. The CIS Department also offers an Information Systems major in the B.B.A. degree program.

Major-Field Requirements

The following list provides a relatively complete guide to the academic requirements for a program of study in the Computer Science (CSC) track of the Computer and Information Science major. Each student's specific program requires the approval of the department adviser.

1. General Education Requirements. Students should see an adviser in the Business Advising Office (BU 219) before choosing electives to satisfy General Education Requirements in the following areas: Mathematics/Quantitative Literacy, Arts/Humanities, Social Science, Natural Science, Social Diversity and Writing Across the Curriculum (including Speaking Across the Curriculum.
2. Twenty-two semester hours of mathematics: MTH 181 - 182 (Calculus I and II); MTH 220 (Introduction to Discrete Mathematics); MTH 284 (Matrices for Engineers) or MTH 288 (Linear Algebra); MTH 311 (Numerical Analysis); and MTH 323 (Statistical Methods).
3. A 16-semester-hour science/quantitative sequence: PHY 243 and PHY 244, and the remainder in any science or quantitative courses at the 200 level or above.
4. A 37-semester-hour computer science core sequence: CIS 260 (Introduction to Programming), CIS 265 (Data Structures and Algorithms), CIS 335 (Language Processors), CIS 340 (C/C++ For Systems

Programming), CIS 345 (Operating System Principles), CIS 368 (Object Oriented Design and Programming), CIS 424 (Comparative Programming Languages), CIS 480 (Introduction to Computer Architecture), CIS 490 (Foundations of Computing), CIS 485 (Senior Project).

5. A minimum of 20 semester hours of computer and information science electives.
6. Four hours of Project Management, IST 420 (Project Management).
7. CIS 151 (Invitation to Computing) for students interested in gaining an overview of the computing discipline. This course should be taken before taking CIS 260. This course can be substituted if a student has CS AP credit or has completed a college level programming course such as CIS 260 or IST 211.
8. At least 46 semester hours must be earned in courses at the 300 level or above.
9. All CIS courses must be passed with a grade of C or better.
10. A total of 128 semester hours

Suggested Program:

Suggested Program of Study for the CIS Major using the CSC Track	
First Semester	**Credits**
ENG 101 English I	3
MTH 181 Calculus I	4
CIS 151 Invitation to Computing [2]	3
Social Diversity [1]	3
Arts and Humanities elective [1]	3
BUS 101 Intro to College Life	1
Total	17
Second Semester	**Credits**
ENG 102 English II	3
MTH 182 Calculus II	4
CIS 260 Intro to Programming	4
Social Science elective [1]	3
Arts and Humanities elective [1]	3
Total	17
Third Semester	**Credits**
PHY 243 University Physics I (W)	5
Nat Sci/Quantitative elective	3
MTH 284 Matrices for Engineers	2
CIS 265 Data Structures and Algorithms	4

Social Science elective [1]	3
Total	17
Fourth Semester	**Credits**
PHY 244 University Physics II	5
Social Diversity [1]	3
Nat Sci/Quantitative elective	3
CIS 340 C/C++ for System Prog	2
CIS 335 Lang Proc.	4
Total	17
Fifth Semester	**Credits**
MTH 220 Disc Math	4
CIS 368 OO Design & Prog	4
CIS 345 Oper. System	4
IST 420 Project Management	4
Total	16
Sixth Semester	**Credits**
MTH 323 Statistical Methods	4
MTH 311 Numerical Methods	4
CIS 424 Comp Prog Lang.	4
CIS Elective[3]	4
Total	16
Seventh Semester	**Credits**
CIS Elective	4
CIS 490 Fnd. of Comp.	3
CIS 480 Intro to Comp. Arch.	4
Writing Elective[3]	4
Total	15

Eighth Semester	Credits
CIS 485 Senior Project	4
CIS Elective	4
CIS Elective	4
CIS Elective	4
Total	16

[1] Students should consult with a college adviser before choosing General Education electives.

[2] CIS 151 can be substituted for any student with either AP (CS) credit, or by completing any college level programming language course such as CIS 260 or IST 211.

Additional Major-Field Requirements

1. In order to declare the CIS major with a CSC track, the student must have completed Calculus I (MTH 181) with a grade of C (2.00) or better, and CIS 260 (Introduction to Programming) with a grade of C+ (2.30) or better. The student must also have an overall grade point average of 2.00 or better.
2. All computer and information science courses must be passed with a grade of "C" or better.
3. Any computer and information science course taken without prior satisfactory completion of all catalog prerequisite courses will not be counted toward fulfillment of graduation requirements.

Minors Offered by Computer and Information Science

On this page:

- Back
- Minor in Computer and Information Science
- Minor in Information Systems
- Go to Computer & Information Science Department website

Minor in Computer and Information Science

Students minoring in Computer and Information Science are required to take a minimum of 16 credits in the Computer and Information Science Department. Eight credits of these are the required courses:

- CIS 260 Introduction to Computer Programming
- CIS 265 Data Structures and Algorithms

The remainder must be drawn from CIS courses at or above the 300 level, with the approval of a CIS faculty adviser.

Minor in Information Systems

Students minoring in Information Systems are required to take a minimum of 16 credits in the Computer and Information Science Department. Six credits of these are the required courses:

- IST 203 Software Tools for Personal Productivity
- IST 211 Fundamentals of System Development

The remainder can be selected from IST courses. CIS courses may *not* be used as electives for the Information Systems minor.

Second Major

Students in the CIS track who choose a concentration in mathematics can, by suitably choosing a few additional electives, complete all mathematics requirements for the bachelor's degree with a major in Mathematics. Also, students in the CSC track, as a result of their additional mathematics requirements, may be able to complete all mathematics requirements for a major in Mathematics by taking a few additional mathematics courses. See your CIS Department adviser and an adviser in the Mathematics Department for further information.

Students in the CIS track who choose a concentration in physics, or students in the CSC track, may be able to complete all physics requirements for the Bachelor of Arts degree with a major in Physics, by suitably choosing electives. Students who wish to receive this additional degree must take MTH 281 in addition to CIS requirements. See your CIS Department adviser and an adviser in the Physics Department for further information.

Monte Ahuja College of Business

Certificate Programs

The Monte Ahuja College of Business offers a certificate program in Global Business. The College also offers three certificate programs in collaboration with other colleges in the university: Arts Management, Multimedia Advertising, and Business Biotechnology. Certificate programs allow students and employees in area businesses to gain knowledge and proficiency in a specialized field by taking specified courses in selected disciplines.

The certificate programs sponsored or co-sponsored by the College of Business Administration are described below.

- Certificate in Global Business
- Certificate in Arts Management
- Certificate in Multimedia Advertising
- Certificate in Business Biotechnology

Monte Ahuja College of Business: Certificate Programs

- Back to College of Business Administration Certificates
- Description
- Requirements
- Go to Art Department
- Go to Creative Writing
- Go to Dance Company
- Go to Marketing Department
- Go to Music Department
- Go to Theater Arts Program

Arts Management (Certificate)

The Certificate in Arts Management bridges the gap between fine arts leadership and business leadership. Basic business skills are provided to supplement fine arts knowledge. This program benefits fine and performing arts majors who are interested in learning about the business aspects of their fields. Admission and advising are provided jointly by the College of Business Administration and the creative or performing arts departments of the College of Liberal Arts and Social Sciences.

Requirements:

Sixteen (16) semester hours of courses in business and fine arts are required to obtain the certificate. The program of study is as follows:

1. Prerequisites:

- ACT 221 Introductory Accounting I
- IST 203 Software Tools for Personal Productivity

Arts Experience —A **minimum** of 15 semester hours of course work or equivalent practical experience in one of the creative/performing arts

2. Required core courses (6 semester hours):

- MKT 301 Fundamentals of Marketing
- MLR 301 Principles of Management

3. Electives (10 semester hours):
Ten hours chosen from any of the following electives, with at least one course chosen from each of the elective areas (Business and Art). The final choice of electives must be approved by an adviser.

Business Electives:

- FIN 351 Introduction to Financial Management
- GAD 250 Business Communication *

- MKT 441 Integrated Marketing Communications
- MLR 340 Human Resource Management
- MLR 443 Entrepreneurship
- OSM 311 Introduction to Operations Management

*GAD courses are administered by the Department of Marketing.

Art Electives:

- ART 405 Museology: Introduction to Museum Studies - Exhibition Planning and Design
- COM 225 Media Writing
- COM 357 Principles of Public Relations
- DRA 381 Theatre Organization and Management
- DRA 490 Professional Theater Internship
- ENG 301 Advanced Expository Writing
- ENG 390 Literary Magazine
- UST 410 Proposal Writing and Program Development

Other elective courses as approved by the various departments.

Note: Several of the courses listed above have prerequisites which must be satisfied in order to take the courses.

For information on specific courses, contact the appropriate department: Art 216-687-2040, Creative Writing 216-687-4522, Dance Company 216-687-4883, Marketing 216-687-4771, Music 216-687-2301, Theater Arts 216-875-9662.

Interested students should obtain a form called the "Arts Management Checklist," available from the Department of Marketing, to track their progress in the program.

Monte Ahuja College of Business: Certificate Programs

- Back to College of Business Administration Certificates
- Description
- Required Courses
- Go to OSM Department website
- Go to Career Services' information on Biotechnology Certificate
- Go to Department of Biological, Geological, and Environmental Sciences

Business Biotechnology (Certificate)

The biotechnology industry has been identified as one of the fastest growing industries in northeastern Ohio. This industry growth demands a trained workforce with a unique skills set.

The specific skills identified as being required by these employers include basic engineering, quality control, laboratory, biochemistry and computer skills.

The certificate program targets students who are working towards or already have a bachelor's degree and want to add coursework that will enable them to focus on the biotechnology field.

The certificate also targets current employees who are retooling to be more competitive, or want to add credentials to their career portfolio.

Required Courses:

The certificate program requires 19-20 semester hours:

- ESC 120 Introduction to Engineering Design
- OSM 445 Quality Control and Management (prerequisite: OSM 201 Business Statistics I)
- MKT 450 Professional Selling and Sales Management
- OSM 413 Production Planning and Control *or* OSM 412 Supply Chain Modeling (prerequisite: OSM 311 Introduction to Operations Management) .
- IME 465 Manufacturing Systems Engineering
- BIO 308/309 Cell Biology and Laboratory (prerequisite: BIO 306 Biochemistry and Molecular Biology)

Monte Ahuja College of Business: Certificate Programs

Global Business (Certificate)

- Back to College of Business Administration Certificates
- Description
- Admission Criteria
- Required Courses
- Go to Department of Marketing

The Undergraduate Certificate in Global Business is designed to prepare business professionals to conduct business in a complex and fast-changing global environment. The certificate program enables undergraduate business students and those already holding an undergraduate business degree to manage complex problems in international trade and management.

This program is administered through the Department of Marketing.

Admission Criteria:

Admission to the Global Business Certificate program is open to the following:

- Current undergraduate students in good academic standing.
- Individuals with a bachelor's degree.

Submission of official transcripts will be required to determine if any prerequisite courses are needed.

Required Courses:

Students who are admitted to the certificate program should have completed INB 301 International Business or an equivalent course in International Business. The certificate program consists of four courses (three required and one elective) for a minimum of 14 credit hours. A minimum of B- grade is required to complete the certificate program.

Curriculum and Credits:

- MKT 461 Global Marketing Strategy (4)
- MLR 487 International Management (3)
- FIN 465 International Finance (4)
- One elective course—select from the following list:
    - IST 461 E-Business (3)
    - ACT 460 International Accounting (3)
    - OSM 425 International Operations Management (3)
    - INB 490 International Business Internship (3)
    - INB 491 International Study Tour (3)
    - INB 492 International Study Abroad (3)
    - INB 493 Special topics (e.g., Export/Import Documentation/Procedures)
    - MKT 440 Marketing Field Experience Abroad (3)

Many of these courses have pre-requisites, for which the permission of the program director is required.

For further information, contact the Department of Marketing, 216-687-4771.

Monte Ahuja College of Business: Certificate Programs

Multimedia Advertising (Certificate)

- Back to College of Business Administration Certificates
- Description
- Required Courses
- Go to Art Department
- Go to School of Communication
- Go to Department of Marketing

This interdisciplinary program is offered jointly by the Department of Marketing in the Monte Ahuja College of Business and the Department of Art and the School of Communication in the College of Liberal Arts and Social Sciences. The program provides students with a breadth of information and practical know-how in marketing strategy, advertising communication, graphics, copywriting, and design. It introduces contemporary advertising theories and practices by integrating traditional media, such as print and broadcasting, with new media, such as computer graphics and the Internet.

Required Courses:

The certificate program includes 16 semester hours of core courses in visual art, advertising principles, advertising applications, and marketing analysis. A 2.25 GPA must be maintained across all required courses. The following courses are prerequisites to those required for the certificate.

Prerequisites:

- ART 102 Introduction to 2-D Art and Design
- ART 242 Introduction to Typographic Principles and Design
- MKT 301 Fundamentals of Marketing

NOTE: COM 350 Persuasive Communication and Attitude Change is recommended as a foundation for the COM courses in this certificate program.

Required Core Courses:

- ART 244 Introduction to Macintosh
- COM 360 Principles of Advertising OR
  MKT 441 Integrated Marketing Communications
- COM 450 Media Programming and Research OR
  COM 455 Communication Campaigns OR
  COM 460 Advertising Copywriting and Layout Design
- MKT 420 Consumer Behavior OR
  MKT 431 Marketing Research

Recommended Electives:

- ART 344 Advanced Raster-Image Development
- ART 345 Advanced Vector-Image Development

- ART 444 Advanced Typography and Design
- ART 445 Introduction to Digital Media
- COM 204 Single-Source Video/Audio Production and Editing
- COM 352 Multi-Source Video Production
- COM 357 Principles of Public Relations
- COM 358 Media Law, Economics, and Ethics
- COM 370 Communication Technology and Social Change
- MKT 450 Selling and Sales Force Management
- MKT 454 Online Marketing Strategies

For more information, please contact the appropriate department: Art Department 216-687-2040, School of Communication 216-687-4630, or Department of Marketing 216-687-4771.

College of Education & Human Services

On this page:

- Introduction
- Bachelor of Science in Education Degree and Teaching Licensure
- General Requirements
  - Admission Requirements
  - Acceptance into Teaching Licensure or Allied Sports Professions
- Title II Report Card
  - Praxis II Pass-Rate Data: Initial Teacher Preparation Program
- Bachelor of Science in Education Program
  - Early Childhood Education (Early Childhood Licensure)
  - Middle Childhood Education (Middle Childhood Licensure)
  - Physical Education (Multi-Age Physical Education Licensure)
  - Special Education (Mild/Moderate and Moderate/Intensive Needs Licensure)
  - Allied Sport Professions (Sport Manager and Exercise/Fitness Specialist)
- Multi-Age Licensure
  - Physical Education Licensure
  - Health Education Licensure
  - Foreign Language Education Licensure (French or Spanish)
  - Music Education Licensure
  - Visual Arts Education Licensure
- Adolescent and Young Adult Licensure (Secondary Education)
- Upper Division Honors Program - Teaching Licensure
- Licensure Programs for Post- Baccalaureates
  - Early Childhood Licensure
  - Middle Childhood Licensure
  - Adolescent/Young Adult or Multi-Age Licensure
- Endorsement Programs
- Certificates
  - TESOL
- Minors
  - Health Education
  - Sport Management
- Go to College of Education and Human Services website

Introduction

The College of Education and Human Services offers a variety of baccalaureate programs for men and women who desire to serve as teachers, health educators, sport managers, or exercise/fitness specialists. The college also offers graduate programs for the advancement and enrichment of persons active in education and other human service professions.

Website: www.csuohio.edu/cehs

Bachelor of Science in Education Degree and Teaching Licensure

The faculty of the College of Education and Human Services confers the Bachelor of Science in Education degree with majors in Early Childhood Education, Middle Childhood Education, Physical Education, Special Education, and Allied Sports Professions (Exercise/Fitness Specialist or Sport Manager). In addition, undergraduate students and post-baccalaureates may earn State of Ohio Teaching Licenses in early childhood

(grades Prek-3), middle childhood (grades 4-9), physical education (grades Prek-12), special education (grades K-12 in mild/moderate or moderate/intensive educational needs), adolescent/young adult (grades 7-12 in a variety of content areas), visual arts (grades Prek-12), music (grades Prek-12), and foreign language (grades Prek-12 in French or Spanish).

The college's conceptual model for teacher education is "The Teacher as a Responsive, Reflective Professional: A Partner in Learning." Graduates of Cleveland State University's teacher education programs are known for distinctive abilities that reflect the four knowledge bases that serve as a foundation for this model: professionalism, partnership, inquiry, and contextualism.

At-a-Glance

Degree granted: Bachelor of Science in Education

Endorsements: Teacher licensure

Minimum hours for degree: 125 semester hours

Minimum hours for minor: 32 semester hours (applies only to those undergraduate students seeking adolescent/young adult licensure)

Admission to professional education course work: 2.50 cumulative grade-point average with completion of at least 30 undergraduate credit hours; grade of C or better on college-level English composition course; grade of C or better on college-level math course; intake interview with Education Student Services Center.

Financial assistance: Incentive grants; Teacher Scholarship program (details are available in the College Advising Office, Education Building 107A.)

Awards: Golden Apple for Academic Excellence, Award for Exceptional Achievement, and Outstanding Performance for Student Teaching. The Department of Health, Physical Education, Recreation and Dance confers Major of the Year, Academic Achievement, and the Jane Pease Service Awards.

Central advising office: Education Student Services Center, Julka Hall 170A; 216-687-4625

General Requirements

- Admission to the College
- Acceptance into Teaching Licensure or Allied Sports Professions

Admission to the College

Undergraduate students planning to major in Early Childhood Education, Middle Childhood Education, Physical Education, Special Education, Exercise/Fitness Specialist, and Sport Manager must be admitted to the College of Education and Human Services. A student should apply for admission to the college at least one semester in advance of the start of course work in the major. A cumulative grade-point average of at least 2.50 is required for admission.

Undergraduate students seeking a teaching license in Adolescent/Young Adult, Visual Arts, Music, French, or Spanish should seek admission to the College of Science or the College of Liberal Arts and Social Sciences. These students, except for those in music, must declare a minor in education.

College graduates seeking a teaching license as a post-baccalaureate student must gain admission to the university through the Undergraduate Admissions Office and then to the College of Education and Human Services through the Education Student Services Center, Julka Hall 170A. These individuals must also have a cumulative grade-point average of at least 2.50 and meet requirements listed below for acceptance into a teacher license program.

Acceptance into Teaching Licensure or Allied Sports Professions

- Undergraduate Students
- Professional Standards
- Course Load
- Student Teaching
- Portfolio
- PRAXIS II
- Teaching Licensure Application
- Entry-Year Program
- Student Responsibility

Undergraduate or post-baccalaureate students must meet certain requirements to be accepted into a licensure or allied sports professions program and be eligible for professional course work at the 300 level and above. These requirements are as follows:

Undergraduate Students

Students planning to major in Early Childhood Education, Middle Childhood Education, Special Education (Mild/Moderate or Moderate/intensive), or Physical Education must be admitted to the College of Education and Human Services. A student should apply for admission to the College of Education and Human Services at least one semester in advance of desired entrance. In addition, students are required to meet certain standards and requirements of the college to be fully accepted into a licensure program and prior to registering for professional course work in education beyond EDB 200 (Teaching as a Profession). These standards and requirements are as follows:

1. The student must have an overall grade-point average of 2.50 or better at the time of enrollment in professional education courses with the exception of EDB 200. All course work taken at other institutions is counted in calculating this grade-point average until the student has completed 12 or more credit hours at Cleveland State University, after which only the Cleveland State grade-point average is considered.
2. The student must have completed or be in the process of completing 30 semester hours of college-level course work.
3. The student must demonstrate proficiency in writing by earning a grade of C or higher in a college-level English composition course.
4. The student must demonstrate proficiency in mathematics by earning a grade of C or higher in a college-level mathematics course.
5. The student must satisfactorily complete an intake interview with an adviser in the Education Student Services Center, Julka Hall 170A, or, in the case of Physical Education, or Allied Sports Professions, with the coordinator of Undergraduate Student Services in the Julka Hall164. (Requirements 1-4 above must be met prior to the intake interview.)
6. The student must sign a Verification of Good Moral Character Form in the presence of the intake interview adviser (not required for Allied Sports Professionals).

Professional Standards

All students enrolled in degree and/or licensure programs in the College of Education and Human Services must meet the following standards:

1. All students must achieve a cumulative Cleveland State University grade-point average of at least 2.50
2. All students must maintain a grade-point average of at least 2.75 for professional course work in education. No grades of D or F will be accepted. No grade lower than B will be accepted in the practicum experience. Professional course work may be repeated with the approval of the Education Student Services Center.
3. All students seeking licensure in Physical Education, Music, Visual Arts, Foreign Language, Middle Childhood, or Adolescent/Young Adult areas must achieve a grade-point average of at least 2.50 in all content area course work required for licensure as identified on the program checklist..
4. Students are urged to participate extensively in school and community service as part of their professional preparation. Each student will have opportunities for field experience within the context of a number of professional courses required by the college. However, students also are encouraged to participate in voluntary group leadership activities in community agencies. Assistance in locating such opportunities is provided by the college.

Course Load

The normal course load is 16 hours. Students may carry a maximum of 19 hours per semester, but they are advised to do so only rarely, when there is clear academic justification. Students who wish to take an overload (20 hours) must obtain an overload form approved by adviser.

Student Teaching Internship

The student teaching internship, required of all students being recommended for licensure by Cleveland State University, is open to those students who meet the requirements specified by the College of Education and Human Services. In addition to those professional standards and the grade-point average requirements listed above, the following must be completed prior to approval to student teach:

1. Starting in Summer 2006, a student must provide evidence of having taken all required Praxis II examinations prior to the start of the student teaching experience. In addition a student in French or Spanish must also demonstrate oral and written proficiency at the ACTFL "Intermediate/High " level.
2. Through work presented in a Professional Portfolio, a student must demonstrate competence levels of at least Emerging on all 12 program outcomes and Proficient in at least 8 of these, including #2 - Social Foundations, #3 - Knowledge of Subject Matter and Inquiry, #4 - Knowledge of Development and Learning, #8 - Instructional Strategies, and #10 - Technology.
3. A student must submit a negative TB (tuberculosis) test report (Mantoux version).
4. A student in Early Childhood, Physical Education, Mild/Moderate, or Moderate/Intensive must submit verification of having completed a series of three Hepatitis B shots.
5. A student must complete a civilian background check (fingerprint check) and submit a copy of a Clearance Reports from the Bureau of Criminal Identification and Investigation (BCI) and the Federal Bureau of Investigation (FBI).
6. An undergraduate student must be enrolled in the appropriate college and must have declared the appropriate major and/or minor (students in Adolescent/Young Adult programs, Music, Visual Arts, and Foreign-Language Education should be enrolled in the College of Science or the College of Liberal Arts and Social Sciences and, except for Music, should declare minors in Education. Post-baccalaureate students should be enrolled in the College of Education and Human Services).
7. Application for the student teaching internship must be filed by September 15 (for spring placement) or February 15 (for fall placement).

8. At least two semesters of academic work must be completed in the College of Education and Human Services before a student is eligible for the student teaching internship.
9. A student must have completed a minimum of 100 credit hours prior to the student teaching internship. All required professional education courses and at least 75% of all content area courses required for licensure must be completed prior to student teaching.

Additional information about all standards and requirements is available in the Education Student Services Center, Julka Hall 170A.

Note: Students in those programs requiring a practicum experience must complete requirements 3 through 6 above before the start of the practicum experience in addition to all specified prerequisite course work. Application for practicum must be filed by September 15 (for spring placement) or February 15 (for fall placement).

Note: A student may not repeat the student teaching internship without approval of the Petitions Committee of the College. For information about this procedure, visit the Education Student Services Center, Julka Hall 170A.

Portfolio

All teaching licensure students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the following12 outcomes or standards:

1. **Personal Philosophy.** The Cleveland State teacher education student articulates a personal philosophy of teaching and learning that is grounded in theory and practice.
2. **Social Foundations.** The Cleveland State teacher education student possesses knowledge and understanding of the social, political, and economic factors that influence education and shape the worlds in which we live.
3. **Knowledge of Subject Matter and Inquiry.** The Cleveland State teacher education student understands content, disciplinary concepts, and tools of inquiry related to the development of an educated person.
4. **Knowledge of Development and Learning.** The Cleveland State teacher education student understands how individuals learn and develop and that students enter the learning setting with prior experiences that give meaning to the construction of new knowledge.
5. **Diversity.** The Cleveland State teacher education student understands how individuals differ in their backgrounds and approaches to learning and incorporates and accounts for such diversity in teaching and learning.
6. **Learning Environment.** The Cleveland State teacher education student uses an understanding of individual and group motivation to promote positive social interaction, active engagement in learning, and self-motivation.
7. **Communication.** The Cleveland State teacher education student uses knowledge of effective verbal, nonverbal, and media communication techniques to foster inquiry, collaboration, and engagement in learning environments.
8. **Instructional Strategies.** The Cleveland State teacher education student plans and implements a variety of developmentally appropriate instructional strategies to develop performance skills, critical thinking, and problem solving, as well as to foster social, emotional, creative, and physical development.
9. **Assessment.** The Cleveland State teacher education student understands, selects, and uses a range of assessment strategies to foster physical, cognitive, social, and emotional development of learners and gives accounts of students' learning to the outside world.
10. **Technology.** The Cleveland State teacher education student understands and uses up-to-date technology to enhance the learning environment across the full range of learner needs.

11. **Professional Development.** The Cleveland State teacher education student is a reflective practitioner who evaluates his/her interactions with others (e.g., learners, parents/guardians, colleagues and professionals in the community) and seeks opportunities to grow professionally.
12. **Collaboration and Professionalism.** The Cleveland State teacher education student fosters relationships with colleagues, parents/guardians, community agencies, and colleges/universities to support students' growth and well-being.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at:

http://www.csuohio.edu/cehs/students/portfolios/

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

PRAXIS II

All students are required to pass PRAXIS II examinations in at least two areas: Principles of Learning and Teaching (EC, K-6, or 5-9, or 7-12) and Specialty Area Tests. Students should refer to the undergraduate checklist to determine which examinations are required for their licensure area. Minimum scores are set by the Ohio Department of Education. Approval for teaching licensure cannot be given if the student fails to meet the cut-off score in any of these areas. If the cut-off score is not achieved, , each test may be repeated until a passing grade is achieved. Pertinent information is available in the Office of Testing Services, RT 1235, in the Education Student Services Center, or on the Web at www.ets.org/praxis.

Teaching Licensure Application

Students apply for licensure through the Education Student Services Center. Application forms are distributed and explained during orientation to student teaching. Additional forms are available in Julka Hall 170A.

Entry Year Program

Students completing all requirements for initial teaching license receive a State of Ohio Resident Educator License good for four years. These individuals will be granted a Professional Teaching License License upon successful completion of a Resident Educator Program as a teacher. The Resident Educator Program includes a formal program of support, mentoring, and assessment designed to foster professional growth. Complete information on this process is available in the Education Student Services Center, Julka Hall 170A.

Student Responsibility

Each student is responsible for meeting the curricular requirements and following the academic regulations of the college and university. No university official can relieve the student of that responsibility. Petitions for exceptions to regulations or requirements may be approved only by an appropriate faculty committee. Petition forms may be obtained from the Education Student Services Center, Julka Hall 170A, 216-687-4625.

Title II Report Card

All institutions of higher education which prepare teachers must make a public report each year of important aspects of their programs, including the PRAXIS II examination passage rates for the students who complete teacher preparation programs at their institutions. The following tables summarize these passage rates for the most current reporting year.

2009-2010 Praxis II Pass-Rate Data: Initial Teacher Preparation Programs

Testing Period: ***9/09-8/10*** Number of Program Completers: 235

Type of Assessment	# Takin Praxis II at CSU	# Passing Praxis II at CSU	CSU Pass Rate[1]	OH Passing Score[2]	**Ohio Pass Rate**		
					# Took	# Passed	% Passed
Professional Knowledge							
Principles of Lrng & Teaching Early Child.	56	54	96%	166	1861	1843	99%
Principles of Lrng & Teaching K-6	30	29	97%	168	422	402	95%
Principles of Lrng & Teaching 5-9	30	23	77%	168	1199	1141	95%
Principles of Lrng & Teaching 7-12	117	108	92%	165	2219	2170	98%
Content Areas and Teaching Special Populations							
Art - Content Knowledge	13	12	92%	157	206	201	98%
Biology & General Science	3			560	30	30	100%
Biology Content Knowledge	6			148	122	118	97%
Chemistry – Content Knowledge	2			152	43	38	88%
Chemistry, Physics and Gen. Science	0			520	20	17	85%
Education of Young Children	49	48	98%	166	1674	1664	99%
Earth Science - Content Knowledge	2			151	41	39	95%
English Lang., Lit. and Comp.	20	18	90%	167	448	426	95%
French - Content Knowledge	0			160	8		
Mathematics – Content Knowledge	8			139	252	246	98%
Middle School English Language Arts	12	10	83%	156	518	504	97%
Middle School Mathematics	11	10	91%	143	596	595	100%
Middle School Social Studies	14	13	93%	151	534	515	96%
Middle School Science	13	11	85%	144	478	468	98%
Music - Content Knowledge	4			154	251	247	98%
Physical Educ. – Content Knowledge	9			153	164	159	97%
Physics - Content Knowledge	1			132	21	21	100%

Social Studies – Content Knowledge	23	22	96%	157	459	445	97%
Spanish - Content Knowledge	6			160	86	84	98%
Special Ed – Knowledge-based Core	7			151	38	36	95%
Education Exceptional Students	55	53	96%	160	885	868	98%
Summary Total and Pass Rate[3]	235	210	89%		5803	5576	96%

[1]No pass rate percentage is calculated when fewer than 10 teacher candidates take the Praxis II test.

[2]Ohio Passing Scores that are over 200 are for older versions of the Praxis II test in that area.

[3]The Summary Total is the total number of different individuals who took one or more tests listed. The Summary Pass Rate is the percentage of this total that passed ALL of the tests taken.

ACTFL Pass Rate-Data: Academic Year 2009-10

Testing Period*:* ***9/09-8/10*** Requirement Instituted September 1, 2010

Type of Assessment	**# Taking Praxis II at CSU**	**# Passing Praxis II at CSU**	**CSU Pass Rate[2]**	**OH Passing Score[2]**	**Ohio Pass Rate**		
					# Took	# Passed	% Passed[2]
Oral Proficiency Interview (OPI)							
Mandarin	2			6	2		
Spanish	0			6	4		
Writing Proficiency Test (WPT)							
Chinese	2			6	2		
Spanish	0			6	3		

[1]The ACTFL OPI and WPT replace Praxis II Content Area Examinations for Foreign Languages.

[2]No pass rate percentage is calculated when fewer than 10 teacher candidates take an ACTFL test.

Bachelor of Science in Education (B.S. in Ed.)

- Back to College
- Introduction
- Degree and Licensure Requirements
- General Education Requirements
- Majors
    - Early Childhood Education (Early Childhood Licensure)
    - Middle Childhood Education (Middle Childhood Licensure)
    - Physical Education (Multi-Age Physical Education Licensure)
    - Special Education (Mild/Moderate and Moderate/Intensive Needs Licensure)
    - Allied Sports Professions
- Licensure Programs
    - Early Childhood
    - Middle Childhood
    - Multi-Age Programs (Physical Education, Health Education, Foreign Language Education (French or Spanish), Music Education, Visual Arts Education)
    - Special Education (Mild/Moderate and Moderate/Intensive Needs Licensure)
    - Adolescent and Young Adult Licensure

    - Upper Division Honors Program - Teaching Licensure
    - (College Graduates: see Post-Baccalaureate Teacher Education Programs)
    - (Practicing Teachers: see Endorsement Programs)
- Go to College of Education & Human Services website

Introduction

The Bachelor of Science in Education degree is conferred upon students who complete college requirements in the following major fields: Early Childhood Education, Middle Childhood Education, Physical Education, Special Education (Mild /Moderate or Moderate/Severe educational needs), or Allied Sports Professions (Exercise Fitness Specialist or Sports Manager).

Degree and Licensure Requirements

In addition to meeting the university requirements for the baccalaureate degree (see the section on Common Requirements in the chapter on University Regulations), candidates for the degree of Bachelor of Science in Education and teacher licensure must meet the following requirements of the college:

1. Maintenance of at least a 2.50 cumulative grade-point average.
2. Maintenance of at least a 2.75 grade-point average in professional course work.
3. At least a 2.50 grade-point average in all content area course work required for licensure as identified on the undergraduate checklist. (Applies to those in Adolescent/Young Adult Teaching Areas, Middle Childhood, Physical Education, Visual Arts, Music, and Allied Sports Professions.)
4. Successful completion of student teaching and taking of all required Praxis II examinations. (Applies to those in teacher licensure.) Note: All required Praxis II examinations must be passed before a candidate's teaching license application will be endorsed by Cleveland State University.
5. Completion of between 125 and 137 semester hours of course work.
6. Achievement of at least the Proficient level on all 12 initial teaching license outcomes as demonstrated through artifacts presented in a Professional Portfolio. (As of Fall 2007, all students entering teacher

license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.)

General Education Requirements

(Minimum of 41 credit hours)

The General Education Requirements for all B.S. Ed. programs meet those established by the Cleveland State University Curriculum Committee and approved by University Faculty Senate. New requirements are in effect as of Fall 2008. General Education Requirements for programs in the College of Education and Human Services are found with the program descriptions and requirements which follow this section. All students should consult program checklists in the College of Education and Human Services Advising Office (Education Building 107A) for up-to-date General Education Requirements. Students entering the university as first-year students must enroll in the Introduction to University Life (ASC 101) course.

Early Childhood Education

On this page:

- Back to BS Education
- At-a-Glance
- Major Requirements
- ECE Courses
- College Graduates see Post-Baccalaureate program information
- Go to Department of Teacher Education website

Early Childhood Education (B.S. in Ed.)
At-a-Glance

Degree Granted: Bachelor of Science in Education

Minimum Hours Required for Degree: 133 to 146 semester hours

Teaching Credential: Ohio four-year Resident Educator teaching license in early childhood (ages 3 to 8 and grades pre K-3, including children with mild/moderate disabilities). Requires successful completion of all program requirements and acceptable scores on applicable PRAXIS II examinations as mandated by the State Board of Education.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Accreditation: Having met current curriculum guidelines set by the National Association for the Education of Young Children, the Early Childhood Education Program is accredited by the National Council for Accreditation of Teacher Education.

Admission to Major: Must be admitted to the College of Education and Human Services (requires 2.50 cumulative grade-point average). Must also be accepted into a College of Education and Human Services program. This requires 2.50 cumulative grade-point average, grade of C or better on college-level English composition course, grade of C or better on college-level math course, an intake interview, and verification of good moral character.

Advising: Admission and program guidelines may be secured from the Education Student Services Center, Julka Hall 170A, 216-687-4625. Continuing academic, personal, and professional advising is available from assigned faculty advisers and the College Advising Office.

Evening Program: Classes that do not require field work are frequently offered in the evenings; some are offered during the day. Students must be available for field placements in area schools during the day.

Department Office: Teacher Education; Julka Hall 302A, 216-687-4600.

The Early Childhood Education Program prepares candidates for teaching children from ages 3 to 8 (pre K - grade 3), including typically developing youngsters and those with mild and moderate disabilities. Taken as a whole, the curriculum focuses on the development of teaching and learning practices associated with high-quality early childhood education for young children representing diverse cultures and abilities. These practices respect all children and provide them with equal opportunity to develop emotionally, socially, morally, physically, intellectually, and aesthetically and to extend their learning in all content areas. The development of professional knowledge and skills is aided by reflective practice and inquiry. To that end, the observation of children and early childhood settings accompanies relevant study, is followed by on-site practice, and culminates in supervised student teaching.

Major-Field Requirements

Required Courses:

A. General Education and Prerequisite Requirements (45-58 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the University GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

Basic Foundation

1. **Intro to University Life** (if required)
   - One course selected from approved list (1 hour)
2. **Writing/Composition**
   - ENG 101 College Writing I (3 hours)
   - ENG 102 College Writing II (3 hours)
3. **Mathematics and Quantitative Literacy**
   - MTH 127 Mathematics for Elementary and Middle School Teachers I (4 hours)
   - MTH 128 Mathematics for Elementary and Middle School Teachers II (4 hours)
   - MTH 129 Mathematics for Elementary and Middle School Teachers III (2 hours)

Breadth of Knowledge

4. **Natural Sciences**
   - Natural Science course selected from approved list with corresponding lab (4 hours) (e.g. BIO 106/107 or GEO 100/101)
   - Second Natural Science course selected from approved list (3 hours) (e.g., EVS 206, SCI 220, UST 289)
5. **Social Sciences**
   - Social Science course selected from approved list (3 hours)
   - Second Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
6. **Arts and Humanities**
   - ART 252 Introduction to Early Western Art *or*
     ART 253 Introduction to Western Art Since 1400 (4 hours)
   - Second Arts and Humanities course selected from approved list, from department other than HPERD and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)

7. **Social Diversity**
    - EDC 300 Diversity in Educational Settings (3 hours)
    - African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
    - The three-course Writing-Across-the-Curriculum requirements will be met by program requirements, including EDB 301, EDB 302, ECE 300, EDL 301, and EDL 312
9. **Capstone Experience**
    - (Check with Teacher Education Department for course requirement)
10. **Wellness**
    - HED 210 Personal Health (3 hours taken as part of major)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B. Professional Education Requirements (13 hours)

Core course work in education and related professional experiences are included in this area for a total of 13 hours. Where applicable, all prerequisites must be met prior to enrollment in these courses. In addition, EDB 301 and EDB 302 must be taken concurrently. The professional education foundation courses must be completed first in the education sequence as they are prerequisites for many of the remaining Professional Education courses.

Foundations

- EDB 200 Teaching as a Profession (2 hours)
- EDB 300 Educational Technology (2 hours)
- EDB 301 Social Foundations of Education (3 hours)
- EDB 302 Psychological Foundations of Education (3 hours)
- ECE 300 Introduction to Early Childhood Education (3 hours)

C. Concentration Requirements (62 hours)

Specialized course work in early childhood education and related professional experiences are included in the following areas for a total of 62 hours. Because certain courses in this sequence must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the College Advising Office (EB 107A) before registering for classes.

Curriculum and Methods

- ECE 401 Developmental Curriculum for Early Childhood Education (4 hours)
- ECE 402 Teaching Methods in Early Childhood Education (4 hours)
- ECE 403 Teaching Young Children with Mild and Moderate Disabilities (3 hours)

Literacy

- EDL 300 Phonics Assessment and Instruction (3 hours)
- EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
- EDL 311 Emergent Literacy (3 hours)
- EDL 312 Literature-Based Reading Methods for Children (3 hours)

Special Methods

- ESE 415 Assessing Young Children (4 hours)
- ECE 412 Collaboration with Families and Professionals in Early Childhood Settings (4 hours)
- ECE 415 Mathematics Instruction in Preschool and the Primary Grades (3 hours)
- ECE 416 Social Studies Instruction in Preschool and the Primary Grades (3 hours)
- ECE 417 Science Instruction in Preschool and the Primary Grades (3 hours)
- EDC 309 Art Methods for the Classroom Teacher (2 hours)
- MUS 301 Music Fundamentals and Methods for the Classroom Teacher (4 hours)
- PED 316 Health and Physical Education for the Classroom Teacher (3 hours)

D. Culminating Experiences (13 hours)

- EST 370 Practicum in Early Childhood Education (3 hours)
- EST 480 Student Teaching in Early Childhood Education (10 hours)

Middle Childhood Education

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- At-a-Glance
- Major Requirements
- EDM Courses
- College Graduates see Post-Baccalaureate program information
- Go to Department of Teacher Education website

Middle Childhood Education (B.S. in Ed.)
At-a-Glance

Degree Granted: Bachelor of Science in Education

Specialization Options: The undergraduate licensure program in middle childhood education provides for discipline-specific preparation in two to four content areas: language arts, mathematics, science, or social studies. The program is designed to provide undergraduates with formal course work in education for teaching adolescents ages 9-14 (grades 4 to 9). In addition to needed course work, a recommendation for Student Teaching requires taking PRAXIS examinations, with provisional licensure requiring the successful *completion* of any applicable PRAXIS examinations as mandated by the State Board of Education.

Minimum Hours Required for Degree: 128 to 154 semester hours

Teaching Credential: Ohio four-year Resident Educator teaching license in Middle Childhood (ages 9 to 14 and grades 4 to 9).

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Accreditation: Having met current curriculum guidelines set by the National Middle School Association, the Middle Childhood Education Program is accredited by the National Council for Accreditation of Teacher Education.

Admission to Major: Must be admitted to the College of Education and Human Services (requires 2.50 cumulative grade-point average). Must also be accepted into a College of Education and Human Services program. This requires 2.50 cumulative grade-point average, grade of C or better on college-level English composition course, grade of C or better on college-level math course, an intake interview, and verification of good moral character.

Advising: Admission and program guidelines may be secured from the Education Student Services Center, Julka Hall 170A, 216-687-4625. Continuing academic, personal, and professional advising is available from assigned faculty advisers.

Evening Program: There is no evening program since students must be available for field placements in area schools during the day. However, those classes that do not require fieldwork are frequently offered in the evenings.

Department Office: Teacher Education; Julka Hall 302A, 216-687-4600.

The Middle Childhood Education Program is intended to prepare candidates for teaching children from ages 9 to 14. Taken as a whole, the curriculum focuses on the nature and needs of early adolescents as they particularly relate to the design, delivery, and evaluation of culturally and developmentally responsive instruction. Throughout the program, the acquisition of professional knowledge and skills is aided by reflective practice and inquiry. To that end, the observation of middle- and junior-high school students and settings accompanies relevant study, is followed by on-site practice, and culminates in supervised student teaching. As previously noted, the program provides for concentrated study in at least two teaching fields.

Major-Field Requirements

Required Courses:

A. General Education and Prerequisite Requirements (41-56 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the University GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

1. Basic Foundation
    1. **Intro to University Life** (if required)
        - ASC 101 Introduction to University Life (1 hour)
    2. **Writing/Composition**
        - ENG 101 College Writing I (4 hours)
        - ENG 102 College Writing II (3 hours)
    3. **Mathematics and Quantitative Literacy**
        - If Mathematics is selected as a Middle Childhood content concentration
            - MTH 327 Algebra and Functions for Middle School (4 hours)
            - MTH 329 Data Analysis and Probability for Middle School Teachers III (4 hours)
        - If Mathematics is NOT selected as a Middle Childhood content concentration
            - MTH 116 Foundations of Quantitative Literacy (4 hours)
            - MTH 117 Mathematical Applications in the Real World (4 hours)

    Breadth of Knowledge

    4. **Natural Sciences**
        - If Science is selected as a Middle Childhood content concentration
            - (Check with Teacher Education Department for required courses)
        - If Science is NOT selected as a Middle Childhood content concentration
            - EVS 206 Introduction to Environmental Science (4 hours)
            - Second Natural Science course selected from approved list and including a lab (4-5 hours)
    5. **Social Sciences**

- If Social Studies is selected as a Middle Childhood content concentration
  - (Check with Teacher Education Department for required courses)
- If Social Studies is NOT selected as a Middle Childhood content concentration
  - PSY 221 Adolescent Psychology (3 hours)
  - Second Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)

6. **Arts and Humanities**
   - If Language Arts is selected as a Middle Childhood content concentration
     - (Check with Teacher Education Department for required courses)
   - If Language Arts is NOT selected as a Middle Childhood content concentration
     - Arts and Humanities course selected from approved list (3 hours)
     - Second Arts and Humanities course selected from approved list, from department other than HPERD and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
7. **Social Diversity**
   - EDC 300 Diversity in Educational Settings (3 hours)
   - African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
   - The three-course Writing-Across-the-Curriculum requirement will be met by program requirements, including EDB 301, EDB 302, EDM 313
9. **Capstone Experience**
   - (Check with Teacher Education Department for course requirement)
10. **Wellness**
    - HPR 101 Wellness as a Lifestyle (1 hour)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B. Professional Education Requirements (44 hours)

Core course work in education and related professional experiences are included in this area for a total of 44 hours. Because certain courses in this sequence must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the Education Student Services Center (JH 170A) before registering for classes.

1. **Group A — Foundations**
   - EDB 200 Teaching as a Profession (2 hours)
   - EDB 300 Educational Technology (2 hours)
   - EDB 301 Social Foundations of Education (3 hours)
   - EDB 302 Psychological Foundations of Education (3 hours)
2. **Group B — Literacy**
   - EDL 300 Phonics Assessment and Instruction (3 hours)
   - EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
   - EDL 305 Content Area Literacy (3 hours)
   - EDL 313 Literature-Based Reading Methods for Adolescents (3 hours)
3. **Group C — Curriculum & Methods**
   - EDB 303 History and Philosophy of Middle School: Teaching and Management in Context (4 hours)
   - ESE 404 Teaching Students of Varying Abilities (3 hours)

4. **Group D — Culminating Experiences**
    - EDB 400 Classroom Assessment (2 hours)
    - EST 371 Practicum in Middle Childhood Education (3 hours to be taken concurrently with two of the following content area methods courses: EDM 313, EDM 315, EDM 316, or EDM 317)

EST 481 Student Teaching in Middle Childhood Education (10 hours)

C. Licensure/Concentration Requirements (35-54 hours)

Concentrated course work in at least two teaching fields is included in this area for a total of 35 to 54 hours. Eligibility for enrollment in these courses demands the prior completion of any prerequisites.

1. **Language Arts**
   (19 to 20 hours)
    - COM 225 Media Writing *or* ENG 304 Creative Writing for Teachers (4 hours)
    - COM 242 Public and Professional Speaking *or* DRA 225 Principles of Acting (3 to 4 hours)
    - ENG 206 Literature and American Culture *or* ENG 342 Survey of American Literature (4 hours)
    - ENG 310 Traditional Grammar *or* ENG 311 Elements of Linguistics (4 hours)
    - EDM 313 Teaching and Assessing Language Arts in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)
2. **Mathematics (16 hours)**
    - MTH 326 Numbers, Patterns and Operations for Middle School Teachers (4 hours)
    - MTH 327 Algebra and Functions for Middle School Teachers (4 hours)
    - MTH 330 Conversational Calculus for Middle School Teachers (4 hours)
    - EDM 315 Teaching and Assessing Mathematics in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)
3. **Science (24 hours)**
    - BIO 380 Biology Content for Middle School Teachers (5 hours)
    - CHM 380 Principles of Chemistry for Middle School Teachers (5 hours)
    - EVS 380 Earth System Science for Middle School Teachers (5 hours)
    - PHY 400 Conceptual Physics for Middle School Teachers (4 hours)
    - EDM 317 Teaching and Assessing Science in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)
4. **Social Studies (30 hours)**
    - ECN 201 Principles of Macroeconomics (3 hours)
    - ECN 202 Principles of Microeconomics (3 hours)
    - HIS 200 Introduction to Geography (4 hours)
    - HIS 111 United States History to 1877 (4 hours)
    - HIS 112 United States History since 1877 (4 hours)
    - HIS 306 History of Ohio *or* HIS 400 Local History Seminar (4 hours)
    - PSC 221 Comparative Politics *or* PSC 231 International Politics (4 hours)
    - EDM 316 Teaching and Assessing Social Studies in the Middle School (4 hours to be taken concurrently with EST 371 Practicum)

Physical Education and Sport

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- Introduction to Major
  - Requirements
    - Multi-Age Physical Education Teaching Licensure
    - Allied Sport Professions
- PES Courses
- Go to HPERD Department

Physical Education and Sport (B.S. in Ed.)
At-a-Glance

Degree granted: Bachelor of Science in Education

Specialization Options: Multi-Age Physical Education Teaching License; Allied Sport Professions (Exercise/Fitness Specialist *or* Sport Manager)

Minimum hours required for degree: Multi-Age Licensure: 120 to 135 semester hours; Allied Sport Professions: 120 to 130 semester hours. Note: A grade of C or better must be earned in required major-field courses.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Admission to Major: Must be admitted to the College of Education and Human Services (requires 2.50 cumulative grade-point average). Must also be accepted into a College of Education and Human Services program. This requires 2.50 cumulative grade-point average; a grade of C or better on college-level English composition course; grade of C or better on college-level math course; an intake interview with the HPERD Department coordinator of Student Services; and verification of good moral character.

Advising: Admission and program guidelines may be secured from the HPERD Department Office, Julka Hall 164, 216-687-4870, or the Education Student Services Center, Julka Hall 170A, 216-687-4625. Continuing academic, personal, and professional advising is available from assigned faculty advisers.

Student organization: PESO (Physical Education Student Organization)

Additional information: Departmental awards available to students include Jane Pease Service Award, Academic Achievement Award, and Major of the Year Award. An internship experience is part of the Allied Sport Professions program.

Introduction

The Department of Health, Physical Education, Recreation, and Dance offers a major in Physical Education and Sport, with two main options. The first option, Multi-Age Teaching Licensure (between 120 and 135 hours), leads to an Ohio Teaching License in Physical Education (Grades Pre-K through 12). The second option, Allied Sport Professions (between 120 and 130 hours), is to prepare for a career as exercise/fitness specialist **or** sport manager.

The department also offers a post-graduate licensure program in physical education and a multi-age licensure program in health education as a second teaching area. Program minors are available in Dance, Health Education, and Sport Management. Completion of an approved program minor is noted on the student's official transcript.

Visit the HPERD Department office, Physical Education Building Room 228, for specific information or telephone 216-687-4870.

Web site: http://www.csuohio.edu/cehs/departments/hperd/.

Major-Field Requirements

- For Multi-Age Teaching Licensure in Physical Education
- For Allied Sport Professions

Multi-Age Licensure in Physical Education

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About Multi-Age Licensure

Multi-Age license, valid for teaching learners from ages 3-21 and grades Pre-Kindergarten-12 in the curriculum areas named in such license. Preparation in the teaching field shall constitute at least an academic major or its equivalent with sufficient advanced course work in all areas to be taught.

Requirements

(120 hours, minimum)

A. General Education and Prerequisite Requirements (41-54 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the university GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

Basic Foundation

1. **Intro to University Life** (if required)
    - ASC 101 Introduction to University Life (1 hour)
2. **Writing/Composition**
    - ENG 101 College Writing I (4 hours)
    - ENG 102 College Writing II (3 hours)
3. **Mathematics and Quantitative Literacy**
    - Math or QL course selected from approved list (MTH 116 recommended) (4 hours)
    - Second Math or QL course selected from approved list (MTH 117 recommended) (4 hours)

Breadth of Knowledge

4. **Natural Sciences** (See HPERD Department for specific course requirements)
    - Natural Science course selected from approved list with corresponding lab (4 hours)
    - Second Natural Science course selected from approved list (3 hours)
5. **Social Sciences**
    - PSY 220 Child Development (3 hours)
    - PSY 221 Adolescent Psychology (3 hours)
    - Third Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
6. **Arts and Humanities**

- DAN 201 Introduction to Dance (3 hours)
- Second Arts and Humanities course selected from approved list, from department other than HPERD and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)

7. **Social Diversity**
   - EDC 300 Diversity in Educational Settings (3 hours)
   - African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
   - The three-course Writing-Across-the-Curriculum requirement will be met by program requirements, including EDB 301, EDB 302, and PED 330
9. **Capstone Experience**
   - PED 445 Gateway to the Profession (3 hours taken as part of major) and PED 483 Student Teaching (10 hours taken as part of major)
10. **Wellness**
    - HED 210 Healthy Lifestyle Choices (3 hours taken as part of major)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B. Professional Education Requirements (23 hours)

Education course work and related professional experiences are included in this area (23 hours).

- EDB 200 Teaching as a Profession (2 hours)
- EDB 300 Educational Technology (2 hours)
- EDB 301 Social Foundations of Education (3 hours)
- EDB 302 Psychological Foundations of Education (3 hours)
- EDL 305 Content Area Literacy (3 hours)
- PED 483 Student Teaching (10 hours)

C. Major-Field Requirements (56-58 hours)

Required course work in physical education is included in this area (56 or 58 hours).

Forms of Movement (11 hours)

1. *Group* I (select 2 courses)
   - PED 210 Archery, Golf (1 hour)
   - PED 211 Badminton, Tennis (1 hour)
   - PED 212 Bowling, Table Tennis, Orienteering, Boccie Ball, Croquet (1 hour)
   - PED 213 Track and Field, Aerobic Activities (1 hour)
2. *Group II* (select 2 courses)
   - PED 215 Lacrosse, Field Hockey, Touch Football (1 hour)
   - PED 216 Pickleball, Rugby, Team Handball, Broomball, Floor Hockey (1 hour)
   - PED 217 Softball, Basketball (1 hour)
   - PED 218 Volleyball, Soccer (1 hour)
3. *Alternative/Lifetime Sports* (select 1 course)
   - PED 220 Cross-Country Skiing and Snowshoeing (1 hour)
   - PED 221 In-Line Skating and Cycling (1 hour)
   - PED 222 Rock Climbing and Backpacking (1 hour)

    - PED 227 Aerobic Instructor Training (1 hour)
    - PED 240 Adventure Sports (2 hours)
4. *Gymnastics/Swimming/Dance* (4 courses required)
    - PED 225 Movement, Tumbling, and Apparatus (2 hours)
    - PED 226 Swimming (1 hour)
    - DAN 210 Dance for the Physical Educator (1 hour)
    - DAN 410 Teaching Dance (2 hours)

Theory/Methods (47 Hours)

- HED 200 First Aid and Emergency Care (0-2 hours)
- HED 210 Healthy Lifestyle Choices (3 hours)
- PED 200 Foundations of Sport, Exercise, and Movement (2 hours)
- PED 301 Early/Middle Childhood Physical Education (3 hours)
- PED 302 Middle/Adolescent-Young Adult Physical Education (3 hours)
- PED 322 Kinesiology (3 hours)
- PED 324 Physical Fitness (1 hour) (take with PED 325)
- PED 325 Physiology of Exercise (4 hours) (take with PED 324)
- PED 328 Legal and Administrative Aspects of Physical Education (4 hours)
- PED 330 Motor Learning and Development (4 hours) - Writing course
- PED 415 Evaluation in Physical Education (3 hours)
- PED 430 Psychosocial Aspects of Physical Activity (4 hours)
- PED 435 Physical Education for Students with Disabilities (4 hours)
- PED 440 Modes and Models in Physical Education (4 hours)
- PED 445 Gateway to the Profession: Communication and Collaboration (3 hours) (must be taken concurrently with Student Teaching)

Physical Education and Sport

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Allied Sport Professions (Specialization Option)

Exercise/Fitness Specialist (120 to 128 hours)

Sport Manager (120 to 133 hours)

- General Education Requirements
- Professional Requirements
- Specialty Requirement
    - Exercise/Fitness Specialist
    - Sport Manager

Required Courses:

A. General Education and Prerequisite Requirements (44-57 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the university GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

Basic Foundation

1. **Intro to University Life** (if required)
    - ASC 101 Introduction to University Life (1 hour)
2. **Writing/Composition**
    - ENG 101 College Writing I (4 hours)
    - ENG 102 College Writing II (3 hours)
3. **Mathematics and Quantitative Literacy**
    - Math or QL course selected from approved list (MTH 116 recommended) (4 hours)
    - Second Math or QL course selected from approved list (MTH 117 recommended) (4 hours)

Breadth of Knowledge

4. **Natural Sciences** (See HPERD Department for specific course requirements)
    - Natural Science course selected from approved list with corresponding lab (4 hours)
    - Second Natural Science course selected from approved list (3 hours)
5. **Social Sciences**
    - For students in Exercise Fitness Specialist program
        - PSY 101 Introduction to Psychology (3 hours)

        - Second Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
    - For students in Sport Management program
        - ECN 201 Macroeconomics (3 hours)
        - Second Social Science course selected from approved list, from department other than Economics and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
6. **Arts and Humanities**
    - DAN 201 Introduction to Dance (3 hours)
    - Second Arts and Humanities course selected from approved list, from department other than HPERD and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
7. **Social Diversity**
    - HPR 250 Diversity and Sports (3 hours)
    - African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
    - One of the three-course Writing-Across-the-Curriculum requirement will be met by program requirements (PED 466)
    - Second WAC course selected from approved list (3 hours)
    - Third WAC or SPAC course selected from approved list (3 hours)
9. **Capstone Experience**
    - PED 445 Gateway to the Profession (3 hours taken as part of major) and PED 480 Internship (8 hours taken as part of major)
10. **Wellness**
    - HED 210 Healthy Lifestyle Choices (3 hours taken as part of major)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B. Professional Core Requirements (28-30 hours)

The professional core of 28 to 30 hours is required for students in the two specialty areas.

- HED 200 First Aid and Emergency Care (0-2 hours)
- HED 210 Personal Health (3 hours)
- HED 475 Nutrition and Physical Activity (3 hours) - Writing course
- PED 200 Foundations of Sport, Exercise, and Movement (2 hours)
- PED 322 Kinesiology (3 hours)
- PED 324 Physical Fitness (1 hour)
- PED 325 Physiology of Exercise (4 hours)
- PED 430 Psychosocial Aspects of Physical Activity (4 hours) - Writing course
- PED 435 Physical Education for Students with Disabilities (4 hours)
- PED 465 Law and Policy Studies in Sport and Physical Education (4 hours)

C. Specialty Requirements

1. Exercise/Fitness Specialist (37 to 41 hours)

Theory and Practice (32 to 36 hours)

- HED 359 Principles of Health Education (3 hours)
- MLR 301 Principles of Management (3 hours)
- PED 205 Introduction to Sports Management (3 hours)
- PED 415 Evaluation in Physical Education (3 hours)
- PED 466 Sport Facility Management (3 hours) - Writing course
- PED 467 Sport Marketing (3 hours)
- PED 470 Exercise Testing and Prescription (3 hours)
- PED 472 Physiology of Aging (3 hours)
- PED 480/481 Internship and Senior Seminar (8 or 12 hours)

Personal Skill (5 hours)

- PED 210-213 Group I Forms of Movement Course (1 hour)
- PED 215-218 Group II Forms of Movement Course (1 hour)
- PED 220-222 Alternative/Lifetime Sports Forms of Movement Course (1 hour)
- PED 227 Aerobics Instructor Training (1 hour)
- PED 240 Adventure Sports (2 hours)
- PES 101 Physical Fitness (1 hour)
- PES 104 Jogging (1 hour)
- PES 105 Weight Training (1 hour)
- PES 107 Cross Training (1 hour)
- PES 128 Aquatics Fitness (1 hour)
- PES 160 Water Aerobics (1 hour)

2. Sport Manager (46 hours)

Theory and Practice (32 to 36 hours)

- ACT 221 Introductory Accounting (3 hours)
- GAD 250 Business Communication (3 hours)
- IST 203 Software Tools for Personal Productivity (3 hours)
- MLR 301 Principles of Management (3 hours)
- PED 205 Introduction to Sport Management (3 hours)
- PED 461 Sport Governance (3 hours)
- PED 466 Sport Facility Management (3 hours) - Writing course
- PED 467 Sport Marketing (3 hours)
- PED 480/481 Internship and Senior Seminar (8 or 12 hours)

Personal Skill (5 hours)

Select 5 hours of PES, PED, or DAN Forms of Movement or activity courses; one from each group (5 hours).

Planned Electives (5 to 9 hours)

With adviser guidance, select 5 to 9 hours depending on number of hours in PED 480/481 Internship and Senior Seminar (8 or 12 hours).

Special Education

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Special Education Intervention Specialist (B.S. in Ed.)
At-a-Glance

Degree Granted: Bachelor of Science in Education

Specialization Options: Mild/Moderate Educational Needs; Moderate/Intensive Educational Needs

Minimum Hours Required for Degree: Licensure as a Mild/Moderate Intervention Specialist: 120 to 134 hours; Licensure as a Moderate/Intensive Intervention Specialist: 127 to 141 hours.

Teaching Credential: Ohio four-year Resident Educator teaching license as a Mild/Moderate or Moderate/Intensive Intervention Specialist (ages 5 through 21 and grades K through 12). Requires successful completion of all program requirements, acceptable scores on applicable PRAXIS II examinations required for licensure and highly qualified teacher status (HQT) by the State Board of Education, and a passing score on the portfolio Checkpoint 4.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Accreditation: Having met current curriculum guidelines set by the Council for Exceptional Children, the Special Education Program is accredited by the National Council for Accreditation of Teacher Education.

Admission to Major: Must be admitted to the College of Education and Human Services (requires 2.50 cumulative grade-point average). Must also be accepted into a College of Education and Human Services program. This requires 2.50 cumulative grade-point average, grade of C or better on college-level English composition course, grade of C or better on college-level math course, an intake interview, and verification of good moral character.

Advising: Admission and program guidelines may be secured from the Education Student Services Center, Julka Hall 170A, 216-687-4625. Continuing academic, personal, and professional advising is available from assigned faculty advisers and the College Advising Office.

Evening Program: No evening program as students - must be available for field placements in area schools during the day; however, those classes that do not require fieldwork are generally offered in the evenings.

Department Office: Teacher Education; Julka Hall 302A, (216) 687-4600. Primarily designed to provide course work in the education of learners with exceptional needs. Available program options in the field of special education permit concentrated study in one of two areas: Learners with Mild or Moderate Educational Needs or Learners with Moderate or Intensive Educational Needs.

The specialization in Mild/Moderate Educational Needs is designed to prepare candidates to develop, implement, and evaluate individualized programs for children and adolescents ages 5 through 21 who have special academic and social adjustment needs. These individuals are typically identified as having a specific learning disability, mild/moderate intellectual disabilities, or mild/moderate behavioral disorders. Students who complete this program are eligible for provisional licensure as a mild/moderate intervention specialist and will demonstrate diagnostic skills and competencies in the assessment of academic and social needs as they particularly apply to the development and delivery of instruction in both general and special education classrooms.

Alternatively, the Moderate/Intensive Educational Needs specialization is intended to prepare candidates to work with children and youths ages 5 through 21 who have moderate, severe, or profound intellectual disabilities; emotional disorders; or multiple disabilities. Students who complete this program are eligible for provisional licensure as a Moderate/Intensive Intervention Specialist and will demonstrate skills in curriculum design and implementation, interdisciplinary teaming, and working with parents of individuals with exceptional needs.

Major-Field Requirements

Required Courses:

A. General Education and Prerequisite Requirements (47-61 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the university GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

1. Basic Foundation
    1. **Intro to University Life** (if required)
        - ASC 101 Introduction to University Life (1 hour)
    2. **Writing/Composition**
        - ENG 101 College Writing I (3 hours)
        - ENG 102 College Writing II (3 hours)
    3. **Mathematics and Quantitative Literacy**
        - MTH 127 Mathematics for Elementary and Middle School Teachers I (4 hours)
        - MTH 128 Mathematics for Elementary and Middle School Teachers II (4 hours)
        - MTH 129 Mathematics for Elementary and Middle School Teachers III (2 hours)

Breadth of Knowledge

    4. **Natural Sciences**
        - BIO 106 Human Biology in Health and Disease (3 hours)
        - BIO 107 Human Biology Laboratory (2 hours lab; 1 credit)

- EVS 206 Introduction to Environmental Science or other Natural Science course selected from approved list (3-4 hours)

5. **Social Sciences**
   - PSY 220 Child Development (3 hours)
   - PSY 221 Adolescent Psychology (3 hours)
   - Third Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
6. **Arts and Humanities**
   - Arts and Humanities course selected from approved list (3 hours)
   - Second Arts and Humanities course selected from approved list, from department other than first course and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
7. **Social Diversity**
   - EDC 300 Diversity in Educational Settings (3 hours)
   - African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
   - The three-course Writing-Across-the-Curriculum requirement will be met by program requirements, including EDB 301, EDB 302, ESE 400, EDL 301, and EDL 312
9. **Capstone Experience**
   - Student Teaching and Seminar (taken as part of major)
10. **Wellness**
    - HPR 101 Wellness as a Lifestyle (1 hour)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B. Professional Education Requirements (10 hours)

Core course work in education and related professional experiences are included in this area for a total of 10 hours. Where applicable, all prerequisites must be met prior to enrollment in these courses. In addition, EDB 301 and EDB 302 must be taken concurrently. The Professional Education courses must be completed first in the education sequence as they are perquisites for most of the major-field requirements.

- EDB 200 Teaching as a Profession (2 hours)
- EDB 300 Educational Technology (2 hours)
- EDB 301 Social Foundations of Education (3 hours)
- EDB 302 Psychological Foundations of Education (3 hours)

C. Major-Field Requirements (63-70 hours)

Course work in special education and related professional experiences are included in this area for a total of 63 to 70 hours depending on choice of specialty in mild/moderate or moderate/intensive educational needs. Because certain courses in these sequences must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the Education Student Services Center (JH 170A) before registering for classes.

1. *Mild/Moderate Intervention Specialist* (63 hours)
   - ECE 415 Mathematics Instruction in Preschool and the Primary Grades (3 hours)
   - ECE 417 Science Instruction in Preschool and the Primary Grades (3 hours)

- EDL 300 Phonics Assessment and Instruction (3 hours)
- EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
- EDL 305 Content Area Literacy (3 hours)
- EDL 312 Literature Based Reading Methods for Children (3 hours)
  or
  EDL 313 Literature-Based Reading Methods for Adolescents (3 hours)
- ESE 400 Introduction to Special Education (4 hours)
- ESE 402 Introduction to Individuals With Mild/Moderate Educational Needs (4 hours)
- ESE 411 Classroom Management and Intervention for Severe Behavior Problems (4 hours)
- ESE 412 Collaboration and Partnerships Among Parents and Professionals in Special Education (4 hours)
- ESE 416 Life Skills and Career Planning in Special Education (2 hours)
- ESE 421 Assessment for Instructional Needs (4 hours)
- ESE 422 Assessment-Based Curriculum and Instruction for Students with Mild/Moderate Disabilities (4 hours)
- EST 377 Practicum in Special Education: Mild/Moderate Intervention Specialists (4 hours)
- EST 487 Student Teaching for Mild/Moderate Intervention Specialists (12 hours)
- PED 456 Individualized Physical Education for Children with Special Needs (3 hours)

or PED 439 Therapeutic Recreation and Disability Sport (3 hours)

2. *Moderate/Intensive Intervention Specialist* (70 hours)
   - ECE 415 Mathematics Instruction in Preschool and the Primary Grades (3 hours)
   - EDC 309 Art Methods for the Classroom Teacher (2 hours)
   - EDL 300 Phonics Assessment and Instruction (3 hours)
   - EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
   - EDL 305 Content Area Literacy (3 hours)
   - EDL 312 Literature-Based Reading Methods for Children (3 hours)
   - ESE 400 Introduction to Special Education (4 hours)
   - ESE 403 Introduction to Individuals With Moderate/Severe Educational Needs (4 hours)
   - ESE 410 Diagnostic Assessment and Multi-Factored Evaluation for Students with Moderate and Severe Disabilities (2 hours)
   - ESE 411 Classroom Management and Intervention for Severe Behavior Problems (4 hours)
   - ESE 412 Collaboration and Partnerships Among Parents and Professionals in Special Education (4 hours)
   - ESE 413 Supporting Medical and Intensive Educational Needs (4-0-4 hours)
   - ESE 419 Life Skills Assessment, Curriculum, and Instruction (4 hours)
   - ESE 420 Assessment, Curriculum, and Instruction to Meet the Academic and Behavioral Needs of Students with Moderate/Intensive Educational Needs (4 hours)
   - EST 378 Practicum in Special Education: Moderate/Intensive Intervention Specialists (4 hours)
   - EST 488 Student Teaching for Moderate/Intensive Intervention Specialists (12 hours)
   - MUS 301 Music Fundamentals and Methods for the Classroom Teacher (4 hours)
   - PED 456 Individualized Physical Education for Children with Special Needs (3 hours) *or* PED 439 Therapeutic Recreation and Disability Sport (3 hours)

Multi-Age Programs

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About Multi-Age Licensure

Multi-Age license, valid for teaching learners from ages 3-21 and grades Pre-Kindergarten-12 in the curriculum areas named in such license. Preparation in the teaching field shall constitute at least an academic major or its equivalent with sufficient advanced course work in all areas to be taught.

The College of Education and Human Services offers Multi-Age licensure in the following areas:

- Multi-Age Licensure in Physical Education
- Multi-Age Licensure in Health Education as a Second Teaching Field
- Multi-Age Licensure in Foreign Language Education, Grades PreK to 12 (French or Spanish)
- Multi-Age Licensure in Music Education, Grades PreK to 12
- Multi-Age Licensure in Visual Arts Education, Grades PreK to 12

Multi-Age Licensure in Foreign Language Education, Grades PreK to 12 (French or Spanish)

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About Multi-Age Licensures

Multi-Age license, valid for teaching learners from ages 3-21 and grades Pre-Kindergarten-12 in the curriculum areas named in such license. Preparation in the teaching field shall constitute at least an academic major or its equivalent with sufficient advanced course work in all areas to be taught.

Requirements

(91 hours)

1. **General Education** (7 hours): Complete the General Education Requirements for selected major, including specific courses noted below:
    - PSY 221 Adolescent Psychology (3 hours)
    - EDC 300 Diversity in Educational Settings (3 hours)
    - HPR 101 Wellness as a Lifestyle (1 hour)
2. **Professional Education**
    - **Group A Foundations** (10 hours)
        - EDB 200 Teaching as a Profession (2 hours)
        - EDB 300 Educational Technology (2 hours)
        - EDB 301 Social Foundations of Education (3 hours)
        - EDB 302 Psychological Foundations of Education (3 hours)
    - **Group B — Curriculum and Methods** (13 hours)
        - EDB 305 Teaching and Management in the Secondary School (3 hours)
        - EDC 312 Foreign Language Education in the Elementary Schools (2 hours) (must be taken with EST 374)
        - EDC 313 Foreign Language Education in the Secondary Schools (2 hours) (must be taken with EST 374)
        - EDL 305 Content Area Literacy (3 hours)
        - ESE 404 Teaching Students of Varying Abilities (3 hours)
    - **Culminating Experiences** (15 hours)
        - EST 374 Practicum in Foreign Language Education (3 hours)
        - EDB 400 Classroom Assessment (2 hours) (must be taken with EST 484)
        - EST 484 Student Teaching in Foreign Language Education (10 hours)
3. **Concentration**
    - **Concentration in French** (46 hours)
        - Select one from below or begin at placement level
            - FRN 101 French I *and/or* FRN 102 French II (0-10 hours)
        - Core A: Composition and Conversation
            - FRN 301 Composition and Conversation (4 hours)
            - FRN 402 Advanced Composition and Conversation (4 hours)
        - Core B: Civilization, Phonetics, and Literature
            - FRN 201 Culture and Civilization (4 hours)

        - FRN 202 Francophone Perspectives on World Affairs or
          FRN 203 Readings in French (4 hours)
        - FRN 315 French Phonetics and Diction (4 hours)
        - FRN 344 French Civilization from Middle Ages to Empire or
          FRN 345 French Civilization from 1870 to the Present (4 hours)
        - Select 8 credit hours in literature from the following:
            - FRN 371 Literature Survey I (4 hours)
            - FRN 372 Literature Survey II (4 hours)
            - FRN 375 Readings in Francophone Literature (4 hours)
    - Core C: Electives. Select from list below to total 46 hours in major; at least 8 hours of the total must be at 400 level; no more than 8 hours of the total can be at 200 level
        - FRN 200/300/400 Practicum in French (1-6 hours)
        - FRN 240/340/440 Field Study (1-6 hours)
        - FRN 216 *or*
          FRN 316 Translation and Interpretation (3 hours)
        - FRN 296/396/496 Independent Study (1-6 hours)
        - FRN 302 Advanced Oral Styles (4 hours)
        - FRN 374 Readings in French Literature (4 hours)
        - FRN 416 Studies in French Linguistics (3 hours)
        - FRN 491 Senior Honors Project (3 hours)
        - FRN 393 or FRN 493 Special Topics in French (1-4 hours)
          or other course(s) not selected above in Core A or Core B
- **Concentration in Spanish** (46 hours)
    - Select from below or begin at placement level
        - SPN 101 Spanish I *and/or* SPN 102 Spanish II *or* SPN 111 First Year Review (0-10 hours)
    - Core A: Composition and Conversation. Select at least 8-12 hours from following, with no more than 4 hours at 200 level. Students beginning at 300 level should select 8 hours
        - SPN 201 Culture (4 hours)
        - SPN 202 Reading and Writing (4 hours)
        - SPN 207 Intermediate Commercial Spanish (4 hours)
        - SPN 301 Advanced Spanish: Oral Skills Emphasis (4 hours)
        - SPN 302 Advanced Spanish: Writing Skills Emphasis (4 hours)
        - SPN 303 Advanced Composition and Conversation for Native Speakers (4 hours)
        - SPN 393 Special Topics in Spanish (1-4 hours)
        - SPN 402 Advanced Grammar and Stylistics (3 hours)
    - Core B: Distribution Requirements
        - SPN 315 Introduction to Spanish Linguistics (4 hours)
        - SPN 345 Spanish Civilization *or*
          SPN 346 Latin American Civilization (4 hours)
        - SPN 371 Introduction to Spanish Literature *or* SPN 372 Introduction to Spanish American Literature (4 hours)
    - Core C: Electives. Select from list below to total 46 hours in major; at least 8 hours of total must be at 400 level
        - SPN 202 Reading and Writing (4 hours)
        - SPN 205 Intermediate Spanish Studies (4 hours)
        - SPN 240/340/440 Field Study (1-6 hours)
        - SPN 241/341/441 Spanish Field Study (1-6 hours)
        - SPN 293/393/493 Special Topics in Spanish (1-4 hours)
        - SPN 301 Advanced Spanish: Oral Skills Emphasis (4 hours)
        - SPN 302 Advanced Spanish: Writing Skills Emphasis (4 hours)
        - SPN 303 Advanced Composition and Conversation for Native Speakers (4 hours)

- SPN 345 Spanish Civilization (4 hours)
- SPN 346 Latin American Civilization (4 hours)
- SPN 365 Readings in Hispanic Literature (4 hours)
- SPN 371 Introduction to Spanish Literature (4 hours)
- SPN 372 Introduction to Spanish American Literature (4 hours)
- SPN 402 Advanced Grammar and Stylistics (3 hours)
- SPN 416 Studies in Spanish Linguistics (3 hours)
- SPN 417 History of Spanish (3 hours)
- SPN 445 Studies in Spanish Civilization (3 hours)
- SPN 446 Studies in Spanish American Civilization (3 hours)
- SPN 483 Studies in Spanish Literature (3 hours)
- SPN 484 Studies in Spanish American Literature (3 hours)
- SPN 491 Senior Honors Project (3 hours)

Multi-Age Licensure in Health Education

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Program Description

This program prepares teachers in the area of school health education. This is not a stand-alone credential. Health Education licensure candidates must either have or be in the process of acquiring a license in another teaching area. The curriculum for the health education program was selected by using the guidelines developed by the American Association for Health Education and the National Council for the Accreditation of Teacher Education (AAHE/NCATE). The National Health Education Standards developed by the Joint Committee on National Health Education Standards were also utilized to develop the curriculum.

Requirements

1. **Foundations of School Health** (19-24 hours)
    - HED 200 First Aid and Emergency Care (2 hours)
    - HED 210 Healthy Lifestyle Choices (3 hours)
    - HED 359 Principles of Health Education (4 hours)
    - HED 460 Foundations of a Coordinated School Health Program (4 hours)
    - HED 461 Methods and Materials of Health Education (3 hours)
    - HED 480 Practicum in Health (3-8 hours)
2. **Content Area** (6 hours)
    - HED 471 Substance Abuse Education (3 hours)
    - HED 473 Teaching Human Sexuality (3 hours)
3. **Guided Electives** (10-15 hours)
    - HED 450 Theories in Health Education and Health Behavior (4 hours)
    - HED 470 Pathophysiology of Disease (4 hours)
    - HED 472 Consumer Health (3 hours)
    - HED 474 Stress Management (3 hours)
    - HED 475 Nutrition and Physical Activity (3 hours)
    - HED 476 Teaching Nutrition (3 hours)
    - HPR 450 Microcomputer Application in Health and Physical Education (3 hours)
    - PED 472 Physiology of Aging (3 hours)

Multi-Age Licensure in Music Education, Grades PreK to 12

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About Multi-Age Licensure

Multi-Age license, valid for teaching learners from ages 3-21 and grades Pre-Kindergarten-12 in the curriculum areas named in such license. Preparation in the teaching field shall constitute at least an academic major or its equivalent with sufficient advanced course work in all areas to be taught.

Due to the limited number of education courses, a minor in music education is not available.

Requirements

(103 hours)

1. **General Education** (10 hours): Complete the General Education Requirements for selected major, including specific courses noted below:
    - PSY 220 Developmental Psychology (3 hours)
    - PSY 221 Adolescent Psychology (3 hours)
    - EDC 300 Diversity in Educational Settings (3 hours)
    - HPR 101 Wellness as a Lifestyle (1 hour)
2. **Professional Education** (40 hours)
    - Curriculum and Methods
        - EDL 305 Content Area Literacy (3 hours)
        - ESE 404 Teaching Students of Varying Abilities (3 hours)
    - Music Education and Field Experiences
        - MUS 205 Orientation to Music Education (1 hour)
        - MUS 351 Teaching String Instruments (2 hours)
        - MUS 352 Teaching Woodwind Instruments (2 hours)
        - MUS 353 Teaching Brass Instruments (2 hours)
        - MUS 354 Teaching Percussion Instruments (2 hours)
        - MUS 355 Teaching Vocal/Choral Music (2 hours)
        - MUS 444 Elementary Music Curriculum and Methods (3 hours)
        - MUS 445 Secondary Music Curriculum and Methods (3 hours)
        - MUS 446 Instrumental Methods (3 hours)
        - MUS 454 Elementary Music Field Experience (1 hour)
        - MUS 455 Secondary Music Field Experience (1 hour)
    - Culminating Experiences (taken concurrently)
        - EDB 400 Classroom Assessment (2 hours)
        - EST 485 Multi-Age Student Teaching in Music (10 hours)
3. **Major Field** (53 hours)
    - MUA Applied Music Lessons (7 semesters; 7 hours minimum)
    - MUS Ensembles (7 semesters; 9 hours minimum)
    - MUA 102 Keyboard Skills I (2 hours)
    - MUA 103 Keyboard Skills II (2 hours)
    - MUS 112 Macromusic (2 hours)

- MUS 113 Writing about Music (2 hours)
- MUS 231-234 Harmony and Form I, II, III, & IV (12 hours)
- MUS 241-244 Musicianship I-IV (4 hours)
- MUS 411/412 Music History I and II (6 hours)
- MUS 414 Ethnomusicology (3 hours)
- MUS 461 Conducting School Ensemble (3 hours)
- MUS 481 Half Recital (1 hour)

Multi-Age Licensure in Visual Arts Education, Grades PreK to 12

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About Multi-Age Licensure

Multi-Age license, valid for teaching learners from ages 3-21 and grades Pre-Kindergarten-12 in the curriculum areas named in such license. Preparation in the teaching field shall constitute at least an academic major or its equivalent with sufficient advanced course work in all areas to be taught.

Requirements (106 hours)

1. **General Education** (7 hours): Complete the General Education Requirements for selected major, including specific courses noted below:
    - PSY 220 Child Development (3 hours)
    - EDC 300 Diversity in Educational Settings (3 hours)
    - HPR 101 Wellness as a Lifestyle (1 hour)
2. **Professional Education** (39 hours)
    - EDB 200 Teaching as a Profession (2 hours)
    - EDB 300 Educational Technology (2 hours)
    - EDB 301 Social Foundations of Education (3 hours)
    - EDB 302 Psychological Foundations of Education (3 hours)
    - EDB 305 Teaching and Management in the Secondary School (3 hours)
    - EDB 400 Classroom Assessment (2 hours)
    - EDC 310 Elementary Methods for the Art Specialist (4 hours)
    - EDC 311 Secondary Methods for the Art Specialist (4 hours)
    - EDL 305 Content Area Literacy (3 hours)
    - ESE 404 Teaching Students of Varying Abilities (3 hours)
    - EST 486 Multi-Age Student Teaching (10 hours)
3. **Art Education (60 hours)**
    - ART 102 Introduction to Two-Dimensional Art/Design (4 hours)
    - ART 103 Introduction to Three-Dimensional Art/Design (4 hours)
    - ART 211 Drawing I (4 hours)
    - ART 221 Painting I (4 hours)
    - ART 231 Printmaking I (4 hours)
    - ART 226 Sculpture I *or*
      ART 246 Ceramics I (4 hours)
    - ART 242 Introduction to Typographic Principles (4 hours) *or*
      ART 244 Introduction to Macintosh (4 hours)
    - ART 252 Introduction to Early Western Art (4 hours)
    - ART 253 Introduction to Western Art since 1400 (4 hours)
    - ART 281 Far Eastern Art *or*
      ART 286 African Art (4 hours)
    - Completion of one studio sequence
        - ART 3__ _____ (4 hours)
        - ART 4__ _____ (4 hours)
    - ART 341 Valuing Processes In Visual Art (4 hours)
    - ART 441 Art in Social and Vocational Contexts (4 hours)
    - ART 3/4__ Elective in Art History (4 hours)

Adolescent and Young Adult Licensure

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    - Integrated Social Studies Education
    - Science Education—Dual Field Licensure
        - Life Science & Earth Science
        - Life Science & Chemistry
        - Chemistry & Physics (BA Physics)
        - Chemistry & Physics (BS Physics)
        - Chemistry & Physics (BS Chemistry)
        - Physics & Life Science
    - Single Field Sciences (Note—all single field and integrated science links should link to the bottom paragraph indicating that these concentrations are not included in the CSUTeach program. Students interested in these licenses should speak with an adviser.)
        - Life Science
        - Earth Science
        - Chemistry
        - Physics
    - Integrated Science
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Adolescent and Young Adult Licensure
At-a-Glance

Degree Granted: Upper-division undergraduates at Cleveland State University who wish to obtain an Adolescent/Young Adult license are expected to enroll in the college of their academic major and minor in Education. This dual enrollment is necessary to ensure fulfillment of the requirements of the academic major and the requirements of the teacher preparation program. Students follow the degree requirements of their college (the College of Science or the College of Liberal Arts and Social Sciences) and receive their baccalaureate degree from that college. Upon completion of all degree and licensure requirements, a minor in education is posted on student transcripts. The College of Education and Human Services may also recommend the granting of adolescent/young adult teaching license in a field other than the student's major to a person who has met the college and state requirements for such a credential.

Specialization Options: Adolescent/Young Adult Education: integrated language arts, integrated mathematics, and integrated social studies and a variety of science fields. NOTE: A new streamlined "CSUTeach" program leading to an initial Adolescent/Young Adult license in mathematics or science began in Fall 2010. Under the CSUTeach program specialized options for science have changed. The following combinations are available: life science & earth science; life science & chemistry; life science & physics; and physics & chemistry. Students interested in single field or integrated science licensure must speak with a CSUTeach adviser. More information about CSUTeach can be obtained from the CSUTeach Office, Department of Teacher Education, Julka Hall 345, 216-687-3709.

Minimum Hours Required for the Education Minor: Integrated language arts, Grades 7-12: 42 hours; integrated mathematics education, Grades 7-12: 36hours; integrated social studies education, Grades 7-12: 39 hours; science education, Grades 7-12 (all fields): 33 hours.

Teaching Credential: An Ohio four-year Resident Educator adolescent/young adult (ages 12 through 21 and grades 7-12) teaching license will be awarded upon successful completion of an appropriate degree program in the College of Science or the College of Liberal Arts and Social Sciences and the total professional education sequence or minor in education. (**Note:** In some instances, course work beyond the degree requirements of the student's college may be needed to obtain licensure.) In meeting these requirements course work taken at Cleveland State University may be combined with transfer hours from other accredited institutions. In all cases, however, students must complete their student-teaching experience and take at least two courses in their major teaching field and two education courses at Cleveland State. Eligibility for licensure further requires minimal attainment of 2.75 grade-point average in the professional education sequence and a grade-point average of 2.50 or better in all completed course work in the major teaching field. Finally, as mandated by the State Board of Education, candidates for licensure must take and pass all applicable PRAXIS II examinations.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System or Task Stream for CSUTeach students.

Accreditation: Having met current curriculum guidelines set by appropriate learned societies (including the National Council for the Social Studies, the National Council of Teachers of English, the National Council of Teachers of Mathematics, and the National Science Teachers Association), the College of Education and Human Services and its adolescent/young adult licensure programs are accredited by the National Council for Accreditation of Teacher Education.

Admission to Minor: To be accepted into an Adolescent/Young Adult License Program, undergraduates in other colleges of Cleveland State University must apply to the College of Education and Human Services Advising Office at least two full terms prior to the start of taking professional education course work at the 300 level and above. Declaration of a minor in education is required, as well as: a 2.50 cumulative grade-point average; grade of C or better on a college-level English composition course; grade of C or better on a college-level mathematics course; an intake interview; and verification of good moral character.

Advising: Admission and program guidelines may be secured from the Education Student Services Center, Julka Hall 170A, 216-687-4625. Continuing academic, personal, and professional advising is available from assigned faculty advisers and the Education Student Services Center. Most students will also have an adviser in their major field.

Evening Program: No evening program is offered as students must be available for field placements in area schools during the day; however, those classes that do not require fieldwork are frequently offered in the evenings.

Department Office: Teacher Education, Julka Hall 302A, 216-687-4600. Available programs in secondary education are intended to prepare candidates for teaching adolescents from ages 12 through 21. Taken as a

whole, these programs focus on the nature and needs of young adults as they particularly relate to the design, delivery, and evaluation of culturally and developmentally responsive instruction. Throughout each program, the acquisition of professional knowledge and skills is aided by reflective practice and inquiry. To that end, the observation of secondary school students and settings accompanies relevant study, is followed by on-site practice, and culminates in supervised student teaching. In addition, these programs provide for discipline-specific preparation in one of three integrated teaching fields (language arts, mathematics, and social studies) or one of five single or dual field science areas (life science; life science & earth science; life science & chemistry; life science & physics; and physics & chemistry.

Requirements

Required Courses:

A. General Education and Prerequisite Requirements (39-52 hours)

The courses listed in this section are designed to meet GenEd 2008 requirements and provide coursework prerequisite to the professional and major components of the program. In some cases, the listed courses exceed the university GenEd 2008 requirements. NOTE: The list of approved GenEd 2008 courses is continually updated; program and department advisers should be consulted for the latest list.

Because in some instances the successful completion of an academic major in the preferred teaching field may be insufficient to satisfy all content area or disciplinary requirements for teacher licensure, students are strongly urged to consult with an adviser in the Education Student Services Center, Julka Hall 107A, 216-687-4625, when selecting courses to fulfill General Education Requirements.

Basic Foundation

1. **Intro to University Life** (if required)
    - One course selected from approved list (1 hour)
2. **Writing/Composition**
    - ENG 100 or ENG 101 College Writing I (3 hours)
    - ENG 102 College Writing II (3 hours)
3. **Mathematics and Quantitative Literacy**
    - Math or QL course selected from approved list (3 hours)
    - Second Math or QL course selected from approved list (3 hours)

Breadth of Knowledge

4. **Natural Sciences**
    - Natural Science course selected from approved list with corresponding lab (4 hours)
    - Second Natural Science course selected from approved list (3 hours)
5. **Social Sciences**
    - PSY 221 Adolescent Psychology (3 hours)
    - Second Social Science course selected from approved list, from department other than Psychology and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
6. **Arts and Humanities**
    - Arts and Humanities course selected from approved list (3 hours)
    - Second Arts and Humanities course selected from approved list, from department other than first course and focusing on a society other than U.S. (Africa, Asia, Latin American, or Middle East) (3 hours)
7. **Social Diversity**
    - EDC 300 Diversity in Educational Settings (3 hours)

- African American Course selected from approved list (3 hours)

Additional Components

8. **Writing/Speaking Across the Curriculum**
    - The three-course Writing-Across-the-Curriculum requirement will be met by program requirements, including EDB 301, EDB 302, EDS 313, and/or ESE 400
9. **Capstone Experience**
    - (Check with department of academic major for course requirement)
10. **Wellness**
    - HPR 101 Wellness as a Lifestyle (1 hour)
11. **Foreign Language** (if required)
    - 2 semesters of foreign language or 2 semesters of American Sign Language (ASL) and 1 foreign culture course (0-12 hours)

B1. Professional Education Requirements (except CSUTeach) (39-42 hours)

Coursework in education and related professional experiences are included in this area for a total of 39 to 42 hours depending on teaching field. Because certain courses in these sequences must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the Education Student Services Center (ESSC; Advising Office), JH 170A, before registering for classes.

1. *Group A - Foundations*
    - EDB 200 Teaching as a Profession (2 hours)
    - EDB 300 Educational Technology (2 hours)
    - EDB 301 Social Foundations of Education (3 hours)
    - EDB 302 Psychological Foundations of Education (3 hours)
2. *Group B - Curriculum & Methods*
    - EDB 305 Teaching and Management in the Secondary School (4 hours)
    - EDL 305 Content Area Literacy (3 hours)
    - EDL 313 Literature-Based Reading Methods for Adolescents (Required for Language Arts Majors only) (3 hours)
    - ~~o~~ EDS 313 Secondary Language Arts Instruction and Assessment or
      or EDS 316 Secondary Social Studies Instruction and Assessment (4 hours)
    - EST 379 or EST 381 Practicum in Secondary Education English or Social Studies (3 hours)
    - ESE 404 Teaching Students of Varying Abilities (3 hours)
3. *Culminating Experiences*
    - EDB 400 Classroom Assessment (2 hours)
    - EST 489 or EST 491-Student Teaching in Secondary Education English or Social Studies (10 hours)

B2. CSUTeach Professional Education Requirements (26-29 hours)

For mathematics or science, coursework in education and related professional experiences are included in this area for a total 33-36 hours. Because certain courses in these sequences must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the Education Student Services Center (ESSC; Advising Office), JH 170A, before registering for classes.

1. *Prerequisites*
    - EUT 201: Step 1: Inquiry Approaches to Teaching (1 hour)
    - EUT 215: Step 2: Inquiry-based Lesson Design in Math (1 hour)

or

- EUT 217: Step 2: Inquiry-based Lesson Design in Science (1 hour)

2. *Science, Technology, Education and Math (STEM) Education Content*
   - EUT 210: Perspectives on Science and Mathematics (3 hours)
   - PHY 300: Research Methods (3 hours)
   - MTH 201: Functions and Modeling (Math Licensure only) (3 hours)
3. *STEM Education Courses*
   - EUT 302: Knowing & Learning in Mathematics and Science (3 hours)
   - EUT 305: Classroom Interactions (3 hours)
   - EDL 305: Content Area Literacy (3 hours)
   - EUT 315: Project-Based Learning in Mathematics (3 hours)

   or

   - EUT 317: Project-Based Learning in Science (3 hours)
4. *Culminating Experience*
   - EST 499: CSUTeach STEM Student Teaching (6 hours)

C. Major-Field Requirements

In many instances, successful completion of an academic major in the preferred teaching field at Cleveland State University will satisfy content area or disciplinary requirements for adolescent/young adult licensure. However, as outlined below, this is not always the case. The courses listed below identify the courses necessary to complete a major and licensure in each major area. Students are strongly encouraged to consult with an adviser in the Education Student Services Center, Julka Hall 170A, to ensure that all major and licensure requirements are met.

- Integrated Language Arts Education
- Integrated Mathematics Education
- Integrated Social Studies Education
- Dual Field Science
  - Life Science and Earth Science
  - Life Science and Chemistry
  - Physics and Life Science
  - Physics & Chemistry(BA Physics)
  - Physics & Chemistry (BS Physics)
  - Physics & Chemistry (BS Chemistry)

1. *Integrated Language Arts Education, Grades 7 to 12* (48 hours)

- Sophomore Prerequisites
  - ENG 240 Poetry (4 hours)
  - ENG 241 Fiction and Drama (4 hours)
- Major-Field Requirements (note: major-field requirements for teaching licenses do not always match major requirements for a bachelor's degree)
  - COM 101 Principles of Communication (4 hours)
  - COM 226 Mass Media and Society (4 hours) or COM 231 Evolution of Mass Media (4 hours)
  - ENG 308 Composition Theory for Teachers (4 hours)
  - ENG 310 Traditional Grammar (requirement can be fulfilled by passing departmental exam) (4 hours)
  - ENG 315 Introduction to the English Language (4 hours)
  - ENG 321 British Literature I (4 hours)
  - ENG 322 British Literature II (4 hours)
  - ENG 342 Survey of American Literature (4 hours)
  - ENG 382 Canonicity (4 hours)

- ENG 495 Senior Seminar (Capstone Course) (4 hours)

2. *Integrated Mathematics Education, Grades 7 to 12* (50 hours)

- MTH 181 Calculus I (4 hours)
- MTH 182 Calculus II (4 hours)
- MTH 220 Introduction to Discrete Mathematics (4 hours)
- MTH 281 Multivariable Calculus (4 hours)
- MTH 286 Intro to Differential Equations (4 hours)
- MTH 288 Linear Algebra (4 hours)
- MTH 301 Intro to Applied Mathematics (4 hours)
- MTH 323 Statistical Methods (4 hours)
- MTH 333 Geometry (4 hours)
- MTH 358 Abstract Algebra (4 hours)
- MTH 396 Junior Seminar (2 hours)
- MTH 401 Mathematical Modeling (4 hours)
- MTH 496 Senior Project (4 hours)

3. *Integrated Social Studies Education, Grades 7 to 12* (75 to 86 hours)

History Core (40 hours)

- Core I: History
  - HIS 101 Western Civilization I (4 hours) or HIS 102 Western Civilization II (4 hours)
  - HIS 111 US History to 1877 (4 hours)
  - HIS 112 US History since 1877 (4 hours)
  - HIS 165 Introduction to Latin American History (4 hours) or HIS 175 Introduction to African History (4 hours)
  - HIS 200 Introduction to Geography (4 hours)
  - HIS 215 History of African Americans to 1877 (4 hours) or HIS 216 History of African Americans since 1877 (4 hours)
  - HIS 301 American Cultural History (4 hours) or HIS 304 U.S. Urban History (4 hours)
  - HIS 370 World History (4 hours)
  - HIS 390 Introduction to Social Studies (4 hours)
  - HIS 400 Local History Seminar (4 hours)

Social Studies Core (21 to 22 hours)

- Core II: Required Social Studies Courses
  - ECN 201 Principles of Macroeconomics (3 hours)
  - ECN 202 Principles of Microeconomics (3 hours)
  - PSC 111 American Government (4 hours)
  - PSC 221 Comparative Politics (4 hours) or PSC 231 International Politics (4 hours)
  - PSC/HIS/ANT 227 Power, Authority, and Society in Nonwestern Communities (4 hours)
  - ANT 102 The Study of Culture (4 hours) or HIS 323 Recent American History (4 hours) or SOC 101 Introduction to Sociology (3 hours)

Concentration Core (14 to 24 hours)

- Core III: Concentration (Select 1 of 3 areas below)
  (At least one course must be included from Anthropology and Sociology unless taken as a required course above.)

A. Anthropology Concentration
    - Two of the following:
        - ANT 270 African-American Culture (4 hours)
        - ANT 324 Anthropology of Gender (4 hours)
        - ANT 351 Native North Americans (4 hours)
    - Two of the following:
        - ANT 352 Native South Americans (4 hours)
        - ANT 353 Cultures of Africa (4 hours)
        - ANT 394 Area Studies in Anthropology (4 hours)

B. Political Science Concentration
    - PSC 217 Urban Politics & the African-American Experience (3 hours) or
      PSC 305 Cultural Diversity in US Politics (4 hours)
    - PSC 318 The Presidency and Congress (4 hours) or
      PSC 342 American Political Thought (4 hours)
    - Two of the following:
        - PSC 310 Constitutional Law (4 hours)
        - PSC 311 Civil Rights & Civil Liberties (4 hours)
        - PSC 314 State Government & Politics (4 hours)
        - PSC 315 Public Policy and Administration (4 hours)
        - PSC 327 Politics of Peaceful World Change (4 hours)

C. Sociology Concentration
    - SOC 101 Introduction to Sociology (3 hours)
    - SOC 342 Sociology of Law (4 hours) *or*
      SOC 383 Political Sociology (4 hours)
    - Two of the following:
        - SOC 201 Race, Class and Gender (3 hours)
        - SOC 203 Sociology of Poverty (3 hours)
        - SOC 215 Black/White Interaction (3 hours)
        - SOC 317 Sociology of Gender (4 hours)
        - SOC 380 Racial and Ethnic Inequality (4 hours)

4. Dual Licensure Life Science and Earth Science (BS Biology)

Required Geology Courses (19 hours)

- EVS 206 Introduction to Environmental Science (4 hours)
- EVS 300/ EVS 301 Physical Features of Ecosystems and Lab (4 hours)
- GEO 100/GEO 101 Introductory Geology and Lab (4 hours)
- GEO 150/ GEO 151 Geological History of the Earth and Lab (4 hours)
- GEO 230 Natural Resources (3 hours)

Required Biology Courses (39 hours)

- BIO 200 /BIO 201 Introductory Biology I and Lab (4 hours)
- BIO 202/BIO 203 Introductory Biology II and Lab (4 hours)
- BIO 300/BIO 301 Plant Biology and Lab (4 hours)
- BIO 302/ BIO 303 Animal Biology and Lab (4 hours)
- BIO 304/ BIO 305 Population Biology and Evolution and Lab (4 hours)
- BIO 306 Biochemistry and Molecular Biology (4 hours)
- BIO 308/ BIO 309 Cell Biology and Lab (4 hours)
- BIO 310/ BIO 311 Genetics and Recitation (4 hours)
- BIO 390 Writing in Biology (2 hours)
- BIO 495 Biology Seminar (1 hour)
- BIO 499 Exit Evaluation-Capstone (0 hours)

- BIO Elective (4 hours)

Required Chemistry Courses (16 hours)

- CHM 261/266 General Chemistry I and Laboratory (5 hours)
- CHM 262/267 General Chemistry II and Laboratory (5 hours)
- CHM 331/336 Organic Chemistry I and Laboratory (6 hours)

Required Physics Courses (10 hours)

- PHY 221 College Physics I (5 hours)
- PHY 222 College Physics II (5 hours)

5. Dual Licensure Life Science and Chemistry (BS Biology)

Required Biology Courses (39 hours)

- BIO 200 /BIO 201 Introductory Biology I and Lab (4 hours)
- BIO 202 /BIO 203 Introductory Biology II and Lab (4 hours)
- BIO 300 /BIO 301 Plant Biology and Lab (4 hours)
- BIO 302 /BIO 303 Animal Biology and Lab (4 hours)
- BIO 304 /BIO 305 Population Biology and Evolution and Lab (4 hours)
- BIO 306 Biochemistry and Molecular Biology (4 hours)
- BIO 308 /BIO 309 Cell Biology and Lab (4 hours)
- BIO 310/BIO 311 Genetics and Recitation (4 hours)
- BIO 390 Writing in Biology (2 hours)
- BIO 495 Seminar (1 hour)
- BIO 499 Exit Evaluation (0 hours)
- BIO Elective (4 hours)

Required Chemistry Courses (24 hours)

- CHM 261/266 General Chemistry I and Laboratory (5 hours)
- CHM 262/267 General Chemistry II and Laboratory (5 hours)
- CHM 310/ CHM 315 Survey of Analytical Chemistry and Lab (4 hours)
- CHM 320 Survey of Physical Chemistry (4 hours)
- CHM 331/336 Organic Chemistry I and Laboratory (6 hours)
- CHM 404 Environmental Chemistry (3 hours)
- CHM 471 Faculty Colloquium (1 hour)

Required Earth Science Courses (4 hours)

- EVS 206 Introduction to Environmental Science (4 hours)

Required Physics Courses (8 hours)

- PHY 231 College Physics I (4 hours)
- PHY 232 College Physics II (4 hours)

6. Dual Licensure Chemistry and Physics (BA Physics)

Required Physics Courses (34 hours)

- PHY 241 University Physics I (5 hours)
- PHY 242 University Physics II (5 hours)
- PHY 330 Modern Physics (4 hours)
- PHY 340 Mechanics and Vibrations (4 hours)
- PHY 350 Electricity and Magnetism (4 hours)
- PHY 440 Quantum Physics I (4 hours)
- PHY 470 Environmental Physics (4 hours)
- PHY 474 Thermal Physics (4 hours)

Required Chemistry Courses (28 hours)

- CHM 261 /CHM 266 General Chemistry I and Lab (5 hours)
- CHM 262 /CHM 267 General Chemistry II and Lab (5 hours)
- CHM 310 /CHM 315 Analytical Chemistry and Lab (4 hours)
- CHM 320 Survey Physical Chemistry (4 hours)
- CHM 331 /CHM 336 Organic Chemistry I and Lab (6 hours)
- CHM 404 Environmental Chemistry (3 hours)
- CHM 471 Faculty Colloquium (1 hour)

Required Biology Courses (5 hours)

- BIO 380 Biology Content for Middle School Teachers (5 hours)

Required Earth Science Courses (4 hours)

- EVS 206 Introduction to Environmental Science (4 hours)

7. Dual Licensure Chemistry and Physics (BS Physics)

Required Physics Courses (46 hours)

- PHY 243 University Physics I (5 hours)
- PHY 244 University Physics II (5 hours)
- PHY 330 Modern Physics (4 hours)
- PHY 340 Mechanics and Vibrations (4 hours)
- PHY 350 Electricity and Magnetism (4 hours)
- PHY 440 Quantum Physics I (4 hours)
- PHY 450 Optics (4 hours)
- PHY 455 Optics Lab (4 hours)
- PHY 470 Environmental Physics (4 hours)
- PHY 474 Thermal Physics (4 hours)
- PHY 475 Statistical Physics (4 hours)

Required Chemistry Courses (25 hours)

- CHM 261 /CHM 266 General Chemistry I and Lab (5 hours)
- CHM 262 /CHM 267 General Chemistry II and Lab (5 hours)
- CHM 320 Survey Physical Chemistry (4 hours)
- CHM 331 /CHM 336 Organic Chemistry I and Lab (6 hours)
- CHM 401 Chemical Information (2 hours)
- CHM 404 Environmental Chemistry (3 hours)

Required Biology Courses (5 hours)

- BIO 380 Biology Content for Middle School Teachers (5 hours)

Required Earth Science Courses (4 hours)

- EVS 206 Introduction to Environmental Science (4 hours)

8. Dual Licensure Chemistry and Physics (BS Chemistry)

Required Chemistry Courses (43 hours)

- CHM 261 /CHM 266 General Chemistry I and Lab (5 hours)
- CHM 262 /CHM 267 General Chemistry II and Lab (5 hours)
- CHM 310/315 Survey of Analytical Chemistry and Lab (4 hours)
- CHM 320 Survey Physical Chemistry (4 hours)
- CHM 331 /CHM 336 Organic Chemistry I and Lab (6 hours)
- CHM 332/337 Organic Chemistry II and Lab (6 hours)
- CHM 401 Chemical Information (2 hours)
- CHM 402 Biochemistry (3 hours)
- CHM 404 Environmental Chemistry (3 hours)
- CHM elective (4 hours)
- CHM 471 Faculty Colloquium--capstone (1 hour)

Required Physics Courses (30 hours)

- PHY 241/243 University Physics I (5 hours)
- PHY 242/244 University Physics II (5 hours)
- PHY 330 Modern Physics (4 hours)
- PHY 340 Mechanics and Vibrations (4 hours)
- PHY 350 Electricity and Magnetism (4 hours)
- PHY 470 Environmental Physics (4 hours)
- PHY 474 Thermal Physics (4 hours)

Required Biology Courses (5 hours)

- BIO 380 Biology Content for Middle School Teachers (5 hours)

Required Earth Science Courses (4 hours)

- EVS 206 Introduction to Environmental Science (4 hours)

9. Dual Licensure Physics and Life Science (BA Physics)

Required Physics Courses (34 hours)

- PHY 243 University Physics I (5 hours)
- PHY 244 University Physics II (5 hours)
- PHY 330 Introduction to Modern Physics (4 hours)
- PHY 335 Modern Physics Lab (4 hours)
- PHY 340 Mechanics and Vibrations (4 hours)
- PHY 350 Electricity and Magnetism (4 hours)
- PHY 470 Environmental Physics (4 hours)
- PHY 474 Thermal Physics (4 hours)

Required Biology Courses (24 hours)

- BIO 200 /BIO 201 Introductory Biology I and Lab (4 hours)
- BIO 202 /BIO 203 Introductory Biology II and Lab (4 hours)
- BIO 302/303 Animal Biology and Lab (4 hours)
- BIO 304/BIO 305 Population Biology and Evolution and Lab (4 hours)
- BIO 306 Biochemistry and Molecular Biology (4 hours)
- BIO 310/BIO 311 Genetics and Recitation (4 hours)

Required Chemistry Courses (14 hours)

- CHM 261/266 General Chemistry I and Laboratory (5 hours)
- CHM 262/267 General Chemistry II and Laboratory (5 hours)
- CHM 331 Organic Chemistry Lecture (4 hours)

Required Earth Science Courses (4 hours)

- EVS 206 Introduction to Environmental Science (4 hours)

Single Field and Integrated Sciences

Students interested in science education licensure are strongly urged to complete a dual-science licensure program through CSUTeach. Students interested in single field or integrated science licensure must speak with a CSUTeach adviser. More information about CSUTeach can be obtained from the CSUTeach Office, Department of Teacher Education, Julka Hall 345, 216-687-3709.

Upper-Division Honors Program - Teaching Licensure

On this page:

- Back to College
- Program Objectives
- Admission to the Program
- Advising
- Program Requirements
- Go to College of Education and Human Services website

Program Objectives

The Education Honors Program is intended to achieve the following objectives:

- Encourage academically talented students to pursue teaching as a profession
- Demand rigorous academic written work from honors students, including a capstone action research project during the final two semesters of the licensure program
- Support reflective professional practice
- Enhance existing educational coursework by developing opportunities for independent research and/or involvement in faculty research
- Foster close relationships between an honors faculty adviser and honors students

Admission to the Program

The Education Honors program is open to all honors students in good standing in the CSU Honors Program or students admitted to the University Honors Program as juniors with an interest in pursuing teaching as a career.

Advising

A COEHS Honors Liaison, designated by the Associate Dean of Student and Alumni Services and External Relations, will meet with each student admitted to the education honors program to identify an honors adviser (also a full-time tenure track faculty member with graduate faculty status) appropriate for the student's intended licensure program. The honors adviser will meet with the honors student to select and develop contract course proposals and to identify a faculty member for an honors research project. As a result of close interaction with and supervision of the honors student, the honors adviser will be able to write a detailed letter of recommendation reflecting the student's achievements. In addition, the adviser will assist wherever possible in helping the honors student pursue appropriate employment opportunities after graduation.

Program Requirements

The College Honors Program requires that students complete at least 12 credits of honors work as follows:

1. Honors Experiences (9 credits). Each honors student will work with an adviser to select a minimum 9 credit hours of Honors experiences. These can include any combination of the following:
    a. Contract Course: Any 300-level or 400-level college course taught by a full-time faculty member can be modified to become an honors course. The student, with the adviser's assistance, will draw up a proposal for increasing the rigor of a course. Course proposals should be approved by the course instructor, honors adviser, and college Honors Liaison.

b. Graduate Course: Students taking cross-listed classes can complete 500-level requirements for honors credit.
c. Honors Research: This is research conducted jointly with a full-time faculty member, which may include the honors adviser. Students register for EDB 451—Individual Projects in Education, 1-4 credits. Course can be repeated for credit. At least 2 credits of this experience are recommended to help students prepare for the Action Research Project during the final two semesters. Students may submit proposals to present their work at regional and national research conferences.

2. Action Research Capstone Project (3 credits). Each honors student will complete an action research project investigating classroom practices, proposing a plan of action, and evaluating and reporting on intervention. The summer prior to practicum, honors students will generate 2-3 potential topics with the assistance of their honors adviser. During practicum, students will select a topic, design a study, pilot and revise their project methodology. During student teaching, students will register for EDB 495 Seminar on Classroom Inquiry. They will implement their proposed plan of action and write up its outcome by the end of student teaching. The project must be presented to a committee including the mentor teacher, honors adviser, student teaching supervisor (if the honors adviser is not the supervisor), and the Honors Liaison.
3. Honors Requirement for Student Teaching. In addition to the written requirements, education honors students must demonstrate exceptional teaching practice. Honors students will be supervised by their honors adviser. Documentation of teaching practice must include "outstanding" (3.5-4.0) evaluations from both the honors student's mentor teacher(s) and supervisor. Such evaluations are required for eligibility for the "University Honors" distinction to be posted on the student's diploma and transcript but are not required to receive a passing grade in student teaching.

Post-Baccalaureate Teacher Preparation Programs

On this page:

- Back to College
- Introduction
- Licensure Programs
    - Early Childhood
    - Middle Childhood
    - Adolescent and Young Adult or Multi-Age
- Endorsement Programs for Practicing Teachers
    - Teaching English to Speakers of Other Languages
    - Bilingual Education (Spanish)
- Go to College of Education & Human Services website

Introduction

The College of Education and Human Services offers a variety of teacher preparation programs for individuals who have earned bachelor's degrees and who have had little or no professional training in education. While these programs lead to licensure, most of the course work they require cannot be applied to a graduate degree. All post-baccalaureate students seeking teacher licensure must fully meet the college's admission requirements and professional standards as outlined in this catalog. Moreover, students must be available for fieldwork in area schools during the day and are urged to carefully plan their program of study since they must apply for practicum and student teaching placements one semester in advance of registration for these experiences.

An individual appointment with an adviser in the Education Student Services Center (Julka Hall 170A) is required prior to acceptance into any of the post-baccalaureate programs described below. During the appointment, the adviser will provide a personalized assessment of required course work. Upon program completion, students are also invited to make use of the university's Career Services Center for help in obtaining employment.

College Graduates Seeking Early Childhood Licensure

On this page:

- Back to Post-Baccalaureate Teacher Preparation Programs
- Introduction
- Requirements
- ECE Courses
- Go to Department of Teacher Education website

Early Childhood Licensure
Introduction

As outlined below, the post-baccalaureate licensure program in early childhood education consists of three components: general education requirements, prerequisites to the professional education sequence, and professional education requirements. The program is designed to prepare college graduates of 4-year institutions with little or no formal course work in education for teaching children ages 3 to 8 (grades pre-k to 3), including children with special learning needs. Graduates of highly specialized undergraduate degree programs (such as music, fine arts, and business administration) may need to complete additional general education requirements in order to qualify for early childhood licensure. Without exception, recommendation for provisional licensure further requires the successful completion of any applicable PRAXIS II examinations prescribed by the State Board of Education.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Requirements

A. General Education Requirements

Course work of at least 30 semester or 45 quarter hours, including offerings in composition, mathematics and logic, arts and humanities, social sciences, and natural sciences.

B. Prerequisites

Equivalent courses taken at other universities may substitute for the following prerequisites pending prior approval of the College of Education and Human Services' Advising Office (EB 107A).

- ART 252 *or* ART 253 Introduction to Western Art (4 hours)
- EDC 300 Diversity in Educational Settings (3 hours)
- MTH 127 Mathematics for Elementary and Middle School Teachers I (4 hours)
- MTH 128 Mathematics for Elementary and Middle School Teachers II (4 hours)
- MTH 129 Mathematics for Elementary and Middle School Teachers III (2 hours)

- PSY 220 Child Development (3 hours)
- SPH 229 Speech and Language Development (3 hours)

C. Professional Education Requirements

Course work in education and related professional experiences are included in this area for a total of 75 hours. Because certain courses in this sequence must be taken concurrently or in a prescribed order, students are strongly advised to seek assistance from the college's Advising Office, EB 107A, before registering for classes.

Foundations

- EDB 200 Teaching as a Profession (2 hours)
- EDB 300 Educational Technology (2 hours)
- EDB 301 Social Foundations of Education (3 hours)
- EDB 302 Psychological Foundations of Education (3 hours)
- ECE 300 Introduction to Early Childhood Education (3 hours)

Literacy

- EDL 300 Phonics Assessment and Instruction (3 hours)
- EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
- EDL 311 Emergent Literacy (3 hours)
- EDL 312 Literature-Based Reading Methods for Children (3 hours)

Curriculum and Methods

- ECE 401 Developmental Curriculum for Early Childhood Programs (4 hours)
- ECE 402 Teaching Methods in Early Childhood Education (4 hours)
- ECE 403 Teaching Young Children with Mild and Moderate Disabilities (3 hours)

Special Methods

- ESE 415 Assessing Young Children (4 hours)
- ECE 412 Collaboration with Families and Professionals in Early Childhood Settings (4 hours)
- ECE 415 Mathematics Instruction in Preschool and the Primary Grades (3 hours)
- ECE 416 Social Studies Instruction in Preschool and the Primary Grades (3 hours)
- ECE 417 Science Instruction in Preschool and the Primary Grades (3 hours)
- EDC 309 Art Methods for the Classroom Teacher (2 hours)
- MUS 301 Music Fundamentals and Methods for the Classroom Teacher (4 hours)
- PED 316 Health and Physical Education for the Classroom Teacher (3 hours)

Culminating Experiences

- EST 370 Practicum in Early Childhood Education (3 hours)
- EST 480 Student Teaching in Early Childhood Education (10 hours)

College Graduates Seeking Middle Childhood Licensure

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- Introduction
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- EDM Courses
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Middle Childhood Licensure
Introduction

As outlined below, the post-baccalaureate licensure program in middle childhood education consists of four components: general education requirements, prerequisites to the professional education sequence, professional education requirements, and discipline-specific requirements in two of four content areas: language arts, mathematics, science, or social studies. The program is designed to prepare college graduates with little or no formal course work in education for teaching adolescents ages 9 to 14 (grades 4 to 9).

In addition to needed course work, a recommendation for Student Teaching requires taking all required PRAXIS examinations. Approval for teaching licensure requires candidates to meet the minimum cut-off score for all required PRAXIS II examinations as prescribed by the State Board of Education. If the cut-off score is not achieved, each test may be repeated until the minimum score is achieved.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System.

Requirements

A. General Education Requirements

Course work of at least 30 semester including concentrated study of at least two content areas that are broad, multidisciplinary, and encompass the major areas in those fields as described in Section D below.

B. Prerequisites

Equivalent courses taken at other universities may substitute for the following prerequisites pending prior approval of the College of Education and Human Services' Advising Office, JH 170A.

- EDC 300 Diversity in Educational Settings (3 hours)
- PSY 220 Child Development (3 hours)
- PSY 221 Adolescent Psychology (3 hours)

C. Professional Education Requirements

Course work in education and related professional experiences are included in this area for a total of 44 semester hours. Because certain courses in this sequence must be taken concurrently and in a prescribed order, students are strongly advised to seek assistance from the Education Student Services Center, JH 170A, before registering for classes.

- EDB 200 Teaching as a Profession (2 hours)
- EDB 300 Educational Technology (2 hours)
- EDB 301 Social Foundations of Education (3 hours)
- EDB 302 Psychological Foundations of Education (3 hours)
- EDB 303 History and Philosophy of Middle School: Teaching and Management in Context (4 hours)
- EDL 300 Phonics Assessment and Instruction (3 hours)
- EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3 hours)
- EDL 305 Content Area Literacy (3 hours)
- EDL 313 Literature-Based Reading Methods for Adolescents (3 hours)
- ESE 404 Teaching Students of Varying Abilities (3 hours)
- EST 371 Practicum in Middle Childhood Education (3 hours to be taken concurrently with two of the following content area methods courses: EDM 313, EDM 315, EDM 316, or EDM 317)
- EDB 400 Classroom Assessment (2 hours)
- EST 481 Student Teaching in Middle Childhood Education (10 hours)

D. Discipline-Specific or Content Area Requirements

Middle childhood licensure requires concentrated study in at least two of the following multidisciplinary content areas: language arts, mathematics, science, and/or social studies. As outlined below, the distributional requirements for these fields include course work from the various disciplines of which they are comprised and may demand further study beyond that completed as an undergraduate. With approval, interdisciplinary courses may be used to fulfill multiple standards. For example, a physical science course like EDC 418 that includes coverage of both chemistry and physics could be used to satisfy the requirement for course work in both disciplines. Similarly, a course in physical geography such as GEO 209 might be used to meet concentration requirements in both science and social studies.

1. The concentration in **Language Arts** requires 27 to 28 semester hours of course work distributed over the following major areas of study: advanced composition, linguistics, literature, and speech/communication, theater/drama *and/or* media studies. The following courses or their equivalencies are required:
    - COM 225 Media Writing *or* ENG 304 Creative Writing for Teachers (4 hours)
    - COM 242 Public and Professional Speaking *or* DRA 225 Principles of Acting (3 to 4 hours)
    - ENG 206 Literature and American Culture *or* ENG 342 Survey of American Literature (4 hours)
    - ENG 310 Traditional Grammar *or* ENG 311 Elements of Linguistics (4 hours)
    - EDM 313 Teaching and Assessing Language Arts in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)
    - And two elective literature courses (8 hours)

2. The concentration in **Mathematics** requires 24 semester hours of course work well distributed over the following major areas of study: college algebra or calculus, geometry, number systems, and probability and statistics. The following courses or their equivalencies are required:
    - MTH 326 Numbers, Patterns and Operations for Middle School Teachers (4 hours)
    - MTH 327 Algebra and Functions for Middle School Teachers (4 hours)
    - MTH 328 Geometry for Middle School Teachers (4 hours)

- MTH 329 Data Analysis and Probability for Middle School Teachers (4 hours)
- MTH 330 Conversational Calculus for Middle School Teachers (pre-requisite - MTH 327) (4 hours)
- EDM 315 Teaching and Assessing Mathematics in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)

3. The concentration in **Science** requires 33 semester hours of course work well distributed over the following major areas of study: the biological or life sciences, chemistry, earth science, environmental science, physics, and space science. The following courses or their equivalencies are required:
    - BIO 106/BIO 107 Human Biology in Health and Disease and Lab (5 hours)
    - BIO 380 Biology Content for Middle School Teachers (5 hours)
    - CHM 380 Chemistry for Middle School Teachers (5 hours)
    - EVS 380 Earth System Science for Middle School Teachers (pre-requisites - GEO 100 & GEO 102) (5 hours)
    - GEO 100/GEO 101 Introductory Geology and Lab (4 hours)
    - PHY 400 Conceptual Physics for Middle School Teachers (5 hours)
    - EDM 317 Teaching and Assessing Science in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)

4. The concentration in **Social Studies** requires a minimum of 30 semester hours of course work well distributed over the following major areas of study: economics, geography (physical, cultural, and/or economic), history (world or non-Western, American, and Ohio), and American government. The following courses or their equivalencies are required:
    - ECN 201 Principles of Macroeconomics (3 hours)
    - ECN 202 Principles of Microeconomics (3 hours)
    - HIS 111 United States History to 1877 (4 hours)
    - HIS 112 United States History since 1877 (4 hours)
    - HIS 200 Introduction to Geography (4 hours)
    - HIS 306 History of Ohio (4 hours) *or* HIS 400 Local History Seminar (4 hours)
    - PSC 221 Comparative Politics (4 hours) *or* PSC 231 International Politics (4 hours)
    - EDM 316 Teaching and Assessing Social Studies in the Middle School (4 hours to be taken concurrently with EST 371, Practicum)

College Graduates Seeking Adolescent and Young Adult or Multi-Age Licensure

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- Requirements
- EDC Courses
- EDS Courses
- Go to Department of Teacher Education website

Adolescent and Young Adult or Multi-Age Licensure
Introduction

The College of Education and Human Services offers a post-baccalaureate program for college graduates seeking secondary licensure to teach integrated language arts, integrated mathematics, integrated social studies, and a variety of science fields (see earlier section on secondary education for the full list) in grades 7 through 12. Similarly, a post-baccalaureate program exists for college graduates interested in obtaining multi-age licensure to teach physical education, French, Spanish, music, or the visual arts to students ages 3 to 21. As discussed below, these undergraduate-level programs consist of four components: general education requirements, prerequisites to the professional education sequence, professional education requirements, and discipline-specific requirements in the selected teaching field. In addition to needed course work, recommendation for teacher licensure requires the successful completion of any applicable PRAXIS II examinations prescribed by the State Board of Education.

Portfolio: All teaching license students are expected to maintain a portfolio while completing their professional coursework and field experiences. The portfolio will evolve from a working portfolio to a professional portfolio and finally to an employment portfolio. In it, students are responsible for housing various required and optional artifacts that demonstrate their level of competency in each of the outcomes of their program.

At various portfolio checkpoints, students must meet specific portfolio criteria in order to be eligible to continue to the next phase of their program. For complete information on portfolios, students are strongly encouraged to access the Student Portfolio Handbook available at: http://www.csuohio.edu/cehs/students/portfolios/.

As of Fall semester, 2007, all students entering teacher license programs are required to maintain their portfolios in the Cleveland State University ePortfolio System or TaskStream for CSUTeach students.

Requirements

A. General Education Requirements

Course work of at least 30 semester hours, including offerings in composition, mathematics and logic, arts and humanities, social sciences, and natural sciences.

B. Prerequisites

Equivalent courses taken at other universities may substitute for the following prerequisites pending prior approval of the College of Education and Human Services' Advising Office, EB 107A.

- EDC 300 Diversity in Educational Settings (3 hours)

- PSY 221 Adolescent Psychology (3 hours)

C. Professional Education Requirements

Course work in education and related professional experiences are included in this area for a total of 19 to 43 hours depending on the teaching field. See the earlier sections on secondary education and multi-age licensure for specific professional education requirements by field or secure a checklist from the Education Student Services Center, Julka Hall 170A.

D. Discipline-Specific or Content Area Requirements

While previous completion of an academic major in the preferred teaching field is often sufficient to meet licensure requirements, this is not always the case. Consequently, students are strongly encouraged to consult with an adviser in the Education Student Services Center, JH 170A, to ensure that all such requirements are met. The College of Education and Human Services may recommend the granting of a multi-age or adolescent/young adult teaching license in a field other than the student's major to a person who has met the college and state requirements for such a credential.

Endorsement Programs for Licensed Teachers

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- Introduction
- Teaching English to Speakers of Other Languages (TESOL) Endorsement
- Bilingual Endorsement (Spanish)
- Go to Department of Teacher Education website

Endorsement Programs for Practicing Teachers

Introduction

The College of Education and Human Services can recommend PreK-12 endorsement in Teaching English to Speakers of Other Languages (TESOL) as well as a PreK-12 endorsement for Bilingual Education (Spanish) for candidates who hold an Ohio teaching license or certificate, have completed an approved program of preparation, and have successfully passed any PRAXIS II examinations prescribed by the State Board of Education.

Teaching English to Speakers of Other Languages (TESOL) Endorsement

Requires a minimum of 21 semester hours of course work as outlined below:

- EDC 300 Diversity in Educational Settings (3 hours)
- EDL 406 Second Language Learning and Pedagogy (3 hours)
- EDL 407 Instructional Methods in TESOL (3 hours)
- EST 373 Practicum in TESOL (3 hours)
- EDL 408 Applied Linguistics for Teachers (3 hours)
- EDL 409 Assessment and Evaluation in the ESL/Bilingual Classroom (3 hours)
- EDL 410 Pedagogical Grammar (3 hours)

Bilingual Endorsement (Spanish)

Requires a minimum of 21 semester hours of course work as outlined below:

- EDL 406 Second Language Learning and Pedagogy (3 hours)
- EDL 409 Assessment and Evaluation in the ESL/Bilingual Classroom (3 hours)
- EDL 410 Pedagogical Grammar (3 hours)
- EDL 415 Foundations and Issues in Bilingual Education (3 hours)
- EDL 416 Methods and Teaching Content Areas in a Bilingual Setting (3 hours)
- SPN 493 Advanced Topics in Spanish Grammar and Linguistics (3 hours)
  Note: SPN 315 or SPN 402 may be substituted for SPN 493
- EST 372 Practicum in Bilingual Education (3 hours)

College of Education & Human Services: Certificate Programs

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- Introduction
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- Go to College of Education & Human Services website

Undergraduate Certificate in Foundations of Autism Spectrum Disorder

Certificate Description

The College of Education and Human Services Undergraduate Certificate Program in *Foundations of Autism Spectrum Disorder* provides students with basic knowledge and skills necessary to teach children and adolescents with autism. In this program, students will examine the characteristics of individuals with autism and practice educational interventions designed for children and youth with autism. Additionally, students will investigate and critically examine the scientific knowledge and theory underlying educational practices, programs, and strategies for individuals with autism.

In order to earn an Undergraduate Certificate in Foundations of Autism Spectrum Disorder, a student needs to take four courses at the undergraduate (400) level. This option is open to all undergraduate students regardless of their major. It is also available to post-baccalaureate students. Students may enter the program from different backgrounds and with a variety of objectives related to educating individuals with autism. This program is delivered in an online format. For further information, contact the Special Education Program (phone: 216-687-4600; email: specialeducation@csuohio.edu), or the College of Education and Human Services Advising Office at 216-687-4625.

Certificate Requirements

The requirement for this certificate is the completion of four special education courses:

ESE 423 Introduction to Individuals with Autism (4 hours)

ESE 411 Classroom Management and Intervention for Severe Behavior Problems (4 hours)

ESE 424 Curriculum and Instruction for Young Children with Autism (4 hours)

ESE 425 Curriculum and Instruction for School-Age Children and Adolescents with Autism (4 hours)

College of Education & Human Services: Certificate Programs

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Teaching English to Speakers of Other Languages (TESOL) (Certificate)

Introduction

The TESOL Certificate Program acquaints students with the basic knowledge and skills necessary to teach English as a second or foreign language. It would be useful to anyone interested in teaching English as a Second Language to immigrants in community agency ESL courses in the U.S. or to people who would like to teach English as a Foreign Language abroad. To get an undergraduate TESOL certificate a student needs to take five courses at the undergraduate (400) level. This option is open to all undergraduate students regardless of their major. It is also available to post-baccalaureate students as well as to non-degree undergraduate students. For further information, contact: Dr. Maria Angelova (phone: 216-523-7115; e-mail: m.angelova@csuohio.edu), Dr. Hoe Kyeung Kim (phone: 216-523-7122; e-mail: h.k.kim64@csuohio.edu), or the Education Student Services Center, Julka Hall 170A, 216-687-4625.

This program includes five of the core courses necessary for TESOL endorsement that can be added to a teaching licensure in any field. Two additional courses, however, are required to complete the endorsement in full. Teachers seeking to complete the endorsement program should contact the College of Education and Human Services Advising Office at 216-687-4625 for further information.

Certificate Requirements

The requirement for this certificate is the completion of five courses from the TESOL specialization courses. Three of these courses (EDL 406, EDL 408 and EDL 410) have been offered online since the fall of 2006.

- EDL 406 Second Language Learning and Pedagogy (3 hours)
- EDL 407 Instructional Methods in TESOL (3 hours)
- EDL 408 Applied Linguistics for Teachers (3 hours)
- EDL 409 Assessment and Evaluation in the ESL/Bilingual Classroom (3 hours)
- EDL 410 Pedagogical Grammar (3 hours)

College of Education & Human Services: Minors

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Fenn College of Engineering

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- Introduction
- Degree Listing
- Evening Programs
- Summer Programs
- General Requirements
    - Transfer Policy
- University Electives for Engineering Students
- Closed Course Sections
- Course Withdrawal Policy
- Enrollment in Engineering Courses by Non-Engineering Students
- Engineering Cooperative Education Program
- Engineering Minor
- Late Registration and Late Adding a Course
- Certificate Programs
    - Biotechnology

Bachelor of Engineering Degree Requirements
Requirements for specific degree programs are set forth in the following sections of this catalog.

Bachelor of:

- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering
- Bachelor of Science in Engineering Technology Programs:
    - B.S. in Electronic Engineering Technology
    - B.S. in Mechanical Engineering Technology
- Go to Fenn College of Engineering website

Introduction

Website: www.csuohio.edu/engineering

The fields of engineering and engineering technology have been fundamental forces in the advancement of humanity. The Fenn College of Engineering offers a variety of programs to students who wish to contribute to the world's progress through engineering and technology. All undergraduate engineering programs are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700, which is the recognized accrediting agency for college and university programs in applied science, computing, engineering, and technology. The undergraduate electronics engineering technology program is accredited by the Technology Accreditation Commission of ABET. With regard to the accelerated 5-year Bachelor's/Master's programs listed below, only the Bachelor's programs are accredited by ABET.

Students planning to enter the engineering profession may major in Chemical, Civil, Computer, Electrical or Mechanical Engineering. Those who plan to become engineering technologists may major in Electronic Engineering Technology or Mechanical Engineering Technology.

The college offers a certificate program for students who are working towards or already have a degree and want to add coursework that will enable them to focus on the biomedical field.

In addition, the College of Engineering offers graduate programs at both the master's and doctoral level in conjunction with the College of Graduate Studies. For further information, consult the Cleveland State University Catalog, Graduate Issue, or call the Dean's Office at: 216-687-2555.

Degrees

The faculty of Fenn College of Engineering offers programs leading to the following degrees:

- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Computer Engineering
- Bachelor of Electrical Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Science in Electronic Engineering Technology
- Bachelor of Science in Mechanical Engineering Technology
- Bachelor of Science/Master of Science in Electrical Engineering: 5-year accelerated program
- Bachelor of Science/Master of Science in Chemical Engineering: 5-year accelerated program
- Bachelor of Science/Master of Science in Civil Engineering: 5-year accelerated program
- Bachelor of Science/Master of Science in Mechanical Engineering: 5-year accelerated program

Evening Programs

It is possible to obtain an engineering degree with evening classes in the following areas: electronic engineering technology, mechanical engineering, and mechanical engineering technology. In addition, many of the classes required by the remaining engineering majors are offered in the evening.

Summer Programs

The College of Engineering offers a number of engineering science courses during the summer semester. Departmental courses are offered on a limited basis.

General Requirements

Depending on the program of study, a minimum of 128-136 credits of academic work is required for a bachelor of engineering degree (this does not include credits earned in the Cooperative Education Program and Orientation). Consult the program specific sections of this catalog for guidelines and minimum degree requirements.

All degree candidates must satisfy the university requirements which include English and General Education Requirements.

Degree candidates must attain a cumulative grade-point average of at least 2.00 for all work and at least 2.00 for all required courses — including technical electives — in the combined areas of engineering, computer science, mathematics, physics, and chemistry.

Technical electives are courses in engineering, mathematics, physical sciences, or computer science at the 300 level or above. These electives must not duplicate any courses used to satisfy other credit requirements in

the student's program. Courses chosen to satisfy the technical elective requirement must have adviser approval and must be taken for a grade.

All students are assigned to an engineering faculty member who will serve as their adviser. It is the responsibility of students to keep the adviser informed of their academic progress.

Students may not enroll in any courses for which they lack the required prerequisites. It is the responsibility of the student to see that all course prerequisites are satisfied.

The college reserves the right to alter the content of courses and curricula without previous notice and to provide suitable transition curricula which phase students into the newer courses and curricula.

Transfer Policy

Students enrolled in a college at Cleveland State other than the College of Engineering who wish to be considered for transfer to the College of Engineering should complete MTH 181, 182, CHM 261, 266, ENG 101, 102, and PHY 241 or 243. The College of Engineering requires a C or better in each of these courses, and an overall GPA of at least 2.2. The GPA will be calculated excluding remedial and pre-calculus courses.

University Electives for Engineering Students

In addition to Engineering College and departmental requirements and English requirements, university elective courses must be completed in the following areas for a total of 18 credit hours which will complete the university General Education (GenEd) Requirements:

Arts and Humanities:
Minimum 6 credit hours. Two courses (PHL 215 and one course from a department other than Philosophy which focuses on a society other than the United States).

Social Sciences:
Minimum 6 credit hours. Two courses (ESC 282 and one course which focuses on a society other than the United States).

Social Diversity:
Minimum 6 credit hours. Two courses (each course must be a minimum 3 credit hours).

A. One course must be African-American.
B. One course must be U.S. diversity.

Closed Course Sections

In courses for which a waiting-list is maintained, students may be admitted above the authorized size specified by the college, up to the room capacity, at the discretion of the instructor, and taking into account the availability of other sections.

For a course section that is closed and for which a student waiting-list is maintained, a student already enrolled in the section but unable to attend the first class period must notify the course instructor. After one class period, the college reserves the right to reassign the seat of a student not in attendance to someone from the course waiting-list.

Course Withdrawal Policy

The College of Engineering enforces a strict policy concerning student withdrawal from a course after the course has begun. A student may withdraw from a course until the university's published date for withdrawal. Engineering students are not allowed to withdraw from a course after that date. However, if extreme circumstances arise which may necessitate a student's withdrawal from a course, the student may submit a petition to the Engineering College Petitions Committee. The petition must state the specific reasons for withdrawal. These reasons must be fully documented. The petition must be signed by the student's adviser. The Petitions Committee will determine if the reason is compelling enough to require withdrawal from a course. The particular course or courses to be dropped must be determined in consultation between the student and the adviser. Poor academic performance in a course is not considered a valid reason for late withdrawal. Students should not stop attending a course unless approval of the petition is granted, since very few petitions are approved.

Enrollment in Engineering Courses by Non-Engineering Students

Enrollment in 200-level or above engineering courses is only open to students in the College of Engineering. If a non-engineering student wishes to take an engineering course as an elective, the student must first obtain the permission of the faculty adviser, who will determine the appropriateness of the course to the student's overall plan of study.

The student then must obtain approval by the dean of Engineering. If the student receives approval, written authorization will be given, which must be submitted when registering for the course. Students in the Biotechnology Certificate program can take the relevant engineering courses only after approval from the department offering the specific course is obtained.

Engineering Cooperative Education Program

The Cooperative Education (Co-op) program at Cleveland State University's Fenn College of Engineering is an experimental education opportunity that provides the link between the classroom and the workplace. It is an opportunity for the student to learn about his/her area of academic interest through practical experience. Participation is strongly encouraged.

In order for students of the Fenn College of Engineering to participate in the Engineering Cooperative Education Program, they must satisfy the following requirements:

1. Complete CSC 121 (Career Orientation)
2. Be in good academic standing (not on probation) with a cumulative grade-point average of 2.20 or better
3. Complete all courses through freshman or sophomore year, depending on major
4. Transfer students must complete at least 8 credit hours of course work at Cleveland State University in the engineering program, plus meet requirements 1, 2, and 3 above
5. Approval of the engineering cooperative education coordinator
6. Approval of the dean of Engineering

To remain in the engineering co-op program a student must:

1. Maintain a cumulative GPA of 2.20 or better and not be on probation
2. Register for ESC 300 before each work assignment
3. Complete all required paperwork and reports on time
4. Not deviate from the co-op schedule unless approved by the engineering cooperative education coordinator and the dean of Engineering

5. Meet formally at least once per semester with his /her faculty member

Students who have been accepted into the Engineering Cooperative Education Program are expected to remain in the program and to complete the schedule approved. A student can withdraw from the program only after giving adequate notice to the cooperative education office and getting approval from that office.

A student who withdraws from the program is not eligible to reapply. A minimum of three semesters of co-op experience is required to qualify as a graduate of the Engineering Cooperative Education Program. Credits earned in the Engineering Cooperative Education Program are in addition to the credits required for an engineering degree.

Students who wish to enter the Engineering Cooperative Education Program should go to the Cooperative Education Office in the Engineering Dean's Office and request permission to enter the program. The cooperative plan of education consists of alternating periods of employment and full-time study. Special permission is required to take a course while on a co-op assignment. Table J below shows the typical schedules of the program.

Table J: Engineering Co-op Schedule

	Fall	**Spring**	**Summer**
Year 1	1st study	2nd study	vacation
Year 2	3rd study	4th study	co-op or school
Year 3	5th study	co-op	class
Year 4	co-op	6th study	co-op
Year 5	7th study	8th study	

Engineering Minor

There are no minors available in the College of Engineering.

Late Registration and Late Adding a Course

No registration or adds will be permitted after the end of the first week of class. Students must complete the registration process by the end of the first week of class in the semester in which enrollment is sought. Also, students can add courses to their registration only through the first week of class in the semester in question.

Chemical and Biomedical Engineering

On this page:

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- CHE Courses
- Go to Chemical and Biomedical Engineering website

Bachelor of Chemical Engineering (B.Ch.E.)
At-a-Glance

Minimum hours required for degree: 132 (not including credits earned in the Engineering Cooperative Education Program and Orientation)

Admission to major: Admission to Fenn College of Engineering

Hours required for minor: There is no authorized minor in the Chemical Engineering Program. The chemical engineering curriculum fulfills the requirements for a minor in chemistry; the requirements for a minor in physics can be fulfilled with 4 additional credit hours. Interested students must complete an application for a minor with the Chemistry and Physics departments.

Certificate Program: Biotechnology - Engineering Track
(see description or call the department at 216-687-2571 for additional information.)

Evening Program: No evening program exists, but most non-CHE courses (and CHE electives) are offered evenings.

Advising: Students should meet with their assigned adviser each semester during advising week; phone: 216-687-2571.

Student Organizations: American Institute of Chemical Engineers (AIChE), Student Chapter.

Chemical Engineering Educational Objectives

The Chemical Engineering curriculum prepares the student for a successful career in a dynamic and progressive profession. A chemical engineer may pursue a wide scope of projects. Chemical engineers are responsible for the design and operation of processes that accomplish chemical changes. Examples of such processes are the production of antibiotics, detergents, drugs, paints, plastics, petrochemicals, advanced materials, and synthetics. A chemical engineer may also work on the research and development preceding or accompanying a given process design, or the management of a plant or an entire enterprise. The Cleveland State University chemical engineering curriculum provides a strong foundation to work in energy conservation and utilization, environmental pollution control, as well as the petrochemical industry and many other chemical-related industries. Consistent with mission of the university, college and department, this program has been designed to provide an attractive avenue for students interested in chemical engineering.

The chemical engineering program at CSU strives to prepare its graduates to:

1. Utilize practical engineering skills for productive, gainful, and ethical careers in chemical and related industries and organizations; and
2. Engage in lifelong learning through professional activities and/or the pursuit of higher educational degrees.

Special Notes:

Advanced Science Electives: A minimum of 4 credit hours of advanced science are required. The advanced science credits must be earned in a 300-level or above course in the fields of chemistry, physics, biology or geology. Independent studies with faculty from the departments of Chemistry, Physics, Biology or Geology can be used to fulfill these requirements. These courses must be taken for a letter grade, and students are required to present a formal written petition to the Department of Chemical and Biomedical Engineering prior to registration in such independent studies. Courses promoted on an S/U basis will not qualify to fulfill graduation requirements. Students can plan their electives sequence to fulfill the requirements for minors in chemistry and physics. These electives can also be selected to satisfy the Biotechnology Certificate track, or Accelerated Masters Programs in the College of Engineering. Details and guidelines can be obtained from the department academic adviser.

Senior Chemical and Biomedical Engineering Technical Electives: Two Chemical and Biomedical Engineering Technical electives are also required. These elective courses must be approved by the department for engineering design and science contents. A varied selection is offered each year. These electives can be selected to satisfy the Biotechnology Certificate track, or Accelerated Master's Programs in the College of Engineering. Details and guidelines can be obtained from the department academic adviser.

2-D in ESC and CHE rule: Chemical Engineering students are limited to a combined maximum of two grades of D in Engineering Science (ESC) or Chemical Engineering (CHE) courses to be eligible for graduation.

Program for the Bachelor of Chemical Engineering

First Year, Fall Semester	**Credits**
ENG 100 or ENG 101 English I	3
MTH 181 Calculus I	4
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ESC 120 Introduction to Engineering Design	2
ESC 100 New Student Orientation *	1
Total	15
First Year, Spring Semester	**Credits**
ENG 102 English II or ESC 102 Technical Writing and Professional Communication	3
MTH 182 Calculus II	4
PHY 241 University Physics I	5
CHM 262 General Chemistry II	4
CHM 267 General Chemistry Lab II	1
CSC 121 Career Orientation **	1
Total	17

Second Year, Fall Semester	**Credits**
PHY 242 University Physics II	5
ESC 321 Thermodynamics I	3
ESC 151 C Programming, or ESC 152 MATLAB Programming	3
ESC 250 Differential Equations for Engineers	3
General Education Elective	3
Total	17
Second Year, Spring Semester	**Credits**
CHE 300 Chemical Engineering Principles	4
ESC 301 Fluid Mechanics	3
ESC 350 Linear Algebra and Numerical Methods in Engineering	3
ESC 315 Electrical Engineering Concepts or ESC 201 Statics	3
MTH 283 or MTH 281 Multivariable Calculus for Engineers	2 or 4
Total	15-17
Third Year, Fall Semester	**Credits**
CHE 302 Chemical Engineering Thermodynamics	4
CHE 306 Transport Phenomena	4
ESC 270 Materials Science	3
CHM 331 Organic Chemistry I	4
CHM 336 Organic/Adv. Chem. Lab I	2
CHE 308 Junior Laboratory (Writing)	1
Total	18
Third Year, Spring Semester	**Credits**
CHE 404 Introduction to Reactor Design	4
CHE 408 Separation Processes	4
ESC 282 Engineering Economy	3

CHM 322 Physical Chemistry II	4
PHL 215 Engineering Ethics (Writing)	3
Total	18
Fourth Year, Fall Semester	**Credits**
CHE 440 Process Design I	3
CHE 430 Process Control (Writing)	4
CHE 4xx Senior Chemical and Biomedical Engineering Technical Elective I	3
Advanced Science Elective	4
General Education Elective	3
Total	17
Fourth Year, Spring Semester	**Credits**
CHE 441 Process Design II	3
CHE 4xx Senior Chemical and Biomedical Engineering Technical Elective II	3
CHE 420 Chemical Engineering Laboratory (Writing)	4
General Education Elective	3
General Education Elective	3
Total	16

*Not required for transfer students

***Required for co-op*

Upper-Division Honors and University Scholars Program

Students in the Honors or University Scholars programs who are majoring in Chemical Engineering are required to complete an Honors Thesis (three credit hours, minimum) and at least six (6) additional credits of approved Upper-Division Courses and/or Independent Studies. These credits can be used to fulfill graduation requirements within the traditional program, by substituting for senior chemical and biomedical engineering electives . In addition, students in the Honors program must complete an Honors Thesis (three credit hours, minimum). Credits earned through these guided research activities could be used towards the fulfillment of the Advanced Science Elective requirement.

Aiming to address a variety of educational goals (preparation for industry, graduate school, medical school, professional schools, etc.), the upper-division honors and university scholars program of the Chemical and Biomedical Engineering Department is to be tailored for each individual student.

Students will select, or be assigned, an Upper-Division adviser who will assist the student in formulating a "Plan of Study" designed to achieve the student's educational. This plan of study must be formulated by the first semester of the student's junior year, and filed with the student's academic records and the Honors and University Scholars Programs Office.

- **Upper-Division Honors and University Scholars Program:**

  Students in the Honors and University Scholars Programs will fulfill the six (6) credits requisite of upper-level technical electives by enrolling in two (2)_ 500-level graduate courses in Chemical and Biomedical Engineering. Students in the Upper-Division are allowed to enroll in a graduate-level course so long as the prerequisites are met or approval from the coure instructor is secured. These courses will fulfill the two (2) Chemical and Biomedical Engineering Technical Electives graduation requirement.

  All Chemical Engineering Honors students are *required* to write and present a thesis in their senior year, as a culmination of their honors experience. Students completing this requirements should register for CHE 499H (Chemical and Biomedical Engineering Honors Thesis). Thesis work will be performed under the guidance of a faculty member of the Department of Chemical and Biomedical Engineering and may take the form of a proposal, a research paper, a business plan, or a design project, representing the work and interest of the student. At the outset, the topic and scope of the thesis will be detailed and approved by the student's academic and honors adviser(s).

  If the proposed research project for the Honors Thesis is anticipated to require more than one semester, the student can register for CHE 496H (Chemical and Biomedical Engineering Honors Project) in those semesters when research is performed prior to the semester when the Honors Thesis completion (CHE 499H) is anticipated. Unlike the traditional Chemical and Biomedical Engineering (Senior) Project (CHE 496, open to seniors only), this course will be open to both juniors and seniors in the Honors Program. Students in the University Scholars Program can become eligible to register in CHE 496H by requesting permission from the Honors and Departmental Programs.

- **Conference attendance**

  Senior honors students will have the opportunity to travel to a regional, national, or international professional meeting with his or her project adviser. If appropriate, students will be encouraged to present work performed towards completion of the Honors Thesis. Funds will be available to support travel and/or conference fees.

- **Replaced courses:**

  Credits from the honors courses can be used to replace two senior chemical and biomedical engineering technical electives as well as the advanced science elective.

  Accelerated Masters Program: Students in the Honors and University Scholars Programs are eligible to participate in the Accelerated Masters Programs available in the College of Engineering. In order for the Upper-Division course work to be applicable towards these accelerated programs, students must be admitted to the corresponding Accelerated Masters Program prior to registering for the applicable courses.

  Students in the Accelerated Masters Program in Chemical Engineering must register for CHE 598 (Master's project), instead of CHE 499H, when completing their Honors Thesis.

Civil Engineering

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Civil Engineering (B.C.E.)
At-a-Glance

Minimum hours required for degree: 127 (this does not include hours earned in the Engineering Cooperative Education Program Career Orientation classes)

Admission to major: Admission to the Fenn College of Engineering

Hours required for minor: There is no authorized minor in the Civil Engineering degree program.

Evening Program: There is no Civil Engineering evening program; however, many courses required for the degree are offered evenings.

Advising: Each student is assigned a personal adviser who is a faculty member of the department.

The civil engineering profession deals with the design and construction of facilities necessary for the quality of life.

From the pyramids to the space station, Hoover Dam to the Golden Gate Bridge, civil engineers leave their mark on the world. They are responsible for skyscrapers, sports arenas, housing facilities, roads, highways, bridges, dams, lakes, tunnels, airport terminals and runways, rocket-launching support structures, and space stations. Without these projects, as well as air- and water-pollution control systems, solid and hazardous waste disposal facilities, water and waste treatment facilities, sewer and water supply networks, drainage and irrigation systems and land reclamation from the sea, all civil engineering projects, what would our civilization be like?

The Civil and Environmental Engineering Department prepares our students to meet the challenges of the projects mentioned above. Students in the program develop a clear and deep understanding in the areas of structural, environmental, water resources, transportation and geotechnical engineering. They also study planning, surveying, and construction.

Students develop insights into the physical, economical, sociological, and political constraints which must be considered in engineering analysis and design. Upon completion of the program our engineers are able to make a smooth transition to civil engineering practice and research.

Program Objectives

The objectives of the Civil Engineering program are consistent with the mission statements and guiding principles of the college and the university. The objectives are to produce graduates who within two to five years after graduation:

1. communicate verbally and in writing effectively
2. demonstrate progressive technical competency
3. acquire and maintain professional registration(s)
4. participate and/or lead as an engineering team member
5. meet realistic project schedule deadlines and budget constraints consistently
6. continue professional growth through activities such as continuing education, graduate school, activities in professional societies and community involvement
7. make decisions that include ethical and societal considerations
8. demonstrate critical thinking skills

The objectives listed above are consonant with our accrediting agency, i.e., the Accreditation Board for Engineering and Technology (ABET).

Special Notes

3-C Policy: Civil Engineering students must earn a grade of C or better in ESC 201, ESC 211 and CVE 360 before registering for any higher-level course for which any of these three courses are a prerequisite.

2-D Rule in CVE courses: Students are limited to two grades of D in Civil Engineering courses and Civil Engineering technical electives to be eligible for graduation.

Required Civil Engineering Technical Electives: The two required Civil Engineering technical electives must be selected from the available 400-level civil engineering courses. (Note that CVE 450 is for non-engineers in the Environmental Science and Environmental Master's degree program, and should not be taken by Civil Engineering students. It cannot be used as a Civil Engineering technical elective. CVE 451 through CVE 454 are part of the Surveying Certificate Program, and cannot be used as Civil Engineering technical electives.)

ESC 100 New Student Orientation is not required for transfer students.

CSC 121 Career Orientation is required for students in the Co-Op program.

When used as a course prerequisite, Senior Standing means that all required Engineering College and Civil Engineering courses through the junior year must be completed.

Recommended Program for Civil Engineering Major

First Year, Fall Semester Credits	Credits
ENG 101 English I	3
MTH 181 Calculus I	4
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Laboratory I	1
ESC 120 Introduction to Engineering Design	2
ESC 100 New Student Orientation (Not required for transfer students)	1
Total	**15**

First Year, Spring Semester	**Credits**
ESC 102 Technical Writing	3
MTH 182 Calculus II	4
PHY 241 University Physics I	5
GenEd Elective	3
GEO 100 Introduction to Geology	3
CSC 121 Career Orientation (Required for Co-Op)	1
Total (not including Co-Op)	**18**
Second Year, Fall Semester	**Credits**
MTH 283 Multivariable Calculus for Engineers	2
PHY 242 University Physics II	5
ESC 201 Statics	3
ESC 250 Differential Equations for Engineers	3
CVE 211 Surveying	3
CVE 212 Intro of Measurements & Numerical Methods for Civil Engineers	2
Total	**18**
Second Year, Spring Semester	**Credits**
ESC 211 Strength of Materials	3
CVE 310 Strength of Materials Laboratory	2
CVE 360 Mechanics of Fluids and Basic Thermal System for Civil Engineers	4
ESC 200 Engineering History & Heritage	3
ESC 282 Engineering Economy	3
Total	**15**
Third Year, Fall Semester	**Credits**
ESC 202 Dynamics	3
CVE 312 Structural Analysis I	3
CVE 361 Hydraulic Engineering	3

CVE 362 Hydraulics Lab	2
CVE 371 Environmental Engineering I	3
CVE 374 Environmental Engineering Lab	2
Total	**16**
Third Year, Spring Semester	**Credits**
CVE 331 Introduction to Geotechnical Eng.	3
CVE 332 Geotechnical Engineering Lab	2
CVE 446 Transportation Engineering	3
CVE 461 Hydrologic Analysis	3
CVE 322 Structural Steel Design	3
Total	**14**
Fourth Year, Fall Semester	**Credits**
CVE 422 Reinforced Concrete Design	3
CVE 429 Foundation Engineering	3
GenEd Elective	3
CVE 426 Preliminary Design (SPAC)	2
PHL 215 Engineering Ethics (WAC)	3
GenEd Elective	3
Total	**17**
Fourth Year, Spring Semester	**Credits**
CVE 403 Construction Planning and Estimating	3
CVE 427 Capstone Design (WAC)	2
Civil Engineering Technical Elective	3
Civil Engineering Technical Elective	3
GenEd Elective	3
Total	**14**

Computer Engineering

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Computer Engineering (B.C.E.)
At-a-Glance

Minimum hours required for the degree: 126. This does not include credits earned in the Engineering Cooperative Education Program and Orientation.

Admission to major: Admission to the Fenn College of Engineering.

Hours required for minor: There is no authorized minor in the Computer Engineering Program.

Evening Program: There is no evening program in Computer Engineering.

Accelerated 5-Year Bachelor/Master Program: An accelerated program that enables students to earn a Bachelor of Electrical or Computer Engineering degree as well as a Master of Science in Electrical Engineering in 5 years.

Advising: All students are advised by the faculty member currently serving as the departmental undergraduate adviser in the Department of Electrical and Computer Engineering. Phone: 216-687-2589.

Student organizations: Institute of Electrical and Electronics Engineers; Eta Kappa Nu - Honor Society for Electrical Engineering and Computer Engineering.

Additional information: Students in the Computer Engineering Program choose areas of interest from technical electives in the senior year.

The Computer Engineering Program is a program in the Department of Electrical and Computer Engineering. The Computer Engineering Program emphasizes the use of computers in engineering systems and interfacing of computers to physical systems; it is intended for those preparing to enter industry as well as those who wish to pursue graduate degrees in computer engineering, electrical engineering, software engineering, or computer science.

The program includes a spectrum of courses and considerable laboratory experience. In addition, depth in computer engineering is provided by technical electives. This program is supported by the Department of Computer and Information Science.

Program Objectives

The Computer Engineering Program is designed to produce graduates who are able to

1. practice computer engineering
2. define and diagnose problems, and provide and implement computer engineering solutions in industry, business, and government
3. observe engineering ethics in the practice of computer engineering
4. communicate effectively with technically diverse audiences
5. collaborate with others as a member or as a leader in an engineering team
6. develop their knowledge beyond the undergraduate level and keep current with advancements in computer engineering

Computer Engineering students are limited to two grades of D in EEC courses. Technical electives must be chosen from the available EEC elective courses.

Program for Computer Engineering

First Year, Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Laboratory I	1
ENG 100 Intensive College Writing **OR** ENG 101 College Writing	3
MTH 181 Calculus I	4
ESC 120 Introduction to Engineering Design	2
ESC 100 New Student Orientation* *Not required for transfer students*	1
Total	14-15
First Year, Spring Semester	**Credits**
CIS 260 Introduction to Programming	4
CSC 121 Career Orientation** ***Required for co-op*	1
ENG 102 English II or ESC 102 Technical Writing	3
MTH 182 Calculus II	4
PHY 243 University Physics I (Writing)	5
Total	16-17
Second Year, Fall Semester	**Credits**
EEC 310 Electric Circuits I	4
ESC 250 Differential Equations for Engineers	3
CIS 265 Data Structures and Algorithms	4

MTH 284 Matrices for Engineers	2
PHY 244 University Physics II (Writing)	5
Total	18
Second Year, Spring Semester	**Credits**
CIS 340 C/C++ for Systems Programming	2
EEC 311 Electric Circuits II	4
EEC 313 Electronics I	4
EEC 382 Digital Systems and Lab	4
General Education Elective	3
Total	17
Third Year, Fall Semester	**Credits**
CIS 345 Operating System Principles	4
EEC 316 Electronic Devices Laboratory	1
EEC487 Advanced Digital Systems	4
General Education Elective	3
EEC 414 Writing in Electrical and Computer Engineering	2
Total	14
Third Year, Spring Semester	**Credits**
General Education Elective	3
EEC 483 Computer Organization	4
ESC 282 Engineering Economy	3
MTH 220 Discrete Mathematics	4
PHL 215 Engineering Ethics (Writing)	3
Total	17
Fourth Year, Fall Semester	**Credits**

ESC 310 Engineering Statistics and Probability	3
EEC 488 Advanced Digital Lab	4
EEC 484 Computer Networks	4
EEC 421 Software Engineering	4
Total	15
Fourth Year, Spring Semester	**Credits**
EEC 490 Senior Design	4
EEC Technical Elective	4
EEC Technical Elective	4
General Education Elective	3
Total	15

5-Year Bachelor/Master Accelerated Program

The five-year Bachelor/Master program is designed to attract the best current undergraduate students. The program is designed for students who demonstrate an interest in, and ability for, additional education beyond the bachelor's degree. Students will have the opportunity to enroll in graduate courses during their third (junior) and fourth (senior) year of study.

Application to the program:

Only enrolled CSU undergraduate Electrical and Computer Engineering students are eligible to apply for the Accelerated Bachelor/Master Program in Electrical Engineering. Students are eligible to apply after they have completed 60 credit hours, with at least 30 credit hours earned at CSU. To be eligible for admission to the program, the student must have

- shown significant progress in their degree program,
- a cumulative grade-point average of 3.25 or higher, and
- completed sixty credit hours, with at least 30 credit hours earned at CSU.

Application Process:

Students who wish to be considered for admission must complete and submit an application package to the Graduate Program Director of the Electrical and Computer Engineering Master's Programs. A complete application must include

- the Bachelor/Master Accelerated Program Application form,
- two recommendation letters from ECE faculty, and
- a one- to two-page written statement describing why and how this program will enhance the student's scholarly and career goals.

Program Details:

Students admitted to the joint, five-year Bachelor/Master program retain undergraduate status until they meet the requirements for the bachelor's degree, at which point they will receive the BEE or BCE degree. Once admitted to the combined program, the student **may complete up to 12 credit hours of graduate courses** while enrolled in the undergraduate program. **These 12 credit-hours count toward both the undergraduate degree and the graduate degree requirements, either as electives or requirements**. Upon receipt of the bachelor's degree, students who have a 3.0 or better average in their graduate courses will be guaranteed admission to the Graduate Program. They will have up to 12 hours of graduate coursework (and grades) placed on their graduate transcripts. Student must attend the next regular semester after receiving the undergraduate degree as a graduate student to continue in the program. Graduate students must maintain a GPA of at least 3.0 to remain in the program.

Honors students

The 500-level courses that are already counted as honors credits can be counted to satisfy the requirement of 12 credits of graduate courses of this program.

Electrical Engineering

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Electrical Engineering (B.E.E.)

At-a-Glance

Minimum hours required for the degree: 128. This does not include credits earned in the Engineering Cooperative Education Program and Orientation.

Admission to major: Admission to the Fenn College of Engineering.

Hours required for minor: There is no authorized minor in the Electrical Engineering Program.

Evening Program: There is no evening program in Electrical Engineering, although some courses are offered in the evening.

Accelerated 5-Year Bachelor/Master Program: An accelerated program that enables students to earn a Bachelor of Electrical or Computer Engineering degree as well as a Master of Science in Electrical Engineering in 5 years.

Advising: All students are advised by the faculty member currently serving as the departmental undergraduate adviser in the Department of Electrical and Computer Engineering. Phone: 216-687-2589.

Student organizations: Institute of Electrical and Electronics Engineers; Eta Kappa Nu - Honor Society for Electrical Engineering and Computer Engineering.

Additional information: Students in the Electrical Engineering Program choose areas of interest from technical electives in the senior year.

The Electrical Engineering Program is a program in the Department of Electrical and Computer Engineering. Electrical engineering provides a variety of opportunities in work related to digital computers, electronics, control systems, communication systems, power electronics and systems, and other areas. The electrical engineering curriculum is intended to provide students with a background suitable for either industrial employment or advanced education at the graduate level. The program includes a spectrum of courses and considerable laboratory experience. In addition, depth in areas of specialization within electrical engineering is provided by several technical electives.

Program Objectives

The Electrical Engineering Program is designed to produce graduates who are able to

1. practice electrical engineering in one or more of the following areas: communications computers, controls, power electronics, and power systems
2. define and diagnose problems and provide and implement electrical engineering solutions in industry, business, and government
3. observe engineering ethics in the practice of electrical engineering
4. communicate effectively with technically diverse audiences
5. collaborate with others as a member or as a leader in an engineering team
6. develop their knowledge beyond the undergraduate level and keep current with advancements in electrical engineering

Electrical Engineering students are limited to two grades of D in EEC courses. Technical electives must be chosen from the available EEC elective courses.

Program for Electrical Engineering

First Year, Fall Semester	**Credits**
CHM 261General Chemistry I	4
CHM 266 General Chemistry Laboratory I	1
ENG 100 Intensive College Writing **OR** ENG 101 College Writing	3
MTH 181 Calculus I	4
ESC 120 Introduction to Engineering Design	2
ESC 100 New Student Orientation *Not required for transfer students*	1
Total	14-15
First Year, Spring Semester	**Credits**
CSC 121 Career Orientation *Required for co-op*	1
ENG 102 English II or ESC 102 Technical Writing	3
ESC 151 ANSI C	3
MTH 182 Calculus II	4
PHY 243 University Physics I (Writing)	5
Total	15-16
Second Year, Fall Semester	**Credits**
EEC 310 Electric Circuits I	4
ESC 250 Differential Equations for Engineers	3
MTH 283 Multivariable Calc. For Engineers	2
MTH 284 Matrices for Engineers	2

PHY 244 University Physics II (Writing)	5
General Education Elective	3
Total	19
Second Year, Spring Semester	**Credits**
EEC 311 Electric Circuits II	4
EEC 313 Electronics I	4
ESC 310 Engineering Statistics & Probability	3
General Education Elective	3
EEC 312 Circuits Lab	2
Total	16
Third Year, Fall Semester	**Credits**
EEC 314 Electronics II	4
EEC 315 Electronics Lab	2
EEC 361 Electromechanical Energy Conversion	4
EEC 382 Digital Systems and Lab	4
EEC 414 Writing in Electrical and Computer Engineering	*2*
Total	16
Third Year, Spring Semester	**Credits**
ESC 203 Statics & Dynamics	4
ESC 282 Engineering Economy	3
PHL 215 Engineering Ethics (Writing)	3
EEC460 Engineering Electromagnetics	4
General Education Elective	3
Total	17
Fourth Year, Fall Semester	**Credits**
Core Elective I	4
Core Lab I	2

Core Elective II	4
Core Lab II	2
EEC Technical Elective	4
Total	16
Fourth Year, Spring Semester	**Credits**
EEC 490 Senior Design	4
EEC Technical Elective	4
EEC Technical Elective	4
General Education Elective	3
Total	15

Two Core Elective/Lab sets should be selected from the following three areas:
Communications: EEC450/EEC451
Controls: EEC440/EEC441
Power Electronics: EEC470/EEC471

5-Year Bachelor/Master Accelerated Program

The five-year Bachelor/Master program is designed to attract the best current undergraduate students. The program is designed for students who demonstrate an interest in, and ability for, additional education beyond the bachelor's degree. Students will have the opportunity to enroll in graduate courses during their third (junior) and fourth (senior) year of study.

Application to the program:

Only enrolled CSU undergraduate Electrical and Computer Engineering students are eligible to apply for the Accelerated Bachelor/Master Program in Electrical Engineering. Students are eligible to apply after they have completed 60 credit hours, with at least 30 credit hours earned at CSU. To be eligible for admission to the program, the student must have

- shown significant progress in their degree program,
- a cumulative grade-point average of 3.25 or higher, and
- completed sixty credit hours, with at least 30 credit hours earned at CSU.

Application Process:

Students who wish to be considered for admission must complete and submit an application package to the Graduate Program Director of the Electrical and Computer Engineering Master's Programs. A complete application must include

- the Bachelor/Master Accelerated Program Application form,
- two recommendation letters from ECE faculty, and
- a one- to two-page written statement describing why and how this program will enhance the student's scholarly and career goals.

Program Details:

Students admitted to the joint, five-year Bachelor/Master program retain undergraduate status until they meet the requirements for the bachelor's degree, at which point they will receive the BEE or BCE degree. Once admitted to the combined program, the student **may complete up to 12 credit hours of graduate courses** while enrolled in the undergraduate program. **These 12 credit-hours count toward both the undergraduate degree and the graduate degree requirements, either as electives or requirements**. Upon receipt of the bachelor's degree, students who have a 3.0 or better average in their graduate courses will be guaranteed admission to the Graduate Program. They will have up to 12 hours of graduate coursework (and grades) placed on their graduate transcripts. Student must attend the next regular semester after receiving the undergraduate degree as a graduate student to continue in the program. Graduate students must maintain a GPA of at least 3.0 to remain in the program.

Honors students

500-level courses that are already counted as honors credits can be counted to satisfy the requirement of 12 credits of graduate courses of this program.

Mechanical Engineering

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Mechanical Engineering (B.M.E.)

At-a-Glance

Minimum hours required for degree: 136 (not including credits earned in the Engineering Cooperative Education Program)

Admission to major: Students may select the Mechanical Engineering major once they have been admitted to the Engineering College.

Hours required for minor: There is no authorized minor in the Mechanical Engineering Program.

Evening program: The Mechanical Engineering evening program offers courses on a two-year cycle.

Advising: A designated faculty member advises students each semester during advising week. Phone: 216-687-2567

Student organizations: American Society of Mechanical Engineers, Society of Automotive Engineers, and American Institute for Aeronautics and Astronautics

The professional work of the mechanical engineer falls into three general areas: design, research and development, and management of technical activities. The mechanical engineer draws upon a broad educational background (which includes energy and structures/motion in mechanical systems) and works in diverse areas of employment. Mechanical engineers deal with product design, manufacturing techniques, energy utilization and conversion, thermal system design, and system control. The industries utilizing the mechanical engineer's talents range from automotive, manufacturing, and power generation to aerospace, cryogenic, oceanographic, robotic, and bioengineering sectors.

Young engineers usually begin their career performing design-oriented tasks. As they gain experience and professional maturity, they take on the technical direction of activities that cut across several disciplines. Moreover, they must lay the groundwork for their personal development as productive members of society, responsive to its needs and capable of assuming leadership positions.

The Mechanical Engineering curriculum reflects the special skills needed for this engineering profession. The curriculum goes beyond the specific technological needs of the field to prepare students for the changing nature of their work and a lifetime of learning. The university course structure blends study in the humanities, social sciences, and the physical and engineering sciences with study in the technical aspects of mechanical engineering. The Cooperative Education Program provides practical engineering experience during the program of study and is highly recommended since it brings students into intimate contact with engineering and aids in career development.

Program Objectives:

The Mechanical Engineering Program is designed to produce graduates who:

1. Practice mechanical engineering in fluid thermal/energy conversion and machine system stems of the discipline in private, government, or industrial organizations.
2. Practice mechanical engineering in environments that require a variety of roles including engineering problem definition, application of advanced methods of analysis, problem diagnosing, and solution of real-world engineering design problems that are subject to marketplace constraints such as cost, safety, etc.
3. Actively contribute in a multidisciplinary engineering environment.
4. Enhance their knowledge beyond the B.S. level and remain current with advancements in engineering and technology through a commitment to lifelong learning.

Program of Study for Mechanical Engineering

First Year, Fall Semester	**Credits**
ENG 100 Intensive College Writing **OR** ENG 101 College Writing	3
MTH 181 Calculus I	4
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Laboratory I	1
ESC 120 Introduction to Engineering Design	2
ESC 100 New Student Orientation *	1
Total	15
First Year, Spring Semester	**Credits**
ESC 102 Technical Writing and Professional Communication	3
MTH 182 Calculus II	4
PHY 241 University Physics I	5
ESC 151 C Programming	3
ESC 270 Materials Science	3
CSC 121 Career Orientation **	1
Total	18-19
Second Year, Fall Semester	**Credits**
ESC 250 Differential Equations for Engineers	3
PHY 242 University Physics II	5

ESC 201 Statics	3
IME 250 Material Processing and Metrology	3
IME 251 Material Processing and Metrology Laboratory	1
MTH 283 Multivariable Calculus	2
Total	17
Second Year, Spring Semester	**Credits**
ESC 350 Linear Algebra & Numerical Methods in Engineering	3
MCE 255 Computer-Aided-Engineering Design	4
ESC 202 Dynamics	3
ESC 211 Strength of Material	3
ESC 315 Electrical Engineering Concepts	3
Total	16
Third Year, Fall Semester	**Credits**
MCE 305 Kinematics and Dynamics of Machinery	4
ESC 301 Fluid Mechanics	3
ESC 321 Thermodynamics I	3
MCE 371 Vibrations	4
ESC 310 Engineering Statistics and Probability	3
Total	17
Third Year, Spring Semester	**Credits**
MCE 324 Introduction to Heat Transfer	4
MCE 367 Machine Design I	4
MCE 380 Instrumentation and Measurements Lab	3
MCE 421 Applied Thermodynamics	4
GenEd Elective	3
Total	18
Fourth Year, Fall Semester	**Credits**
MCE 450 Design Project I (WAC, SPAC, Capstone)	2

ESC 282 Engineering Economy	3
MCE 441 Introduction to Linear Control Systems	4
PHL 215 Engineering Ethics (Writing)	3
MCE Lab Elective	3
GenEd Elective	3
Total	18
Fourth Year, Spring Semester	**Credits**
MCE 451 Design Project II (WAC, SPAC, Capstone)	2
MCE Elective	4
MCE Elective	4
GenEd Elective	3
GenEd Elective	3
Total	16

**Not required for transfer students.*

***Optional course. Required by co-op program.*

Mechanical Engineering students are limited to a total of two grades of D in ESC and MCE courses.

MCE Electives:

Three MCE elective courses (including one lab) are required to focus the student's abilities in specific technical areas and provide advanced, application-oriented instruction. The MCE elective courses are listed below.

- MCE 403 Modeling and Simulation of Mechatronic Systems
- MCE 424 Applied Heat Transfer
- MCE 425 HVAC
- MCE 430 Applied Fluid Mechanics
- MCE 444 Applied Combustion Processes
- MCE 445 Modern Controls
- MCE 446 Principles of Turbomachinery with Applications
- MCE 465 Advanced Machine Analysis
- MCE 467 Lubrication and Bearing Design
- MCE 483 Thermal Systems Laboratory
- MCE 484 Mechanical Systems Control Laboratory
- MCE 485 Fluid Power Systems Laboratory
- MCE 493 Special Topics
- MCE 496 Independent Study

Engineering Technology

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Engineering Technology (B.S.)

At-a-Glance

Degrees Granted: Bachelor of Science in Electronic Engineering Technology (BSEET) and Bachelor of Science in Mechanical Engineering Technology (BSMET)

Minimum Hours Required for Degree: 129 semester hours (Includes approximately 64 semester credit hours transferred with the Associate of Applied Science degree). This minimum may be reduced by transfer credits equivalent to certain major-field requirements.

Admission to Major: Completion of the Associate of Applied Science (AAS) degree in Electronic Engineering Technology or Mechanical Engineering Technology from a regionally accredited community college, accredited technical institute, or university branch; or completion of the equivalent to major field coursework normally found in AAS degree programs in Electronics Engineering Technology or Mechanical Engineering Technology.

Advising: Contact the department chairperson. Phone: 216-687-2559

Student Organization: Federation of Engineering Technology Students (FETS), and American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE).

Additional Information:

The Engineering Technology Department offers two degree programs, leading to a Bachelor of Science in Electronic Engineering Technology (BSEET) or Bachelor of Science in Mechanical Engineering Technology (BSMET). These are junior- and senior-year level baccalaureate degree programs; students must complete the coursework equivalent to an Associate of Applied Science (AAS) degree in electronic or mechanical engineering technology from an accredited college, university or technical institute before beginning to complete the upper two-year courses in the program. Qualified Cleveland State University students who major in a discipline other than Engineering Technology may apply to enroll in upper-division courses.

The 2 + 2 program's primary goal is to provide the student with sufficient skills to obtain immediate employment after completion of the associate degree, while providing a path for furthering education and career opportunities with the completion of the bachelor of science degree.

Engineering Technology students are limited to two grades of D in their major courses to be eligible for graduation.

Students in Engineering Technology may select an option in Robotics requiring them to choose technical elective courses from the list of courses that focuses on that area.

A Bachelor of Science in Engineering Technology graduate is qualified to work in positions requiring the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities.

Cleveland State's Engineering Technology graduates are employed in a diverse range of industries. Most importantly, the programs prepare graduates to contribute immediately in these industries.

Electronic Engineering Technology

Full-Time Program for Electronic Engineering Technology

Fifth Semester, Fall	**Credits**
EET 315 Microprocessors and Digital System Design	3
EET 316 Microprocessors and Digital System Design Lab	1
MTT 300 Applied Math	4
GET 310 Computer System Technology	3
*Adviser's List	9
Total	20
Sixth Semester, Spring	**Credits**
MTT 301 Advanced Applied Math	4
EET 320 Embedded Microprocessor Systems	3
EET 321 Embedded Microprocessor Systems Lab	1
EET 330 Advanced Circuit Analysis	3
*Adviser's List	9
Total	20
Seventh Semester, Fall	**Credits**
EET 410 Power Elect. Systems	3
EET 411 Power Elect. Systems Lab	1
EET 415 Electronic Circuits, Signals, and Systems	3
EET 416 Electronic Circuits, Signals, and Systems Lab	1
EET 430 Applications of FPGA and VHDL	3
EET 460 Senior Design A	1
*Adviser's List	6
Total	18

Eighth Semester, Spring	**Credits**
EET 440 Feedback Control Systems	3
EET 441 Feedback Control Systems Lab	1
EET 480 Senior Design B	3
GET 440 Applications of PLCs	4
*Adviser's List	6
Total	17
Program Total	**75**

Part-Time Program for Electronic Engineering Technology

Fifth Semester, Fall	**Credits**
EET 315 Microprocessors and Digital System Design	3
EET 316 Microprocessors and Digital System Design Lab	1
MTT 300 Applied Math	4
*Adviser's List	3
Total	11
Sixth Semester, Spring	**Credits**
MTT 301 Advanced Applied Math	4
EET 320 Embedded Microprocessor Systems	3
EET 321 Embedded Microprocessor Systems Lab	1
*Adviser's List	3
Total	11
Seventh Semester, Fall	**Credits**
GET 310 Computer System Technology	3
*Adviser's List	6
Total	9
Eighth Semester, Spring	**Credits**
EET 330 Advanced Circuit Analysis	3

*Adviser's List	6
Total	9
Ninth Semester, Fall	**Credits**
EET 410 Power Electronics Systems	3
EET 411 Power Electronics Systems Lab	1
EET 430 Applications of FPGA	3
Total	7
Tenth Semester, Spring	**Credits**
EET 440 Feedback Control Systems	3
EET 441 Feedback Control Systems Lab	1
*Adviser's List	6
Total	10
Eleventh Semester, Fall	**Credits**
EET 415 Electronic Circuits, Signals, and Systems	3
EET 416 Electronic Circuits, Signals, and Systems Lab	1
EET 460 Senior Design A	1
*Adviser's List	6
Total	11
Twelfth Semester, Spring	**Credits**
EET 480 Senior Design B	3
GET 440 Applications of PLCs	4
Total	7
Program Total	**75**

Mechanical Engineering Technology

Full-Time Program for Mechanical Engineering Technology

Fifth Semester, Fall	**Credits**

MTT 300 Applied Math	4
MET 320 Advanced Mechanics of Materials	3
MET 345 Thermodynamics	4
*Adviser's List	9
Total	20
Sixth Semester, Spring	**Credits**
MTT 301 Advanced Applied Math	4
MET 330 Advanced Dynamics	4
MET 350 Fluid Mechanics	3
MET 351 Thermal Fluids Lab	2
*Adviser's List	6
Total	19
Seventh Semester, Fall	**Credits**
MET 410 Design of Machine Components	3
MET 411 Mechanical Measurements Lab	1
MET 420 Heat Transfer	3
MET 445 Solid Modeling Applications	3
MET 470 Senior design A	1
*Adviser's List	6
Total	17
Eighth Semester, Spring	**Credits**
GET 430 Electric Power, Controls, and Instrumentations	3
GET 431 Electric Power, Controls, and Instrumentations Lab	1
†AoC Selection	3
MET 480 Senior Design B	3
*Adviser's List	9
Total	19
Program Total	**75**

Part-Time Program for Mechanical Engineering Technology

Fifth Semester, Fall	**Credits**
MTT 300 Applied Math	4

MET 320 Advanced Mechanics of Materials	3
*Adviser's List	3
Total	10
Sixth Semester, Spring	**Credits**
MTT 301 Advanced Applied Math	4
MET 330 Advanced Dynamics	4
*Adviser's List	3
Total	11
Seventh Semester, Fall	**Credits**
MET 345 Thermodynamics	4
*Adviser's List	6
Total	10
Eighth Semester, Spring	**Credits**
MET 350 Fluid Mechanics	3
MET 351 Thermal Fluids Lab	2
*Adviser's List	3
Total	8
Ninth Semester, Fall	**Credits**
MET 410 Design of Machine Components	3
MET 411 Mechanical Measurements Lab	1
MET 420 Heat Transfer	3
Total	7
Tenth Semester, Spring	**Credits**
GET 430 Electric Power, Controls, and Instrumentations	3
GET 431 Electric Power, Controls, and Instrumentations Lab	1

AoC Selection	3
*Adviser's List	3
Total	10
Eleventh Semester, Fall	**Credits**
MET 445 Solid Modeling Applications	3
MET 470 Senior Design A	1
*Adviser's List	6
Total	10
Twelfth Semester, Spring	**Credits**
MET 480 Senior Design B	3
*Adviser's List	6
Total	9
Program Total	**75**

†Area of Concentration (AoC):

Students must select one of the following courses based on desired area of concentration:

- MET 450 Mechanical System Design
- MET 460 Thermal System Design
- GET 455 Robotic System Design

The Adviser's List

The Adviser's List is comprised of the following:

1. Technical Electives—3 courses
   (9-12 credits)
2. Basic Science Elective—4 credits
3. Communications Elective—3 credits
4. University General Education (GenEd) Requirements—9 credits
5. Business Elective — 3 credits
6. Programming Elective — 3 credits

The Engineering Technology Department adviser specifies items 1 and 2. See your adviser to obtain a current listing of applicable courses.

Items 1 and 6 may vary in the number of credits required, if any, depending upon what courses transferred. See your Engineering Technology Department adviser to find out what is applicable.

Fenn College of Engineering: Certificate Programs

On this page:

- Back to Engineering Certificates
- Description
- Required Courses
- Go to Department of Chemical and Biomedical Engineering

Biotechnology: Engineering Track (Certificate)

The certificate program in Biotechnology is aimed at students who plan to enter the workforce within the field of biotechnology. The program is designed to complement a bachelor's or master's degree that a student is in the process of completing or has already obtained. The Engineering track prepares students to work within the research and manufacturing segments of biotechnology companies.

Although any student may enroll in the Biotechnology certificate program as long as he or she meets the prerequisites, the Engineering track integrates most smoothly with a major in Chemical Engineering.

Requirements for the Certificate in Biotechnology: Engineering Track

(17-19 credit hours)

Prerequisites: students must be either currently majoring in Chemical Engineering, or taking college course work that includes the following:

- one year of general chemistry,
- two years of calculus and advanced mathematics, *and*
- courses in thermodynamics and material and energy balance.

In addition, the following sequence must also be completed:

- CHE 466 Biochemical Engineering (3 credits)
  [*Prerequisite: CHE 306 Transport Phenomena*
  and pre- or corequisite: CHE 404 Chemical Reactor Design]
- CHE 496 Chemical and Biomedical Engineering Project (3 credits)
- BIO 306 Biochemistry and Molecular Biology (4 credits) *or* CHM 402 Biochemistry (3 credits)
- BIO 308/309 Cell Biology and Laboratory (4 credits)
- BIO 416/417 Microbiology Lab (5 credits) *or* BIO 435 Techniques in Molecular Biology (4 credits)

Contact the Department of Chemical and Biomedical Engineering at 216-687-2571 for additional information. See also the alternate tracks in the Department of Biological, Geological and Environmental Sciences and the Department of Operations and Supply Chain Management.

College of Liberal Arts and Social Sciences

On this page:

- Back
- Introduction
- Academic Philosophy
- Academic Procedures
- General Requirements
- Academic Policies
- Interdisciplinary Specialization
- Interdisciplinary Minors
- Arabic Minor
- Dance Minor
- German Minor
- Certificate Programs
- Special Educational Opportunities
- Listing of Degrees, Interdisciplinary Specializations and Minors, and Certificate Programs
- Major Programs Leading to a Bachelor's Degree
- Go to Liberal Arts and Social Sciences website

Introduction

Studies in the College of Liberal Arts and Social Sciences will prepare individuals to face a lifetime of challenging situations. The college encompasses a wide spectrum of departments in the humanities, the fine and performing arts, and the social sciences. By completing course work in a major field of interest, as well as in a variety of other subject areas, students acquire the analytical, communication, and problem-solving skills vital to critical thinking. Furthermore, students are exposed to diverse points of view and academic disciplines. These can help form values and outlooks conducive to a meaningful life, a rewarding career, and learning and intellectual growth in the future.

Web site: www.csuohio.edu/class

Academic Philosophy

The basic mission of CLASS is vitally important to the university. The subjects that our faculty study and teach are the heart of a well-rounded education. Human nature is the unifying focus of our disciplines. The *social sciences* study how human beings function in groups, how groups and societies interact with each other, and how groups empower or marginalize individuals or subgroups. The *humanities* explore how humans perceive themselves and the world, how belief systems and values inform the judgments and the choices people make, and how we communicate. And the *fine arts* reveal humans at their most creative—in their ability to shape and transform how we see, hear, and order the world around us. Such knowledge is fundamental to a high quality of life. It helps us become more culturally alive, and it also gives us the broad intellectual resources to help us analyze complex problems and to make difficult moral and social choices. In addition, it prepares us to earn a living. Indeed, because the economy is changing rapidly, the specific jobs skills of today may not be the same as those required tomorrow. An education in the liberal arts and social sciences, which prepares students with broad knowledge and transferable skills, is most likely to help students not only to find a place in the current economy but also to create new places for themselves as the economy grows and changes.

Academic Procedures

- Introduction
- Selecting and Declaring a Major
- Evening Majors

Introduction

- Go to CLASS Advising Center website

All students are strongly encouraged to consult with an academic adviser on a regular basis. The CLASS Advising Center is located in Room 279 of the Chester Building and can be contacted at 216-687-5040.

The advising staff will provide a wide range of services including information on college and university graduation requirements, information on academic regulations, evaluation of transfer credit, assistance in planning a course schedule, and help in preparing student petitions.

After declaring a major, students should meet regularly with their major-field adviser to discuss course selection and long-range academic and career plans.

Selecting and Declaring a Major

Although Liberal Arts and Social Sciences students must declare a major by the beginning of their junior year, they are encouraged to declare their major as soon as possible. By doing so, students are put into contact with the faculty members who will become their major-field advisers and mentors. By declaring a major early, students will also have more opportunities to work with faculty members and to participate in either the research or creative activities of their academic department.

Major programs may differ in the number and nature of credit hours required. In selecting a major, students should consider their own interests, aptitudes, and professional aspirations. Also, students should pay close attention to university, college, and major-field requirements and plan a schedule to ensure that they do not unnecessarily extend the period of time it takes to complete a degree.

To declare a major, contact the CLASS Advising Center, Chester Building Room 279, 216-687-5040.

Evening Majors

The College of Liberal Arts and Social Sciences offers majors for evening students in three areas: Communication, History, and Political Science. Requirements for these majors, which are the same as those of the day majors, can be found under the heading of each individual department.

Before declaring a major in the evening program, a student should consult with the chairperson of the major department to determine the pattern and frequency of offerings of evening courses. A student should also meet with a faculty adviser on a regular basis to discuss course selections, prepare a timetable for completing degree requirements, and receive advising on educational and career goals.

If a particular major field is not offered in the evening, contact the chairperson of the department to explore if possible alternatives exist.

College of Liberal Arts and Social Sciences

General Requirements

- Introduction
- GenEd Semester Requirements for the College of Liberal Arts and Social Sciences
- Foreign Language or Foreign Culture Requirement
- Other Requirements

Introduction

The faculty of the College of Liberal Arts and Social Sciences awards its degrees to students who meet the following general requirements:

Successful completion of a minimum of 128 semester credit hours, of which 42 semester credit hours must be earned in 300- and/or 400-level courses. (Transfer students: See note on Other Requirements below.) Credit toward the degree must be earned in: (1) introductory and advanced college courses in the liberal arts and social sciences, (2) those practical and technical courses taught by the departments of this university, and (3) those practical and technical courses acceptable to the departments and curricula of the College of Liberal Arts and Social Sciences.

Fulfillment of all university GenEd requirements. (See section on University Requirements in the chapter on University Regulations.)

Achievement of a minimum cumulative grade-point average of 2.00 and other specifications as noted in the section on Graduation Requirements in the chapter on University Regulations.

Completion of the requirements, as set forth in this catalog, for a major field in the College of Liberal Arts and Social Sciences.

Achievement of a minimum cumulative grade-point average of 2.00 in a major program in the College of Liberal Arts and Social Sciences. (Note: A minimum grade-point average higher than 2.00 may be required by a department. Students must meet the requirements as specified by their major department.)

GenEd Semester Requirements for the College of Liberal Arts and Social Sciences

See section on University GenEd Requirements at http://www.csuohio.edu/undergradcatalog/geninfo/regs/regs-gened.htm.

Foreign Language or Foreign Culture Requirement

Students completing three years or more of a single foreign language in high school will have fulfilled this requirement.

The state entrance requirement is two years of a single foreign language in high school or the equivalent (one year of university study). Students who graduated from high school prior to 1987 are exempt from this requirement.

Bachelor of Arts:

All students seeking the B.A. degree must complete two courses in a single foreign language beyond the state entrance requirement. (See above). Students who graduated from high school prior to 1987 without taking a

foreign language who are exempt from the state Foreign Language requirement may fulfill the college requirement by completing two foreign culture classes. Students should contact the CLASS Advising Center (Chester Building Room 279; 216-687-5040) for more information.

The two courses may be intermediate-level foreign-language courses in the same language used to meet the state entrance requirement. Or, students may complete two introductory-level foreign language skills courses in a single foreign language which is different from the one used to meet the state entrance requirement. Students should begin their language study at a level that reflects their current level of competency. Placement tests in French and Spanish and advising from Modern Langauges faculty can help determine the appropriate level. Students who repeat language courses taken in high school can count those credits toward graduation, but not toward the CLASS Foreign Language Requirement.

Bachelor of Music:

All students seeking a B. Mus. degree must complete two approved foreign culture courses (*see list*) or two courses in a foreign language beyond the state entrance requirement.

Other Requirements

Upper-Division Requirement:

42 semester credit hours.
(The College of Liberal Arts and Social Sciences requires that all students successfully complete a minimum of 42 semester credit hours at the 300- and/or 400-level. For transfer students, no more than 18 semester credit hours may be applied toward this requirement.)

Introduction to University Life:

1 semester credit hour.
(Must be successfully completed by all newly admitted freshmen. Not required for a transfer student.)

Total Minimum Number of Semester Credit Hours Required:

128 Semester Credit Hours.
(All students must successfully complete a minimum of 128 academic semester credit hours. However, please note that some degree programs may require more than the college minimum. Students must consult with their major-field program.)

College of Liberal Arts and Social Sciences

Academic Policies

- Earning a Second Degree
- Earning a Second Major
- Foreign Language Deficiency
- Late Adding a Course and Late Registration
- Maximum Registration
- Special Course Prerequisites
- Student Responsibility

Earning a Second Degree

A student who wants to earn a second baccalaureate degree must meet all requirements of the university, college, and department for the second degree and must earn a 2.00 GPA or better for those hours taken to apply to the second degree. The student may receive both degrees by applying and paying the graduation fee for each.

To earn a second baccalaureate degree, a student whose first baccalaureate degree was earned at another institution must complete all degree requirements of Cleveland State University, the College of Liberal Arts and Social Sciences, and the major-field department. Also, the student must fulfill the minimum credit-hour requirement and distribution for the university's Residency Requirement. (See chapter on University Regulations.)

A student may not earn the same baccalaureate degree twice: e.g., two B.A. degrees with different major fields. (See Earning a Second Major.) Also, a student majoring in Music cannot be awarded both the B.A. and B.Mus. degrees.

A student who seeks to earn a second degree in business, engineering or science must first apply to and be admitted into the College of Business Administration, the College of Engineering, or the College of Sciences and Health Professions. In such a case, a student will be matriculating in two colleges and will be subject to all of the requirements and regulations of each college.

Earning a Second Major

Students may elect to complete the requirements for two major fields, provided both majors lead to a Bachelor of Arts degree and are offered by departments in either the College of Liberal Arts and Social Sciences or the College of Sciences and Health Professions.

In order to have both majors recorded on the transcript, both majors must be listed on the student's Graduation Application. Only one baccalaureate degree will be conferred.

Students who wish to obtain a Bachelor of Arts degree, as well as a Bachelor of Science degree, need to earn a second degree. (See Earning a Second Degree.)

Foreign Language Deficiency

The Foreign Language Requirement applies to all undergraduate students, including those who are not native speakers of English and students for whom English is a second language (unless specifically exempted in the policy on Foreign Language Requirement; for example, post-baccalaureate students). Such students, if deficient in foreign language studies credits upon admission to Cleveland State University, may remove the

deficiency by completion of appropriate courses at Cleveland State (see policy on Foreign Language Deficiency) or by verification of appropriate knowledge of the language through the Department of Modern Languages at the university.

Verification of the student's knowledge of language and culture to remove the deficiency status will be assessed by a faculty member of the Department of Modern Languages who is proficient in the applicable language. In the event no faculty member is proficient in the student's non-English language, the student may request assessment by an individual outside the Department of Modern Languages who has been deemed qualified by said department to assess the student's knowledge of language and culture. Students should consult with the Department of Modern Languages for more information about criteria and guidelines for language and culture assessment.

Late Adding a Course and Late Registration

Students must complete the late registration process by the end of the first week of classes in the semester in which enrollment is sought. Students wishing to add a course after this deadline should refer to the academic calendar.

Maximum Registration

The privilege of carrying a maximum load of as high as 18 semester credits per term without petition is granted to any student with a sophomore or junior standing who has a cumulative grade-point average of 3.25 and to any senior who has a cumulative GPA of 3.00 or better.

Students who have less than the required grade-point average, or who wish to take more than18 credit hours, must submit a petition through the CLASS Advising Center in Chester Building Room 279.

Special Course Prerequisites

Courses at the 300- and 400- level in the College of Liberal Arts and Social Sciences may not be taken by freshmen except with the written permission of the course instructor.

Undergraduate students may be granted permission to take one or more graduate courses if all of the following conditions are met:

1. The student must be within 30 semester credit hours of graduation
2. The student must maintain an overall grade-point average of 2.75 or better through the preceding semester
3. The student must have a 3.00 grade-point average in the major field
4. The student must submit, at the time of registration, a completed Permission for an Undergraduate Student to Take a Graduate Course form
5. Postgraduate students should discuss the requirements for taking a graduate course with the College of Graduate Studies.

Course Withdrawal Policy

A student may withdraw from a course until the university’s published date for withdrawal. If circumstances beyond the student’s control arise which necessitate a withdrawal after this deadline, the student may submit a petition to the CLASS Committee on Academic Standards for consideration. The petition must state the specific reasons for withdrawal and include full documentation of the circumstances. The committee will not

consider petitions that do not include clear documentation. To initiate a petition, contact the CLASS Advising Center in Chester Building, Room 279.

Student Responsibility

Each student is solely responsible for meeting all curricular requirements and for knowing and following all academic regulations and policies of the College of Liberal Arts and Social Sciences, the university, and the major-field department. Students are urged to review all appropriate sections of this catalog, in particular the chapters on University Regulations and Academic Procedures and Academic Policies for the College of Liberal Arts and Social Sciences.

Petitions for a waiver of a requirement or for an exception to a regulation (either for the college or university) can be obtained from the CLASS Advising Center located in the Chester Building, Room 279. Petitions involving past courses must be filed no later than one calendar year from the month the course ended unless extraordinary circumstances, which must be fully documented, make this deadline impossible.

Although students are responsible for knowing and fulfilling graduation requirements and for knowing and following policies and regulations, they can benefit from advisers who are available to assist them. Whenever in doubt, a student should consult his or her academic adviser for assistance.

College of Liberal Arts and Social Sciences

In this section:

- Back to CLASS Page
- Description
- Required Courses
- Go to Communication website
- Go to Political Science website

Political Communication (Interdisciplinary Specialization)

Students majoring in communication and/or political science may select political communication as a specialization. The School of Communication and the Department of Political Science jointly administer the program, which provides students with a systematic and comprehensive orientation to political communication. This orientation will enable students to understand the role of communication in the political process.

Communication processes have always been critical to the evolution of American political institutions. Specific communication practices have helped to create support for a basic set of democratic norms and values, arouse interest and participation by various groups in the election of officeholders at all levels of government, facilitate involvement in and commitment to choices of solutions for social problems, and create support for a particular government regime and its programs.

Professionals operating in the American political process must be prepared to shape their personal impact and the impact of their decisions. It is to facilitate such an objective that this program was developed. The program should especially suit students planning careers in public administration; law; journalism; public information; or as political party organizers, elected officials, and campaign specialists.

Required Courses:

Students interested in this program need to obtain prior written approval from an adviser in the department of their major. Completion of the political communication sequence and the major requirements in one of the two departments involves a minimum of 40 to 44 semester credit hours. A 2.25 GPA must be maintained across all required courses. The specific requirements in addition to those for a major in one of the two departments are:

Communication Majors

1. **Required introductory courses**
    - COM 101 Principles of Communication
    - COM 226 Mass Media and Society
    - PSC 317 Political Parties and Elections
      AND EITHER
    - COM 303 Communication Inquiry
      OR
    - PSC 251 Introduction to Data Analysis
2. **Required advanced core courses**
    - PSC 319 Public Opinion
    - PSC 402 Campaign Politics Internship (four to six credit hours. Under special conditions an internship program may be substituted for PSC 402 with approval of the faculty committee.) The internship must be taken in conjunction with COM 493 Independent Study
    - COM 347 Political Communication
    - COM 455 Communication Campaigns

- COM 496 Independent Study (four semester credit hours; must be taken in conjunction with PSC 402)

Political Science Majors

1. **Required introductory core courses**
   - PSC 251 Introduction to Data Analysis
     OR
     COM 303 Communication Inquiry
     AND
   - PSC 317 Political Parties and Elections
   - COM 101 Principles of Communication
   - COM 455 Communication Campaigns
2. **Required advanced core courses**
   - PSC 319 Public Opinion
   - PSC 402 Campaign Politics Internship (6 credit hours. Under special conditions an internship program may be substituted for PSC 402 with approval of the faculty committee.)
   - COM 347 Political Communication

Electives

Students must complete the introductory core courses in these curricula before they may enroll in the internship program (PSC 402). Courses in the advanced core may be taken during the internship, though it is recommended that students complete PSC 319 and COM 347 before the fieldwork. In addition to the required courses, students must take at least one elective in communication and one in political science. Lists of recommended courses follow:

1. Recommended electives in Political Science:
   - PSC 301 Urban Politics and Policy
   - PSC 314 State Government and Politics
   - PSC 315 Public Policy and Administration
   - PSC 318 The Presidency and Congress
2. Recommended electives in Communication:
   - COM 341 Group Process and Leadership
   - COM 346 Communication in Organizations
   - COM 357 Principles of Public Relations
   - COM 366 Communication and Conflict
   - COM 370 Communication Technology and Social Change

The two departments will periodically schedule seminars at which faculty members and outside speakers will discuss relevant topics. Students focusing on political communication will be informed of the seminars and will be expected to attend.

Arabic Minor

The Arabic minor develops proficiency skills in speaking, reading, writing and understanding Modern Standard Arabic as well as cultural proficiency by introducing students to different aspects of the Arabic speaking world such as literature and film. Recognized as a critical language and linked to political and economic developments in the Middle East, as well as the internationalization of many businesses and professions, proficiency in Arabic is seen as increasingly valuable skill, and as preparation for a variety of different careers. As the fifth most widely spoken language in the world, as one of the official languages of the United Nations, and as the religious language of a quarter of the world's population, Arabic is also a language with a rich literary and cultural heritage that deserves to be studied in its own right.

The Department of Modern Languages offers Arabic language courses, advanced literature and culture courses in Arabic, and Arabic cultural studies courses taught in both Arabic and English. Students can choose Arabic to satisfy their foreign language requirements, and also count eight credits of Arabic language toward a minor in Middle Eastern Studies. Students are strongly encouraged to study abroad.

Students interested in the Arabic minor should contact the Department of Modern Languages by phone at 216-687-4645, by email at modlang@csuohio.edu or visit Rhodes Tower 1619.

Required Courses:

A minor in Arabic consists of a minimum of 20 credits, of which twelve must be at the 300-level or above. Up to eight hours of Special Topics credit may count toward the minor; however, no topic may be repeated for credit. The required core and elective courses are distributed as follows:

A- **Core courses (16 credits).**

1) 12 credits in Arabic language courses required beyond the 100 level:
   ARB 201 Intermediate Arabic I (4 credit hours)
   ARB 202 Intermediate Arabic II (4 credit hours)
   ARB 301 Conversation and Composition (4 credit hours)

2) One class required in Arabic (4 credits) that can be selected from the following:
   ARB 302 Writing and Media (4 credit hours)
   ARB 371 Introduction to Classical Arabic literature (4 credit hours)
   ARB 372 Introduction to Modern Arabic Literature (4 credit hours)

B- **One elective course (4 credits) that may be taught in English if cross-listed with an MLA course. Students may also substitute one of the two courses listed in A.2. not taken to fulfill the core.**
   ARB 380 Women in the Arab World (4 credit hours)
   ARB 335 Arab Film (4 credit hours)
   ARB 345 Arabic Resources of Cleveland/Service Learning Course (1-4 credits)
   ARB 393 Special Topics in Arabic (1-4 credit hours)
   ARB 394 Special Topics in Arabic (writing) (1-4 credit hours)
   ARB 493 Special Topics in Arabic (1-4 credit hours)
   ARB 494 Special Topics in Arabic (writing) 1-4 credit hours)

College of Liberal Arts and Social Sciences

Interdisciplinary Minors

The College of Liberal Arts and Social Sciences offers interdisciplinary minor programs of study which encompass course work from several college departments. Such minors are available in the following areas:

- American Studies
- Asian Studies
- Black Studies
- Criminal Justice (Department of Sociology)
- Middle Eastern Studies
- Native American Studies
- Women's Studies

American Studies

On this page:

- Back to CLASS Minors
- Description
- Required Courses
- Go to Department of English website
- Go to Department of History website

American Studies (Interdisciplinary Minor)

American Studies is an interdisciplinary program administered jointly by the departments of English and History. The minor is intended to provide students with a variety of perspectives on American culture, society, and history and to aid them in their understanding of a varied and complex civilization. To this end, students may choose from a variety of academic fields including history, literature, politics, popular culture, society, and the visual arts. A minor in American Studies can serve as a valuable complement to majors in several fields, including but not limited to, Art History, Communication, English, History, Political Science, and Sociology. Students interested in an American Studies minor should contact either the chairperson of the Department of English 216-687-3950, or the chairperson of the Department of History 216-687-3920.

Required Courses:

Students wishing to minor in American Studies must develop a plan of study with the American Studies Steering Committee and must earn at least 20 semester credit hours in approved American Studies courses. The 20 semester credit hours must include:

1. **American Studies Core Courses** (three courses)
    - HIS 301 American Cultural History
    - HIS 111 United States History to 1877
      or
    - HIS 112 United States History Since 1877
    - ENG 342 Survey of American Literature
2. **Elective Courses**
    - ART 374 American Architecture
    - Other courses will be selected from an extensive list including courses from the departments of Art, Communication, Economics, English, History, Philosophy, Political Science, Religious Studies, and Sociology.

Asian Studies

On this page:

- Back to CLASS Minors
- Go to Interdisciplinary Programs website

Asian Studies (Interdisciplinary Minor)

The Asian Studies minor is offered by the departments of Anthropology, Art, History, Modern Languages, Music, Political Science, and Religious Studies. The program's objectives are to heighten awareness of the rich and diverse histories and cultures of Asia, to stimulate cross-cultural interest among students in the social sciences and the humanities, and to cultivate an appreciation of Asian arts and literatures. Students interested in an Asian Studies minor should contact the director, Dr. Qingshan Tan, at 216-687-9282, or the Interdisciplinary Programs Office at 216-687-3914.

Required Courses:

Students wishing to minor in Asian Studies must complete:

- A minimum of 16 semester credit hours in designated Asian Studies courses from at least three different departments within the College of Liberal Arts and Social Sciences.
- Three courses must be concentrated in offerings related to the study of either South/Southeast Asia or East Asia.
- At least one course must be completed at the 300/400-level in an area other than the area of concentration.

Designated Courses:

- ANT 394 Area Studies in Anthropology - Courses on Asia (China, India, Indonesia) are Asian Studies courses.
- ART 281 Introduction to Far Eastern Art
- ART 380 Art of China
- ART 383 Indian Art
- ART 384 Buddhist Sculpture
- ART 385 The Hindu Temple
- ART 394 History of Japanese Art
- CHN 101 Chinese I
- CHN 102 Chinese II
- HIS 271 Empire’s End: British Asia
- HIS 371 History of Japan
- HIS 372 Early Modern Japan
- HIS 373 Contemporary Japan in Historical Perspective
- HIS 374 Revolutionary Movements in Modern China
- HIS 381 Class, Gender and Sexuality in China: 1700 – present
- HIS 383 The Making of Southeast Asia
- JPN 101 Japanese I
- JPN 102 Japanese II
- PSC 221 Comparative Politics
- PSC 335 East Asian Politics
- REL 276 Eastern Religions
- REL 360 Hinduism
- REL 362 Buddhism
- REL 364 Islam
- UST 206 Megacities of Asia

Black Studies

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- Go to Black Studies Program website

Black Studies (Interdisciplinary Minor)

The Black Studies minor is an interdisciplinary program administered by the office of the Black Studies Program. The minor in Black Studies is granted by the College of Liberal Arts and Social Sciences. The majority of courses are offered by the College of Liberal Arts and Social Sciences but Black Studies courses are also offered in other colleges. See the website or call the Black Studies Program for the complete listing of courses. The scope of the Black Studies courses encompasses the study of the history, geography, experiences, contribution, and lifestyles of peoples of African descent. It also covers the myriad aspects and manifestations of the arts and cultures of African peoples on the continent of Africa, and persons of African descent in the United States of America, and in other areas of the African Diaspora.

Students majoring in any discipline may pursue a minor in Black Studies. Upon graduation, students of Black Studies are welcomed into a variety of occupations and graduate and professional schools. Based on data collected by the National Council of Black Studies, Black Studies graduates do particularly well in social service areas, sales, and media communications. There is evidence that students in Black Studies receive substantive aid in their preparation for advanced graduate studies in law, education, social work, public administration, international affairs, social policy analysis, and other areas of study.

Students electing to minor in Black Studies are to inform the director of Black Studies of their intention as early as possible by completing the Declaration or Change of Minor form and submitting it to the director. The director of Black Studies or a person designated by the director shall serve as adviser to students who elect a minor in Black Studies.

Required Courses:

The Black Studies minor requires twenty-four (24) credit hours be completed in Black Studies designated courses. All minors must complete BST 200: Introduction to Black Studies. one core course from each section I, II and III, and follow the additional requirement guidelines.

I. Courses may be selected from the Black Studies Program list of course requirements indicated in the Black Studies Major Curriculum. .**BST 200 Introduction to Black Studies** course is required of all minors. Introductory Courses (Select one of the following courses).
   - ANT 270 African-American Culture
   - ENG 207 African-American Literature
   - REL 217 Religion in Black America
   - SOC 382 African American Communities
   - SWK 150 The Black Experience and Contemporary Society

II. **HIS 175** Introduction to African History

III. **African-American Culture.** (Select one of the following courses)

- COM 388 The Rhetoric of Black America
- HIS 215 The History of African-Americans to 1877
- HIS 216 The History of African-Americans Since 1877
- PSC 217 Urban Politics and the African-American Experience

Additional Requirement Guidelines:

1. A minimum of 12 credit hours shall be selected from Black Studies courses at the 300-level or higher.

2. Courses should be selected from a minimum of three different departments or disciplines.

Transfer students planning to minor in Black Studies shall complete a minimum of 12 credit hours in Black Studies courses at Cleveland State University. For transfer students, a minimum of 9 credit hours of upper-level courses shall be completed at Cleveland State University. The transfer of Black Studies credits is subject to the approval of the director of Black Studies or of a person or persons designated by the director.

Criminal Justice

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Criminal Justice (Interdisciplinary Minor)

The Criminal Justice minor is offered by the Department of Sociology. Students take courses in a variety of social-science disciplines and explore different perspectives on crime, corrections, and the law. The minor introduces students to the institutions involved in society's handling of crime. It also is designed to heighten awareness of the theoretical and philosophical issues involved in defining, explaining, and deterring crime and to introduce students to social-science research on the nature and extent of crime.

In conjunction with a major program, the minor in Criminal Justice provides students with the appropriate entry-level qualifications for many professional positions in criminal justice fields, and prepares them for graduate study in criminology or criminal justice. The minor is not available to students majoring in Criminology. Students interested in minoring in Criminal Justice should contact the chairperson of the Department of Sociology 216-687-4500, who coordinates the minor.

Required Courses:

Students wishing to minor in Criminal Justice must complete three core, one law elective, and three general elective courses from the list below for a minimum of 23 semester credit hours:

1. **Criminal Justice Core Courses**
    - SOC 250 Introduction to Criminology
    - SOC 344 U.S. Criminal Justice Systems
    - SWK 240 Administration of Justice
2. **Law Electives:**
    - PSC 310 Constitutional Law
    - PSC 311 Civil Rights and Civil Liberties
    - SOC 342 Sociology of Law
    - SWK 259 The Child, the Family and the Law
    - SWK 375 Criminal Law
3. **Elective Courses:** (A course taken as a law elective cannot also be counted as a general elective).
    - ECN 350 Economics of Crime and Punishment
    - ECN 450 Economics of Law
    - PHL 341 Philosophy of Law
    - PHL 453 Social, Political, and Legal Philosophy
    - PSC 310 Constitutional Law
    - PSC 311 Civil Rights and Civil Liberties
    - PSY 345 Abnormal Psychology
    - SOC 311 Individual and Society
    - SOC 341 Juvenile Delinquency
    - SOC 342 Sociology of Law
    - SOC 344 U.S. Criminal Justice Systems
    - SOC 345 Social Control
    - SOC 346 Corporate and Governmental Deviance

- SOC 347 Sociology of Policing
- SOC 348 Sociology of Corrections
- SOC 349 Women and Crime
- SOC 360 Sociology of Interpersonal Violence
- SOC 394 Special Topics in Criminology (various)
- SOC 491 Criminology Internship
- SWK 259 The Child, the Family and the Law
- SWK 341 Corrections: Institutional and Community-Based
- SWK 371 Constitutional Criminal Procedure
- SWK 374 Law Enforcement in Society
- SWK 375 Criminal Law
- SWK 470 Problems and Issues in Criminal Justice

For additional information, contact the chairperson of the Department of Sociology at 216-687-4500.

Middle Eastern Studies

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- Go to Department of Modern Languages website
- Go to Department of Political Science website
- Go to Department of Religious Studies website

Middle Eastern Studies (Interdisciplinary Minor)

The Middle Eastern Studies minor provides a broadly based program that focuses on important Middle Eastern topics in several departments. The United States has a long-term need for a critical mass of professionals in Middle Eastern languages, history, politics and culture, who understand the Middle East, to serve the nation's international relations, diplomatic, homeland security, military and economic needs. No other university in Northeast Ohio has such a program.

This baccalaureate minor provides courses that students can apply toward both the minor and several different majors (Classical and Medieval Studies, English, History, International Relations, Political Science, and Religious Studies). Students interested in the Minor in Middle Eastern Studies should contact the Interdisciplinary Programs Office by e-mail at ipo@csuohio.edu, telephone at 216-687-3914, or visit Rhodes Tower 1644.

Required Courses:

A student seeking a Middle Eastern Studies minor will need to complete one core course (4 credit hours) and demonstrate an intermediate-level skill of an identified and regionally appropriate foreign language. A maximum of 8 credit hours of the minor may come from language instruction. The student will also need to complete a minimum of two courses (8 credit hours) from the list of electives below. The student must complete a minimum of 20 credit hours to complete the minor in Middle Eastern Studies. New courses will be added to the elective offerings.

Credit Hours: A minor in Middle Eastern Studies consists of a minimum of 20 credits, of which eight must be at the 300-level or above. The required core and elective courses are distributed as follows:

1. **Core Requirements:**
   Minors in Middle Eastern Studies must complete one core course and demonstrate intermediate foreign-language skills.
   - *Core course:* ARB/HIS/PSC 274 Introduction to the Middle East (4 credit hours)
   - *Language requirement:* A student must demonstrate an intermediate-level language skill in a single programmatically appropriate language, including Arabic, Hebrew, Turkish or Persian. A maximum of 8 credit hours of language instruction may count toward the minor.
2. **Electives:**
   A student seeking a minor in Middle Eastern Studies must select a minimum of two elective courses from more than one discipline (Modern Languages, Art, History, Political Science, or Religious Studies) identified below:
   - *Language and Culture Courses (Modern Languages)*
     - ARB 371 Introduction to Classical Arabic Literature (4 credit hours)
     - ARB 393 Special Topics* in Arabic: (1-4 credit hours)

        - ARB 493 Special Topics* in Arabic: (1-4 credit hours)
        - MLA 235/ARB 335 Arab Film
        - MLA 245/ARB 345 Arabic Resources of Cleveland/Service Learning
        - MLA 280/ARB 380 Women in the Arab World
    - *Art*
        - ART 353 Islamic Art
    - *History Courses:*
        - HIS 377 History of Islamic Civilizations (4 credit hours)
        - HIS 386 History of the Middle East to 1798 (4 credit hours)
        - HIS 387 Modern Middle East (4 credit hours)
    - *Political Science Courses:*
        - PSC 332 Politics in the Middle East (4 credit hours)
        - PSC 339 Political Economy of the Middle East and North Africa (4 credit hours)
    - *Religious Studies Courses:*
        - REL 364 Islam (4 credit hours)
        - REL 366 Modern Islamic Movements (4 credit hours)
        - REL 367 Muslim Relations with Christians and Jews (4 credit hours) (Note: effective Spring 2008)
    - *Study Abroad:*
        - Students may receive credit toward the minor by engaging in a study-abroad program.
    - New elective courses may be added. Students should contact an adviser in one of the participating departments.

*Note: Special Topics courses in any of the disciplines will be considered as meeting the Middle Eastern Studies minor requirements if content is applicable and approved by the program director.

Native American Studies

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- Go to Department of Anthropology website
- Go to Department of English website
- Go to Department of History website

Native American Studies (Interdisciplinary Minor)

The Native American Studies minor is an interdisciplinary program administered by the Anthropology Department that provides students with an introduction to the indigenous peoples of North, Central, and South America and the diversity of Native American communities. A minimum of 20 credit hours, with no more than 12 credit hours coming from any one department, is required. For further information please contact the Anthropology Department at 216-687-2152 or e-mail anthropology@csuohio.edu.

Required Courses:

Foundations Course (4 credit hours)

- ANT 210 Introduction to Native American Studies

Exploration Courses (a minimum of 16 credit hours, with at least 12 credit hours at the 300 or 400 level)

Any courses listed below:

- ANT 171 Native Civilizations of the Americans
- ANT 293 Topics in Anthropology (when topic is either Maya Hieroglyphic Writing OR Ohio Prehistory)
- ANT 331 North American Prehistory
- ANT 347 Maya Hieroglyphic Writing I
- ANT 349 American Indian Languages
- ANT 351 Native North Americans
- ANT 352 Native South Americans
- ANT 357 Peoples and Cultures of Mesoamerica
- ANT 366 Native Peoples of the Southwest
- ANT 440 Southwest Field Experience
- ANT 447 Maya Hieroglyphic Writing II
- ANT 496 Independent Study in Anthropology (with approval of N.A.S. adviser)
- ENG 210 Native American Literature
- ENG 336 Studies in Non-Western Literature (with approval of N.A.S. adviser)
- ENG 348 Studies in Multicultural Literature (with approval of N.A.S. adviser)
- HIS 310 Indians in American History
- HIS 312 17th Century America
- HIS 316 History of the American West
- HIS 366 Colonial Latin America

Women's Studies

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Women's Studies (Interdisciplinary Minor)

Women's Studies is an interdisciplinary program offered jointly by 18 departments and three colleges. Students majoring in any field may choose to minor in Women's Studies or to take Women's Studies courses. A minor in Women's Studies helps women and men prepare for the sequence of careers that will be the hallmark of personal success in the 21st century. A background in Women's Studies provides academic credentials and transferrable skills including critical thinking, writing, speaking and research skills through the methodologies and subject matters of multiple academic disciplines that study women's abilities, history, values and interests.

Women's Studies helps students understand reasons for social changes in women's roles. It provides informative perspectives on career options. It prepares students for graduate work in Women's Studies and other disciplines. And Women's Studies educates students to become effective agents for change in the community and work place. Thus, Women's Studies enhances career preparation and provides a more accurate and balanced view of the society in which the student will serve.

Students electing this minor should inform the Women's Studies Director, who will serve as adviser in cooperation with the Women's Studies faculty.

Required Courses:

The Women's Studies minor requires a minimum of 16 credit hours in courses designated as Women's Studies, of which 8 credit hours must be at the 300- to 400-level. There are three distribution requirements:

1. COURSES MUST BE SELECTED FROM AT LEAST THREE DIFFERENT DEPARTMENTS.

2. COURSES MUST INCLUDE AT LEAST ONE COURSE FROM THE HUMANITIES:

- ARB 380 Women in the Arab World
- ENF 214 Women Writers in English Translation
- ENF 215 Women Writers in English Translation
- ENG 207 African American Literature *when taught by WST faculty*
- ENG 208 Womanism/Feminism
- ENG 330 Studies in Ancient Literature *when offered as Feminist Approaches to Classical Literature*
- ENG 333 Studies in Restoration and 18th-Century British Literature *when offered as Feminist Approaches to 18th Century Fiction*
- ENG 334 Studies in 19th-Century British Literature *when offered as Feminist Approaches to 19th Century Fiction*
- ENG 335 Studies in 20th-Century British and Anglophone Literature
- ENG 363 Gender Issues in Literature
- ENG 375 Major Author *when offered as: Jane Austin, or Bronte Sisters, or Emily Dickinson, or Toni Morrison, or Virginia Woolf*)

- FRN 365 Readings in French Literature *when offered as French Decadence: Literature & Sexuality*
- FRN 493 Special Topics in French *when offered as French Women Writers: From the Middle Ages to the Present*
- HIS 284 History of Women
- HIS 327 American Sexual Communities and Politics
- HIS 354 European Women's History
- HIS 381 Class, Gender and Sexuality in China: 1700-present
- HIS 393 Special Topics: *when offered as History of Women in America, History of Black American Women*
- MLA 280 Women in the Arab World
- PHL 253 Philosophy of Feminism
- PHL 410 Studies in the History of Philosophy *when offered as Women Philosophers*
- PHL 446 Ethics of Human Reproduction
- REL 260 Women and Religion
- REL 370 Sexual Ethics
- REL 376 Women in Early Christianity
- SPN 484 Studies in Spanish American Literature *when offered as Latin-American Women Writers in the 20th Century*

3. **AND, AT LEAST ONE COURSE FROM THE SOCIAL SCIENCES**

- ANT 324 Anthropology of Gender
- ANT 243 Language and Gender
- COM 331 Gender and Communication
- COM 493 Special Topics: *when offered* as Gender Differences in Language
- EDB 455 Women and Education
- HSC 346 Women's Health
- NUR 493 Special topics: *when offered as Women's Health..*
- PSY 255 Psychology of Women
- PSY 352 Human Sexuality
- SOC 201 Race, Class, and Gender
- SOC 302 Women in Corporate America
- SOC 310 Sociology of Marriage and the Family
- SOC 317 Sociology of Gender
- SOC 349 Women and Crime
- USA 455 Gender and Leadership
- WST 151 Intro to Women's Studies
- WST 351 Practicum
- WST 393 Special Topics
- WST 495 Advanced Seminar: Women's Studies
- WST 496 Independent Study

2. The Advanced Seminar in Women's Studies (WST 495) is required for the minor in Women's Studies.

Up to 6 credit hours of independent study, WST 496, involving investigation of a topic relevant to Women's Studies, will be accepted toward the required credits. Students who wish to take an independent study course should contact the Director of the Women's Studies Program who must pre-approve the prospectus for independent study.

College of Liberal Arts and Social Sciences

Certificate Programs

The College of Liberal Arts and Social Sciences offers several certificate programs. These programs offer a series of courses within a given area of study and permit individuals to develop a well-defined knowledge and/or skills base generally not available in either a major or minor program of study. Certificate programs are not necessarily connected to, and do not lead to, a degree program. They may be completed by either degree-seeking or non-degree students. Certificate programs are available in the following areas:

- American Studies
- Arts Management (offered by the College of Business)
- Bioethics
- Central and Eastern European Studies
- Criminal Justice with concentrations in Corrections or Law Enforcement (School of Social Work)
    - Corrections Concentration
    - Law Enforcement Concentration
- Criminal Justice (Department of Sociology)
- Culture, Communication, and Health (Joint Certificate)
- Graphic Design
- The History of the African Diaspora
- International Studies
    - Language and Culture for Global Affairs
    - Cross-Cultural Communication
    - Language Skills for Business
- Journalism
- Latin American Studies
- Multimedia Advertising
- Professional Writing
- Science Writing

Certificate in American Studies

The Certificate in American Studies is an interdisciplinary program administered by the Department of History and is aimed primarily at students who will be at CSU for only a limited time. The requirements may be completed in one semester. The certificate is intended to provide students with a variety of perspectives on American culture, society, and history and to aid them in their understanding of a varied and complex civilization. To this end, students may choose from a variety of academic fields including history, literature, politics, popular culture, society, and the visual arts.

Students wishing to earn a Certificate in American Studies must complete 15 or 16 credit hours in approved American Studies courses (listed below) in at least three disciplines. No more than 8 credits may be taken at the 100/200 level.

Students are urged to consult with the Undergraduate Director or Chair in the Department of History to develop a plan of study. While the courses listed below are offered regularly, they are not offered every semester. When appropriate, other courses such as special topics courses may be taken with permission from the chair of the department concerned.

Anthropology:
ANT 100 Human Diversity (4)
ANT 270 African-American Culture (4)
ANT 351 Native North Americans (4)

Art:
ART 370 American Visual Culture (4)
ART 388 African-American Art (4)

Communication:
COM 226 Mass Media and Society (4)
COM 332 Interracial Communication (4)
COM 347 Political Communication (4)
COM 350 Persuasive Communication and Attitude Change (4)

English:
ENG 206 Literature and American Culture (4)
ENG 207 African American Literature (4)
ENG 210 Native American Literature (4)
ENG 342 Survey of American Literature (4)
ENG 345 Studies in American Literature (a topics course) (4)
ENG 347 Studies in African American Literature (4)
ENG 348 Studies in Multicultural Literature (4)

History:
HIS 110 U.S. History Survey (4)
HIS 111 U.S. to 1877 (4)
HIS 112 U.S. from 1877 (4)
HIS 215 History of African-Americans to 1877 (4)
HIS 216 History of African-Americans from 1877 (4)
HIS 300 Everyday Life in Early America, 1607-1865 (4)
HIS 301 American Cultural History, 1865 to the Present (4)
HIS 302 US Slavery, Abolition, & Politics, 1820-1860 (4)
HIS 303 Recent U.S. Social History (4)
HIS 304 U.S. Urban History (4)
HIS 310 Indians in American History (4)

HIS 312 17th Century America (4)
HIS 313 18th Century America (4)
HIS 315 Radicals and Reformers in 19th-Century U.S. (4)
HIS 316 History of the American West (4)
HIS 317 Civil War and Reconstruction, 1848 to 1877 (4)
HIS 318 Black America and Africa (4)
HIS 319 History of U.S. Tourism (4)
HIS 320 U.S. Foreign Policy Since 1898 (4)
HIS 321 United States 1901 to 1939 (4)
HIS 323 Recent American History (4)
HIS 324 Black Is/Black Ain't: Defining Black America (4)
HIS 325 African-Americans Since 1945 (4)
HIS 326 African American History Through Sacred Music (4)
HIS 327 American Sexual Communities and Politics (4)
HIS 329 Black Resistance in the Age of Jim Crow 1896-1954 (4)
HIS 369 Comparative Emancipation (4)

Philosophy:
PHL 362 American Philosophy (4)

Political Science:
PSC 111 American Government (4)
PSC 305 Cultural diversity in US Politics (4)
PSC 310 Constitutional Law (4)
PSC 311 Civil Rights and Civil Liberties (4)
PSC 317 Political Parties and Elections (4)
PSC 318 The Presidency and Congress (4)
PSC 319 Public Opinion (4)
PSC 342 American Political Thought (4)

Religious Studies:
REL 245 Religion in America (4)
REL 217 Religion in Black America (4)
REL 317 Religious Ethics of Malcolm X and Martin Luther King (4)

Sociology:
SOC 101 Introduction to Sociology (3)
SOC 201 Race, Class and Gender (3)
SOC 203 Sociology of Poverty (3)
SOC 215 Black/White Interaction (3)
SOC 313 Sociology of Education (4)
SOC 314 Sociology of Sports (4)
SOC 317 Sociology of Gender (4)
SOC 305 Urban Sociology (4)
SOC 382 African American Communities (4)
SOC 383 Political Sociology (4)

College of Liberal Arts and Social Sciences: Certificate Programs

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Applied Economics and Public Policy (Certificate)

The certificate program in Applied Economics and Public Policy is designed for students who are interested in current economic issues and the public policy for dealing with these issues. The program is intended for students with minimal previous preparation in economics. With three exceptions, the courses required for the certificate in economics require no more than a background in principles of economics.

To a limited degree, the program is interdisciplinary. One course out of the four required for the program may be taken in either Sociology or Political Science.

Required Courses:

The program requires students to complete four courses (a minimum of 15 hours). The courses must be selected from the list below and must include at least three courses in economics.

- ECN 333 Economics of Health Care (4 hours)
- ECN 360 Public Sector Economics (4 hours)
- ECN 450 Economics of Law (4 hours)
- ECN 474 Environmental and Natural Resource Economics (4 hours)
- ECN 475 Labor Economics (4 hours)
- ECN 482 International Economics (4 hours)
- PSC 315 Public Policy and Administration (4 hours)
- SOC 203 Sociology of Poverty (3 hours)

There are two general paths to acquiring the certificate:

For students who have completed ECN 201 and ECN 202, the program can be completed by taking the following three Economics courses and either SOC 203 or PSC 315:

- ECN 333
- ECN 360
- ECN 482
- SOC 203 or PSC 315

For students who have completed ECN 201, ECN 202 and ECN 302, the certificate can be earned with any four of the following seven options:

- ECN 333
- ECN 360
- ECN 450
- ECN 474
- ECN 475
- ECN 482
- SOC 203 or PSC 315

College of Liberal Arts and Social Sciences: Certificate Programs

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- Go to Philosophy Department website

Bioethics (Certificate)

The Undergraduate Certificate in Bioethics is designed primarily for persons preparing for careers in medicine, nursing, social work, psychology, education, one of the health sciences, or other health-related professions. It can also serve upper-level students preparing for careers in law or business who wish to understand health policy, law, and clinical practice in relation to philosophy and ethics. The Certificate in Bioethics will attest that the student has completed a course of study in moral theory and clinical practice, law, or policy related to bioethics. Enrollment will be open to upper-level undergraduates, and others by petition. Both degree-seeking students and non-degree students are eligible.

Required Courses:

All bioethics courses are offered online and include the following four-credit courses:

- PHL 440 Moral Reasoning and Bioethics
- PHL 441 Clinical Issues in Bioethics
- PHL 442 Policy Issues in Bioethics
- PHL 443 Bioethics and the Law
- PHL 444 Bioethics and Biotechnology
- PHL 445 Health Economics and Bioethics
- PHL 446 Ethics of Human Reproduction

The program requires a total of 12 semester hours in bioethics at the undergraduate level, distributed as described below, with a grade of at least 3.0 quality points in each:

1. Moral Reasoning Requirement (4 credits), fulfilled by taking:
    - PHL 440, Moral Reasoning and Bioethics (4 credits);
2. Bioethics Electives (8 credits), chosen from the other courses listed above.

For additional information, contact the Philosophy Department at 216-687-3900.

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Central and Eastern European Studies (Certificate)

The re-emergence of Central Europe has been one of the most significant developments of this generation. The "lands between," as those countries have been called, have historically been deeply influenced, and at times dominated, by Russia and Germany.

This certificate program should be useful to students across the university to add an international focus to their studies. Members of the Greater Cleveland community, especially those with business interests in the area, may also find this program of particular value.

Required Courses:

Students wishing to earn a Certificate in Central and Eastern European Studies must complete 16 semester hours from the following list of courses. These courses must come from at least two different disciplines. If the student is completing a major in one of those disciplines, only one course taken to meet the minimum major requirement may also be counted toward the certificate.

- ENF 216 Foreign Film (with appropriate topic)
- ENF 217 Foreign Film (with appropriate topic)
- GER 235 Germany Today
- GER 240 Field Studies
- GER 402 Advanced Composition and Conversation (when taught as a Culture Course)
- GER 448 German Culture and Civilization
- GER 493 Special Topics in German
- HIS 360 History of Russia to 1900
- HIS 361 History of Modern Russia
- HIS 362 Modern Eastern Europe
- HIS 393 Special Topics in History (with appropriate topic)
- MLA 115 Contemporary Western Cultures (with appropriate topic)
- PSC 324 Russia and The Successor States
- PSC 338 Central and Eastern Europe
- PSC 394 Special Topics (with appropriate topic)
- PSC 421 Seminar in Comparative Politics (with appropriate topic)

Other courses in these or other departments may be taken with approval of the program committee.

For additional information contact: the Department of Political Science 216-687-4541, the Department of History 216-687-3920, or the Department of Modern Languages 216-687-4645.

College of Liberal Arts and Social Sciences: Certificate Programs

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- Go to the School of Social Work

Criminal Justice with Concentrations in Corrections or Law Enforcement (Certificate)

The School of Social Work offers a certificate program in Criminal Justice with a concentration in either Corrections or Law Enforcement. The concentration in Corrections helps to prepare a student for work in a career such as probation or parole officer, jail or prison social worker, rehabilitation counselor, or court mediator. The concentration in Law Enforcement helps to prepare a student for work in a career such as police officer, detective, bailiff, deputy, park ranger, federal investigator, or customs agent.

Students enter the program from different backgrounds and with a variety of career objectives in the area of criminal justice. Many are interested in attending law school, some in seeking law-related professions, and others in pursuing an understanding of the relationships among law, society, and the justice system. In addition to traditional students who are seeking to complement their major program of study, those pursuing a certificate in Criminal Justice include police officers, correctional officers, ex-offenders, chemical dependency workers, juvenile justice advisers, community advocates, and social workers. The two concentrations are designed to meet the various objectives sought by such a diverse student population.

Corrections Concentration

The concentration in Corrections prepares students for practice in community-based and institutional corrections programs. The Corrections concentration has core courses that focus on incarceration, community-based corrections, commitment alternatives, equal protection issues, and treatment of offenders.

Requirements for a certificate in Criminal Justice with a concentration in Corrections

Students seeking a concentration in Corrections must complete a minimum of 16 semester credit hours which must include:

1. Criminal Justice required core courses:
    - PSC 310 Constitutional Law
    - SWK 240 Administration of Justice*
      *This course should be taken before the Corrections or Law Enforcement electives.
    - SWK 470 Problems and Issues in Criminal Justice
2. One Criminal Justice elective course selected from the listing below:
    - SWK 259 The Child, the Family, and the Law
    - SWK 340 Legal Aspects of Human Services
    - SWK 341 Corrections: Institutional and Community Based
    - SWK 342 Prisoner's Rights and
3. SWK: Any course from the Law Enforcement program excluding SWK 259

Law Enforcement Concentration

The concentration in Law Enforcement prepares students for a variety of careers in the criminal justice field and is especially appropriate for students transferring from programs in law enforcement at community colleges, and police officers who wish to further their education.

Requirements for a certificate in Criminal Justice with a concentration in Law Enforcement

Students seeking a concentration in Law Enforcement must complete a minimum of 16 semester credit hours which must include:

1. Criminal Justice required core courses:
    - PSC 310 Constitutional Law
    - SWK 240 Administration of Justice*
      *This course should be taken before the Corrections or Law Enforcement electives.
    - SWK 470 Problems and Issues in Criminal Justice
2. One Criminal Justice elective course selected from the listing below:
    - SWK 259 The Child, the Family, and the Law
    - SWK 371 Constitutional Criminal Procedure
    - SWK 374 Law Enforcement in Society
    - SWK 375 Criminal Law
    - PSC 301 Urban Politics and Policy
    - SOC 340 Criminology

For additional information, contact the School of Social Work at 216-687-4560.

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- Go to Department of Sociology

Criminal Justice (Certificate)

The Criminal Justice certificate, which is administered through the Department of Sociology, introduces students to the institutions involved in society's handling of crime. It is also designed to heighten awareness of the theoretical and philosophical issues involved in defining, explaining, and deterring crime; and to introduce students to some of the social-science research on the nature and extent of crime. In addition, the certificate provides students with the appropriate entry-level qualifications for many professional positions in criminal justice fields.

Required Courses:

Students wishing to earn a certificate in Criminal Justice must complete three core courses, one law elective, and one general course elective from the list below for a minimum of 16 credit hours. At least 7 hours must be at the 300-400 level.

1. Required core courses:
    - SOC 250 Introduction to Criminology
    - SOC 344 U.S. Criminal Justice Systems
    - SWK 240 Administration of Justice
2. Law electives:
    - PSC 310 Constitutional Law
    - PSC 311 Civil Rights and Civil Liberties
    - SOC 342 Sociology of Law
    - SWK 259 The Child, the Family, and the Law
    - SWK 375 Criminal Law
3. Elective Courses: (A course taken as a law elective cannot also be counted as a general elective)
    - SOC 311 Individual and Society
    - SOC 341 Juvenile Delinquency
    - SOC 342 Sociology of Law
    - SOC 344 U.S. Criminal Justice System
    - SOC 345 Social Control
    - SOC 346 Corporate and Governmental Deviance
    - SOC 347 Sociology of Policing
    - SOC 348 Sociology of Corrections
    - SOC 349 Women and Crime
    - SOC 360 Sociology of Interpersonal Violence
    - SOC 394 Special Topics: Sociology of Prisons
    - SWK 259 The Child, the Family, and the Law
    - SWK 341 Corrections: Institutional and Community Based
    - SWK 371 Constitutional Criminal Procedure
    - SWK 374 Law Enforcement in Society
    - SWK 375 Criminal Law

- SWK 470 Problems and Issues in Criminal Justice
- PSC 310 Constitutional Law
- PSC 311 Civil Rights and Civil Liberties
- PSY 345 Abnormal Psychology
- PHL 341 Philosophy of Law
- PHL 453 Social, Political, and Legal Philosophy
- ECN 350 Economics of Crime and Punishment
- ECN 450 Economics of Law

No more than 4 hours of internship credit may be applied toward this program.

For additional information, contact the chairperson of the Department of Sociology at 216-687-4500.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to Anthropology
- Go to Communication
- Go to Health Sciences
- Go to Psychology
- Go to Sociology

Culture, Communication and Health (Joint Certificate)

The Culture, Communication, and Health Certificate is an interdisciplinary program in which students examine the rich interplay among culture, communication, and the health care context. A comprehensive understanding of contemporary health care requires an appreciation of the multiple ways that culture and societal institutions influence the communication (and miscommunication) of health information within an administrative or service delivery context. The complex intersections among culture, communication and health cannot be understood in isolation; rather they are most effectively appreciated when studied in a multi-disciplinary context. In this program, students can gain a fundamental understanding of the subtle, dynamic role that culture plays in the practice and communication of health information. A critical component of contemporary health care is cultural competence, and completing the requirements of this certificate offers students the academic and practical skills needed to implement a culturally competent approach to health care.

Students who complete this certificate are expected to understand the value of diversity; to have the capacity for cultural self-reflection, including diverse health beliefs, values, and practices; to be aware of the dynamics inherent when cultures interact, with an emphasis on health communication and health issues and contexts; to recognize the importance of effective health communication in a diverse community; and to develop the skills necessary to make adaptations to health communication within an administrative or service delivery context reflecting an understanding of diversity between and within cultures.

The academic units participating in this certificate program are the Departments of Anthropology, Health Sciences, Psychology, and Sociology, and the School of Communication.

Admission and Completion: For admission to this certificate program, a student must earn at least a B- in one of the prerequisite courses (ANT 100 or SOC 201). To receive the certificate, a GPA of at least 2.8 must be achieved for the coursework completed for the certificate. A student must also complete an Intent to Complete the Certificate in Culture, Communication, and Health Form which can be obtained from the academic adviser in the Department of Health Sciences.

About Required Courses: The certificate requires 20-21 semester hours. These include 7 hours of core courses in health sciences and communication, 11-12 hours of electives, and a 2-3 credit internship/cooperative education experience requiring a culture, communication, and health focus.

Requirements

- **Prerequisite (does not count toward the credits required for the certificate):**
    - ANT 100 Human Diversity (4) or SOC 201 Race, Class, Gender (3)

- **Required Courses (7 semester hours):**
  - COM 362 Health Communication (4)
  - HSC 305 Cultures and Health Care (3)
- **Elective Courses: 3-4 electives (11-12 credit hours). Must be in at least two different disciplines.**
  - ANT 260 Language, Culture, and Society (4)
  - ANT 270 African American Culture (4)
  - ANT 311 Medical Anthropology (4)
  - ANT 321 Psychological Anthropology (4)
  - COM 332 Interracial Communication (4)
  - COM 348 Intercultural Communication (4)
  - COM 350 Persuasive Communication and Attitude Change (4)
  - COM 449 Advanced Issues in Health Communication (4)
  - HED 450 Theories in Health Education and Health Behavior (4)
  - HSC 346 Women's Health (3)
  - PSY 353 Health Psychology (4)
  - PSY 356 Multicultural Psychology (4)
  - SOC 211 American Culture and Society (3)
  - SOC 215 Black/White Interaction (3)
  - SOC 312 Sociology of Mental Illness (4)
  - SOC 343 Medical Sociology (4)
  - SOC 380 Racial and Ethnic Inequality (4)

- **Capstone Project: (2-3 credits)**
  Internship/Cooperative Education Experience: Students may pursue internship or cooperative education experiences through the Departments of Anthropology, Health Sciences, Psychology, and Sociology, and the School of Communication..

Advising

Students interested in pursuing the Certificate in Culture, Communication, and Health should seek advising from the Department of Health Sciences and complete the required Intent to Complete the Certificate in Culture, Communication, and Health Form.

Contact the Health Sciences Department at 216-687-3567 for an appointment.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to Department of Art website

Graphic Design (Certificate)

The certificate program in Graphic Design prepares students, with or without a baccalaureate degree in art, for the conception and production of two-dimensional graphic designs, with emphasis on the utilization of software for the Macintosh computer. The certificate program is an alternative to a traditional four-year art degree, for creative and self-motivated students who specifically want to develop their technical proficiency, aesthetic sensibility, and design expertise.

Required Courses:

Students seeking a certificate in Graphic Design must complete a minimum of 16 semester credit hours which must include:

Required core courses:

- ART 244 Introduction to Macintosh
- ART 344 Advanced Raster-Image Development
- ART 345 Advanced Vector-Image Development
- ART 444 Advanced Typography and Design OR
  ART 445 Introduction to Digital Media

NOTE: ART 102 (Introduction to 2-D Art and Design) and ART 242 (Introduction to Typography) are prerequisite courses to those required for the certificate.

Additional electives in studio art are strongly recommended.

For additional information, contact the Department of Art at 216-687-2040.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to the Department of History

History of the African Diaspora (Certificate)

The African Diaspora constitutes one of the largest and most consequential migrations in the history of mankind. This forced migration of over 10 million human beings transformed many areas of Africa and the Americas. This certificate program recognizes the significance of this historical process and its enduring importance as the subject of study. Students are called upon to examine the Diaspora in its comparative perspective by focusing on the history of Africa, the United States and Latin America.

Required Courses:

Students are required to complete 24 semester credit hours (6 courses) of which at least:

- 8 semester credit hours (2 courses) must be in African history
- 4 semester credit hours (1 course) must be in African-American (U.S.) history
- 4 semester credit hours (1 course) must be in Latin American history
- 4 semester credit hours (1 course) must be an Independent Study research project involving any two of the three areas

The remaining course is an elective in one of the three areas.

For additional information, contact the Department of History at 216-687-3920.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Language and Culture for Global Affairs
- Cross-Cultural Communication
- Language Skills for Business
- Go to Political Science Department
- Go to Modern Languages Department

International Studies (Three Certificates)

- Language and Culture for Global Affairs
- Cross-Cultural Communication
- Language Skills for Business

These three certificates provide different approaches to international studies. Language and Culture for Global Affairs focuses on area studies; Cross-Cultural Communication concentrates on the impact of culture on behavior in multicultural contexts; and Language Skills for Business emphasizes the development of commercial language skills.

The Department of Political Science administers the Language and Culture for Global Affairs and the Cross-Cultural Communication certificates. The chair of the Political Science Department meets with each student interested in undertaking either of these certificates and assigns an appropriate adviser on the basis of the student's expressed interest. The Political Science Department will keep records on student progress and issue an appropriate certificate to all students completing either program.

Modern Languages administers the Language Skills for Business certificate and awards the certificate. Students interested in this program should contact the Modern Languages Department.

A. Language and Culture for Global Affairs

This is a 16-credit program focusing on the language and culture of one of the following four regions or areas: Western Europe, Asia, Africa and Latin America. Students pursuing majors in Business, Marketing, History, Political Science, Anthropology, Modern Languages, and International Relations will find this certificate offers them an opportunity to establish their capacity to analyze and understand the affairs of a particular world region. Certificate candidates must take one language course focusing on business communications. In addition they must complete at least 12 hours of course work focused on the geographic area of their specialization. Students who choose to study abroad will be able to complete a significant portion of their course work for this certificate through one of the university's summer programs. This approach to the certificate is strongly recommended. For the specific course choices available for each of the four regions, contact the Political Science Department, Rhodes Tower 1744, 216-687-4541.

As a prerequisite to pursuing this certificate, students are required to have intermediate-level knowledge of the target language, either from previous study of the language in high school or from courses taken at the university level.

B. Cross-Cultural Communication Certificate

This is a 14- to 15-credit program in which students learn to interact effectively with persons from different cultures. The emphasis is not on one culture, but rather on becoming aware of cultural differences and learning communication strategies to cope effectively with such differences. The program requires a field-study experience which may take place abroad or at home (for example, working with the Hispanic population of Cleveland). This certificate program is designed for students intending to pursue service-oriented careers that involve contact with culturally diverse populations. Such careers include marketing, business administration, management and labor relations, social work, psychology, communication, sociology, political science, education and the many career options in health-care fields.

There are three components to this certificate: 1) two courses in methodologies of cross-cultural communications, 2) one comparative culture course, and 3) a field study. For the specific course choices available contact the Political Science Department, Rhodes Tower 1744, 216-687-4541.

C. Language Skills for Business

This 14- to 16-credit program is designed for students who plan a career in which they will be actively using a language for professional purposes. The program is comprised of three components:

- A language component (8 credits) where students acquire language skills
- A field study component (3 or 4 credits) where students put their language skills into use while interacting more generally with a foreign culture
- A practical experience component (3 or 4 credits) that may take the form of a practicum, internship, or independent study. This last component requires that students use their second language in a professional context that will most probably take place abroad, although experiences at home may also apply.

For the specific course choices available contact the Modern Languages Department, Rhodes Tower 1619, 216-687- 4645.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Go to School of Communication website

Journalism (Certificate)

The Certificate in Journalism at the School of Communication provides undergraduates and professionals with an educational program that exposes students to an array of skills characterizing modern media: writing in various journalistic forms and styles, reporting principles and strategies, editing, ethics, and expertise appropriate to various media. The program introduces students to contemporary practices and theories while integrating traditional skills with emerging technologies, such as the Internet and optional computer graphics and design.

Admission and Completion:

For admission to this certificate program, students must complete the prerequisite course COM 225 (Media Writing) with a minimum grade of B- (B-Minus). A 2.25 GPA must be maintained across all required courses (16 credit hours).

Required Courses:

The certificate requires 16 semester hours of core courses in journalism. A list of optional electives allows those who wish to specialize to also focus their program in broadcast journalism. The following courses make up the certificate program.

Prerequisite:

- COM 225 Media Writing

Required Courses: (12 credit hours)

- COM 326 Advanced Reporting
- COM 425 Editing and Graphics
- COM 426 News Media Laboratory I

Options: (Choose one course for 4 credit hours)

- COM 405 Electronic Journalism
- COM 427 News Media Laboratory II
- COM 490 Internship in Communication

Suggested electives (not included in the certificate courses):

- COM 315 Photojournalism
- COM 347 Political Communication
- COM 359 International Communication
- COM 447 Public Relations Writing
- COM 493 Special Topics in Communication (when appropriate)

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to Department of Anthropology
- Go to Department of History
- Go to Department of Political Science
- Go to Department of Modern Languages

Latin American Studies (Certificate)

The interdisciplinary nature of the program allows students to supplement their majors with relevant skills provided by other disciplines. A History major could demonstrate language and other humanities skills, as well as social science competence, without having to complete a minor in any one (not to mention all) of those areas. Similarly, a Political Science major could add the Latin American Studies certificate to show competence in the humanities.

International business students may well want to concentrate on Latin American Studies to fulfill the requirement for courses outside the College of Business Administration. The certificate program may enhance employment possibilities or satisfy personal interests.

Curricular Philosophy

1. Students must have some common knowledge. This argues for a core, but given the frequency of offerings, it would be impractical to identify mandatory core courses.
2. Students should have the freedom to build a set of courses which provides a personal and professional perspective within the framework of the certificate program.
3. The study of languages is essential for communication across cultures.
4. Study in the country or culture of interest is a preferred avenue to prepare for a career that crosses cultures.
5. Specialization in an area implies effort and achievement beyond minimal standards. A relatively high standard of student work in this certificate affirms the college's quest for continued excellence.

Proposed Curriculum:

(16 semester credits)

A. **Basic Courses** - at least 6 credits must come from among the following, and must be in departments other than the student's major(s):
   - ANT 352 Native South Americans
   - HIS 165 Intro. to Latin American History
   - PSC 333 Latin American Politics
   - SPN 203 Culture and Civilization (predominantly Spanish America)

B. **Electives** - the remaining credits will be chosen from among these courses:
   - ART 388 African-American Art (including Brazilian)
   - HIS 366 Colonial Latin America
   - HIS 367 Modern Latin America

- PSC 326 Politics of the Third World
- SPN 346 Latin American Civilization
- SPN 372 Introduction to Spanish American Literature
- SPN 484 Studies in Spanish American Literature (sample topic: Theater of Protest in Latin America)

(or from among the courses in "A" above not counted toward that requirement)

Other courses may apply toward elective credit with the approval of the Program Committee.

C. All students must fulfill the college foreign-language requirement in either Spanish or Portuguese. In addition, of the courses taken toward the certificate, one must be designated SPN (in Spanish) (or the equivalent in Portuguese). If the student has declared a Spanish major or minor, this requirement will not apply.
D. Foreign study in a Latin American country will be encouraged. Exchange programs will be explored as appropriate through faculty contacts and the director of International Programs. Up to 6 credits of study abroad which is of the nature of the courses in the Basic and Elective curriculum may be applied toward elective credit for the certificate.
E. A minimum cumulative GPA of 2.5 is required for certificate course work. No more than one S/U course may be counted toward the certificate.

For additional information contact: the Department of Anthropology 216-687-2414, the Department of History 216-687-3920, the Department of Political Science 216-687-4541, or the Department of Modern Languages 216-687-4645.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to Art Department
- Go to School of Communication
- Go to Marketing Department

Multimedia Advertising (Certificate)

This is an interdisciplinary program jointly offered by the Department of Art and the School of Communication in the College of Liberal Arts and Social Sciences and the Marketing Department in the Monte Ahuja College of Business. The program provides students with a breadth of information and practical know-how in advertising communication, marketing strategy, graphics, copywriting, and design. It introduces contemporary advertising theories and practices by integrating traditional media, such as print and broadcasting, with new media, such as computer graphics and the Internet.

Required Courses:

The certificate program includes 16 semester hours of core courses in visual art, advertising principles, advertising applications, and marketing analysis. A 2.25 GPA must be maintained across all required courses. The following courses are prerequisites to those required for the certificate.

Prerequisites:

- ART 102 Introduction to 2-D Art and Design
- ART 242 Introduction to Typographic Principles and Design
- MKT 301 Fundamentals of Marketing

NOTE: COM 350 Persuasive Communication and Attitude Change is recommended as a foundation for the COM courses in this certificate program.

Required Core Courses:

- ART 244 Introduction to Macintosh
- COM 360 Principles of Advertising OR
  MKT 441 Integrated Marketing Communications
- COM 450 Media Programming and Research OR
  COM 455 Communication Campaigns OR
  COM 460 Advertising Copywriting and Layout Design
- MKT 420 Consumer Behavior OR
  MKT 431 Marketing Research

Recommended Electives:

- ART 344 Advanced Raster-Image Development
- ART 345 Advanced Vector-Image Development

- ART 444 Advanced Typography and Design
- ART 445 Introduction to Digital Media
- COM 204 Single-Source Video/Audio Production and Editing
- COM 352 Multi-Source Video Production
- COM 357 Principles of Public Relations
- COM 358 Media Law, Economics, and Ethics
- COM 370 Communication Technology and Social Change
- MKT 450 Personal Selling and Sales Management
- MKT 454 Internet Marketing

For more information, please contact the appropriate department: Art Department 216-687-2040, School of Communication 216-687-4630, or Department of Marketing 216-687-4771.

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Prerequisite Courses
- Go to English Department

Professional Writing (Certificate)

The Professional Writing Certificate program is designed to enhance the credentials of students who are preparing for careers in corporate, professional or technical writing, public relations, advertising, or for other careers in which writing plays an important role. The curriculum includes courses in graphics and design, editing, and other aspects of textual production, as well as in various genres of writing. While the Professional Writing Certificate is offered as an all-elective program, students are advised to select a curriculum that represents more than one aspect of textual production.

Students may earn the Professional Writing Certificate as part of their baccalaureate degree program, or they may add it to their credentials if they already have a baccalaureate degree. The Professional Writing Certificate is not awarded to persons who do not have a baccalaureate degree.

Admission to the Professional Writing Certificate Program

The Professional Writing Certificate program is open to all Cleveland State University undergraduates and graduate students, as well as Cleveland State alumni and students and alumni at other colleges and universities. Students must be enrolled in a baccalaureate degree program, or already have a baccalaureate degree, in order to be eligible for a Professional Writing Certificate.

Prerequisites for Completing a Certificate

Some of the courses in the Professional Writing Certificate program have specific course requirements. Students desiring to take these courses as part of the certificate program must, therefore, take the prerequisites, in addition to the 20 credits required for the certificate. See the English Department office staff for the complete description of this certificate program.

To confirm that requirements for the Professional Writing Certificate have been met and to arrange for the certification to appear on student transcript, please contact the department secretary at 216-687-3951.

Professional Writing Certificate Courses

Twenty credit hours, from at least three departments, selected from the following list:

- ART 242 Introduction to Typographic Principles and Design
- ART 244 Introduction to Macintosh
- COM 225 Media Writing
- COM 326 Advanced Reporting
- COM 328 Specialized Writing
- COM 357 Principles of Public Relations
- COM 361 Advertising Copywriting and Layout Design

- COM 405 Electronic Journalism
- COM 425 Editing and Graphics
- COM 490 Internship in Communication
- ENG 201 Intermediate Expository Writing
- ENG 301 Advanced Expository Writing
- ENG 302 Rhetoric of the Law
- ENG 303 Creative Writing
- ENG 307 Style
- ENG 309 Writing Center Practicum
- ENG 310 Traditional Grammar
- ENG 361 Classical Rhetoric
- ENG 397 Portfolio Preparation
- ENG 490 Professional Internship
- UST 403 Cartography and Graphics
- UST 410 Proposal Writing and Program Evaluation

College of Liberal Arts and Social Sciences: Certificate Programs

On this page:

- Back to CLASS Certificates
- Description
- Required Courses
- Go to the School of Communication

Science Writing (Certificate)

The Science Writing Certificate in the School of Communication provides undergraduates and professionals with the opportunity to develop specialized knowledge in media writing, science reporting, the scientific method and contemporary science. The certificate comprises courses in the School of Communication and the Science College. Students who complete this certificate are expected to have a working knowledge of contemporary scientific concepts and methodological approaches appropriate to their study. Students who successfully complete the certificate will have the tools necessary to explain interesting and complex ideas to a general audience.

About Required Courses:

The certificate requires 18 semester hours. SCI 220, Science as a Way of Thinking,* is a course designed for this program. There are 8 hours of core courses in journalism. Students will choose a 6-credit exit project in one of four areas, combining Health Communication, Electronic Journalism, Editing & Graphics or Advanced Public Relations with COM 493,Science Communication.

Admission & Completion:

For admission to this certificate program, students must complete the prerequisite course COM 225, Media Writing, with a minimum grade of B-. The following courses make up the certificate program. A 2.25 GPA must be maintained across all required courses.

Prerequisite:

- COM 225 Media Writing

Required Courses:

- SCI 220 Science as a Way of Thinking
- COM 326 Advanced Reporting
- COM 485 Science Writing

Exit Options:

- COM 493 Special Topics (Science Communication)

  Choose one of the following to be taken in conjunction with COM 493:

- COM 362 Health Communication

- COM 405 Electronic Journalism
- COM 425 Editing & Graphics
- COM 447 Public Relations Writing

(COM 405 and COM 447 have other prerequisites.)

*** Note:** Students must satisfy the university's General Education Requirements in Natural Science. Thus, students must complete SCI 220 in addition to their two GenEd science courses, one of which must include an approved laboratory component.

College of Liberal Arts and Social Sciences: Special Educational Opportunities

In this section:

- Back to CLASS Page
- Articulation Agreements
- Credit by Examination
- Distance Learning
- Independent Study
- Internships
- Off-Campus Course Offerings
- Study Abroad
- Summer Programs
- Teacher Licensure

Articulation Agreements

The College of Liberal Arts and Social Sciences has articulation agreements with Cuyahoga Community College and other area institutions for those students who complete an Associate of Arts degree; several fields apply. The articulation agreement enables qualified students to earn a baccalaureate degree in approximately two years of full-time study and facilitates the transfer of credits. Interested students should contact their adviser in the CLASS Advising Center, at 216-687-5040.

Credit by Examination

Departments within the College of Liberal Arts and Social Sciences can determine if credit by examination is available for a specific area of study. The subject material to be covered, the method of examination, the minimal acceptable score/grade for passing, and the number of semester credit hours to be granted will be determined within the academic departments. Credit by Examination forms are available in the CLASS Advising Center which is located in Chester Building, Room 279.

Distance and eLearning

During the academic year, the College of Liberal Arts and Social Sciences offers some of its regular courses using distance or eLearning. One form of this type of technology is the use of "smart-classrooms" which are located on campus and which permit the interactive video transmission of course lectures (IVDL). Other courses use eLearning, in which some or all of the course material is delivered via the Web. Some eLearning courses meet on campus but use Web supplements; others may require one or more on-campus meetings; others can be completed entirely online. Students should contact the department for information on requirements for specific courses. Courses using these technologies are identified as IVDL or eLearning on CampusNet. All courses delivered in these ways are part of the college's regular course offerings and will fulfill the appropriate university, college, or major-field requirements.

Independent Study

All of the departments of the College of Liberal Arts and Social Sciences can offer credit for independent study conducted under the supervision of a member of the college's faculty. A student should contact the chairperson of the appropriate department or a specific faculty member to inquire about an independent study.

Independent study is arranged by contract with the permission of a specific professor. This contract includes specifications about the quantity and quality of work expected and semester credit hours to be granted. In general, an independent study is intended for scholarly work not included in a department's formal course offerings, and should be offered only when a formal course is not available.

Although neither the university nor the College of Liberal Arts and Social Sciences has a limit on the number of independent study courses which may be applied toward graduation, individual academic departments can limit the number which may be applied toward the major and/or minor.

Internships

Many departments within the College of Liberal Arts and Social Sciences provide students with internship opportunities which will place students into actual work settings that may be related to a student's educational and career interests. Knowledge and skills learned in the classroom setting may be applied to the work situation. Likewise, the experience gained in hands-on activities may be brought back into the classroom and complement the academic component of course work. The academic department retains the right to determine if an internship will be available, requirements for eligibility, number of credits to be granted, and the quantity and quality of work to be completed for a passing grade. In addition to local opportunities, new internships are available for students wishing to study state government in Columbus, Ohio, or national government in Washington D.C. For information on the availability of internships, a student should contact the chairperson of the appropriate academic department.

Off-Campus Course Offerings

The College of Liberal Arts and Social Sciences offers several different off-campus formats. The college offers courses to students in several off-campus locations including the Cleveland State West Center in Westlake.. These off-campus course offerings demonstrate the college's commitment to improving student access to the educational resources of the university.

PSEOP (Post Secondary Education Opportunities Program) permits qualified high-school students to take college-level courses. PSEOP students have enrolled in courses in areas such as art history, early Western art, calculus, English composition, and English literature. (For additional information, contact the CLASS Advising Center at 216-687-5040.)

- See PSEOP website

Study Abroad

Study-abroad opportunities are available through various departments and programs within the College of Liberal Arts and Social Sciences and are coordinated by the Center for International Services and Programs (216-687-3910) and the Office of the Dean of the College. The academic departments which offer study-abroad opportunities include, but are not limited to: Art, History, Modern Languages, Music, Political Science and Social Work.

The study-abroad opportunities have provided Cleveland State University students with a wide variety of experiences, including archaeological field work on the Mayan civilization, culture and language studies in Mexico and Spain, historical studies of WWI battlefields in Europe, social welfare issues in Germany, and contemporary issues in India. In addition, new study abroad programs are being developed with universities in Korea, France, and Turkey.

Also, the Center for International Services and Programs encourages and assists students and other members of the university community in arranging programs of study at foreign institutions in countries such as Brazil, France, Germany, and Poland, as well as other less formal experiences abroad.

The coordinator of the center can assist with financial-aid arrangements, recommend appropriate programs (generally those affiliated with American universities from which credit is transferable) and assist with arrangements. Students who wish to earn credits abroad must consult with and work through the coordinator. Approved courses taken as part of the study-abroad experience may, where appropriate and approved by the academic unit, apply toward university, college, and/or major-field requirements. The option of taking approved courses for graded credits and having these grades count in a student's grade-point average is also available.

More information about study-abroad opportunities can be obtained from the Center for International Services and Programs (216-687-3910).

Summer Programs

During the summer semester, the College of Liberal Arts and Social Sciences will offer many of its regular courses and will make available to students a number of courses of special and timely interest. Also, the college will offer intensive courses in areas such as French or Spanish. An intensive course may permit a student to complete one year of academic work in a specific subject within the summer semester. Consult the summer course schedule for a listing of these offerings.

Also, some of the study-abroad opportunities noted in this section are offered in the summer semester and will be listed in the course schedule.

Teacher Licensure

Secondary Licensure

Students seeking secondary-school teaching licensure are enrolled in the College of Liberal Arts and Social Sciences. They complete one of the major fields which is eligible for state certification, earn their degree from the College of Liberal Arts and Social Sciences, and take the necessary education courses in their junior and senior years under the supervision of the College of Education and Human Services. For a listing of the academic areas eligible for state secondary certification, refer to the chapter for the College of Education and Human Services in this catalog.

College of Liberal Arts and Social Sciences

Major Programs Leading to a Bachelor's Degree

- Bachelor of Arts:
  - Anthropology
  - Art
  - Black Studies
  - Classical and Medieval Studies
  - Communication
  - Communication Management
  - Criminology
  - Dramatic Arts
  - Economics
  - English
  - Film and Digital Media
  - French
  - History
  - International Relations
  - Journalism and Promotional Communication
  - Liberal Studies
  - Linguistics
  - Music
  - Philosophy
  - Political Science
  - Religious Studies
  - Social Science
  - Social Studies
  - Sociology
  - Spanish
  - Women's Studies
- Bachelor of Music
- Bachelor of Social Work

Anthropology

On this page:

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- Requirements for Transfer Students
- Major Field Requirements
- Anthropology Minor
- Native American Studies Minor
- ANT Courses
- Go to Anthropology website

Anthropology (B.A.)
At-a-Glance

Admission to the major: No requirement other than good academic standing in the College of Liberal Arts and Social Sciences

Minimum hours required for major: 40

Minimum hours required for minor: 20

Subfields: Archaeology, biological/physical anthropology, cultural anthropology, and linguistic anthropology

Advising: Students are encouraged to select a faculty adviser when they declare the major or minor in anthropology. *The Handbook for Anthropology Majors and Minors*, available from the Anthropology Department, Chester Building 119, contains comprehensive information regarding program requirements.

Awards: In recognition of academic excellence, the Anthropology High Academic Achievement Award is presented to seniors who have achieved a grade-point average in their major courses at the highest honor level, 3.8 or above.

Student organizations: CSU Anthropology Association, Lambda Alpha (National Anthropology Honorary Society)

Anthropology is the study of the biological and cultural diversity of humanity. American anthropology has four broad subfields. *Archaeology* examines the physical records of past cultures. *Biological or physical anthropology* is concerned with human evolution and modern human biological variation. *Cultural anthropology* focuses on the customs, traditions, and rituals of human societies. *Linguistic anthropology* explores the relationship between language and culture in past and present human societies.

Anthropologists study contemporary and past societies as well as human evolution. They usually specialize in one or more geographic areas of the world, such as Mesoamerica, Oceania, or Africa. They may also focus on particular populations and locales and do field research in those areas. Cleveland State anthropologists have conducted research on the ancient Maya civilization in Belize, the Nambicuara Indians of Brazil, the Amhara of Ethiopia, griots and language in Mali, native healing traditions of India, prehistoric and historic archaeology of Ohio, the paleopathology of the Midwestern and Eastern United States, and many other topics and geographic areas.

The Anthropology Department offers training in all four subfields of anthropology. Specialized training and hands-on experience is available through independent study projects and participation in on-going faculty research projects in archaeology, human paleontology, forensics, visual anthropology, ethnography, and sociolinguistics. Fieldwork experience and laboratory analysis are central parts of the curriculum.

Students may also enroll in a variety of special topics and independent study courses; however, there are limits on the number of credit hours of independent study courses that may be used to fulfill requirements for the major and minor.

Anthropology majors are encouraged to explore other academic disciplines in conjunction with their anthropology focus. Many students complete a second major or a minor in another field of study, such as biology, geology, education, linguistics, psychology, or urban studies. Conversely, a minor in anthropology is an excellent complement to majors in other disciplines. Anthropology courses are also offered in several interdisciplinary programs, including Asian Studies, Black Studies, Gerontological Studies, Linguistics, Native American Studies, and Women's Studies.

Majors who anticipate pursuing graduate study in anthropology should plan to gain substantial foreign-language training as undergraduates. All anthropology students are encouraged to acquire training in computer and information sciences and to develop writing skills that exceed present minimum university requirements.

The bachelor's degree in anthropology prepares students for careers requiring "people skills" and/or an understanding of cultural differences. It is especially useful in professions requiring a strong social-science background, such as law enforcement, social work, and health care. It also provides a strong foundation for graduate study in anthropology and other disciplines.

A graduate degree is required for most professional jobs in anthropology and archaeology. A second undergraduate degree or a graduate degree in another field, such as business, education, political science, sociology, communication, urban studies or public administration, will enhance employment opportunities.

Cleveland State graduates are employed in a variety of fields including community and public relations, education, health and social services, law and law enforcement, and marketing and sales. A significant number of our graduates have traveled to other countries to teach English or serve in the Peace Corps.

Requirements for Transfer Students

Transfer students must complete a minimum of 16 credit hours of anthropology courses at Cleveland State for the major and a minimum of 8 credit hours for the minor.

Major-Field Requirements

A minimum of 40 credit hours is required for the anthropology major. A grade of C or better must be earned in courses used to fulfill requirements for the major.

Required Courses:

Foundations in Anthropology (8 credit hours)

Both courses:

- ANT 101 Human Biocultural Evolution
- ANT 102 Study of Culture

Anthropology Core Courses (16 credit hours)

All four courses:

- ANT 301 Biological Anthropology
- ANT 302 Archaeology
- ANT 303 Cultural Anthropology
- ANT 304 Linguistic Anthropology

Area Studies in Anthropology (4 credit hours)

Any course in this category:

- ANT 351 Native North Americans
- ANT 352 Native South Americans
- ANT 353 Cultures of Africa
- ANT 354 Cultures of Oceania
- ANT 356 Ethiopia
- ANT 357 Peoples and Cultures of Mesoamerica
- ANT 358 Caribbean Societies
- ANT 366 Native Peoples of the Southwest
- ANT 393 Area Studies in Archaeology
- ANT 394 Area Studies in Anthropology
- ANT 453 Advanced Studies in African Cultures
- ANT 494 Advanced Area Studies

Senior Seminar (4 credit hours)

- ANT 495 Senior Seminar in Anthropology

Anthropology Electives (8 credit hours)

- Any anthropology courses at or above ANT 150, with only 4 credit hours in lower-level courses (ANT 150-300).

No more than 8 credit hours of ANT 496 Independent Study may be used to fulfill requirements for the anthropology major.

Anthropology Minor

A minor in anthropology complements majors in disciplines such as biology, geology, linguistics, psychology, and urban studies. A minimum of 20 credit hours is required for the anthropology minor. A grade of C or better must be earned in courses used to fulfill requirements for the minor. The requirements for the Anthropology Minor for students entering CSU in the Fall 2008 semester and thereafter are as follows:

Required Courses:

Foundations in Anthropology (4 credit hours)

Any course in this category:

- ANT 100 Human Diversity
- ANT 101 Human Biocultural Evolution
- ANT 102 Study of Culture
- ANT 103 Ancient Civilizations

Anthropology Core Course (4 credit hours)

Any course in this category:

- ANT 301 Biological Anthropology
- ANT 302 Archaeology
- ANT 303 Cultural Anthropology
- ANT 304 Linguistic Anthropology

Anthropology Electives (12 credit hours)

- Any anthropology courses but no more than 4 credit hours at the 100-149 level; no more than 4 credit hours at the 150-299 level; and no more than 4 credit hours of ANT 496 Independent Study.

Native American Studies Minor

The Native American Studies minor is an interdisciplinary program administered by the Anthropology Department that provides students with an introduction to the indigenous peoples of North, Central, and South America and the diversity of Native American communities. A minimum of 20 credit hours, with no more than 12 credit hours coming from any one department, is required. For further information please contact the Anthropology Department at 216-687-2152 or e-mail anthropology@csuohio.edu.

Required Courses:

Foundations Course (4 credit hours)

- ANT 210 Introduction to Native American Studies

Exploration Courses (a minimum of 16 credit hours, with at least 12 credit hours at the 300 or 400 level)

Any courses listed below:

- ANT 171 Native Civilizations of the Americans
- ANT 293 Topics in Anthropology (when topic is either Maya Hieroglyphic Writing OR Ohio Prehistory)
- ANT 331 North American Prehistory
- ANT 347 Maya Hieroglyphic Writing I
- ANT 349 American Indian Languages
- ANT 351 Native North Americans
- ANT 352 Native South Americans
- ANT 357 Peoples and Cultures of Mesoamerica
- ANT 366 Native Peoples of the Southwest
- ANT 440 Southwest Field Experience
- ANT 447 Maya Hieroglyphic Writing II
- ANT 496 Independent Study in Anthropology (with approval of N.A.S. adviser)

- ENG 210 Native American Literature
- ENG 336 Studies in Non-Western Literature (with approval of N.A.S. adviser)
- ENG 348 Studies in Multicultural Literature (with approval of N.A.S. adviser)
- HIS 310 Indians in American History
- HIS 312 17th Century America
- HIS 316 History of the American West
- HIS 366 Colonial Latin America

Art

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- Major Field Requirements
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    - Art History
    - Art Education
- Art Minor
- Honors Program
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- Evening Program
- ART Courses
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Art (B.A.)
At-a-Glance

Minimum hours required for major: 48

Minimum hours required for minor: 24

Special tracks: Art history, studio art, art education

Advising: Professor in each major track area. Department office phone: 216-687-2040

Student organizations: Student Organization for Fine Arts (SOFA; Student Chapter of American Institute of Graphic Artists (AIGA).

Additional information: Honors program. Scholarships based on merits awarded each year up to full tuition.

The creation of art and the study of its history are complementary activities that deepen a student's understanding of the aspirations of humankind. To develop both artistic skills and critical appreciation of art, the Art Department offers a broad range of courses in studio art, art history, and art education for both non-majors and majors. The Art Department also offers a minor. Art Department courses can be taken for personal enrichment, to fulfill university and college graduation requirements, and to prepare for advanced graduate-level study.

The course offerings are wide-ranging. For example, in studio art a student can select foundation courses in basic design and drawing, then more specialized studies of drawing, painting, sculpture, printmaking, photography, ceramics, and graphic design. In art history, there is an introductory course in art appreciation and surveys of world art, including Western, Asian, and African art. More specialized studies include courses in ancient, Medieval, Renaissance, and modern art; Indian, American and African-American art; Western architecture, cities and planning; and Cleveland's urban environment. Art education offers a course that examines assessment models, and another course that studies art instruction and philosophy in different socio-vocational contexts. By selecting from these offerings, students can pursue a program of study for their general knowledge, professional career, or graduate work.

With the counsel of a faculty adviser in the Art Department, students wishing to major in art may elect a program from one of three curricular options: studio art, art history, and art education. For the Bachelor of Arts degree, all art majors are required to take a core curriculum of subjects for general preparation and additional hours of upper-level courses for diversification.

Requirements for Transfer Students

Transfer and non-degree students should submit a portfolio to the Art Department in order for a placement level to be determined. Students are encouraged to do this during the semester before their anticipated enrollment.

Major-Field Requirements

- Studio Art
- Art History
- Art Education

Art majors in Studio Art and Art History are required to take 24 credit hours of core curriculum courses. The core consists of 12 credit hours in Studio Art and 12 credit hours in Art History. In addition, they must elect a curricular option.

Art Major (Studio Art)

Core Curriculum:

- ART 102 Introduction to 2-D Art and Design (4 credits)
- ART 103 Introduction to 3-D Art and Design (4 credits)
- ART 211 Drawing I (4 credits)
- ART 252 or ART 253 (Western Art) (4 credits)
- ART 281 or ART 286 (Non-Western Art) (4 credits)
- ART 300/400 Art History Elective (4 credits)

Curricular Options:

The option in Studio Art requires satisfactory completion of 24 credit hours beyond the core curriculum. Students take a sequence of 200-, 300-, and 400-level courses in one of the following areas: ceramics, drawing, painting, photography, printmaking, sculpture, or graphic design. Additional studio electives are required in all studio sequences except graphic design. The cumulative total of the core and studio sequence must be 48 credit hours minimum. Studio Art majors concentrating in Ceramics, Drawing, Painting, Photography, Printmaking, and Sculpture must take ART 451 Studio Capstone after completion of upper division courses in their respective studio sequence (may be taken concurrent with final 400 level course in concentration). Studio Art majors concentrating in Graphic Design must take ART 450 Design Studio Capstone after completion of upper division courses in Graphic Design (may be taken concurrent with final 400 level course in concentration).

Art Major (Art History):

Core Curriculum:

- ART 102 Introduction to 2-D Art and Design (4 credits)
- ART 103 Introduction to 3-D Art and Design (4 credits)
- ART 252 Introduction to Early Western Art (4 credits)

- ART 253 Introduction to Western Art Since 1400 (4 credits)
- ART 281 Introduction to Far Eastern Art or ART 286 Introduction to African Art (4 credits)

Curricular Options:

The option in Art History requires satisfactory completion of 28 credit hours beyond the core curriculum. These should consist of 16 credit hours in art history at the 300 or 400 level, 4 of which must be non-Western, and 8 credit hours in Art Seminars (ART 495). Additionally, Art History students must complete ART 485 Art History Theory and Methods (4 credits). The cumulative total of the core and art history sequence must be 48 credit hours minimum. Art majors in Art History must also complete 4 semesters in German, French, an approved alternate language or two-year equivalency.

Art Major (Art Education: Multi-Age Licensure)

The option in Art Education requires satisfactory completion of 36 hours in art studio courses, including a three-course sequence (200, 300, 400 levels) in one studio area and ART 226 OR ART 246, ART 221, ART 231, and ART 242 OR ART 244, 16 hours in art history courses (including ART 252 and ART 253, and ART 281 OR ART 286) and 8 hours in art education courses (ART 341 and ART 441). ART 441 will be the capstone course for Art Education majors. The cumulative total must be 60 hours. Also required for licensure are 39 credit hours in professional education and art education courses taught in the College of Education and Human Services.

Art Minor

In addition to the major program, the Art Department offers a minor in both Studio Art and Art History for those interested in art as a secondary field. All minors are required to take a curriculum of 24 credit hours to be determined in consultation with a faculty adviser in the Department of Art. Art majors cannot also minor in Art.

Studio Art

This option requires satisfactory completion of the following requirements: ART 102, ART 103, either ART 252 OR 253, for a total of 12 credit hours; and one studio sequence including one 200-level, one 300-level, and one 400-level course for a minimum total of 24 credit hours.

Art History

This option requires satisfactory completion of the following requirements: ART 102, ART 103, ART 252 for a total of 12 credit hours; ART 253 plus one 300-level and one 400-level Art History course, (one of which must be non-Western), for a minimum total of 24 credit hours.

Honors Program

Art Department Honors Program Requirements

Attain and maintain CSU Honors Program status. Attain and maintain an average 3.5 GPA in all Art courses. Art majors who are in the Honors Program will be required to take a minimum of 12 additional hours in Art beyond curriculum requirements for the major. Students may fulfill the honors requirement by taking additional Art courses at the 300-400 level as Honors Contract courses (which requires approval of an honors contract petition, signed by both the instructor and the student). In courses that are cross-listed at the graduate level, students would register for the graduate version of the course and follow the course outline for the graduate level. Finally, the capstone requirement for the student's major area would also be an Honors Contract course, with additional requirements agreed upon by the student and the instructor.

Teacher Licensure

The Art Department, in cooperation with the College of Education and Human Services, offers a program leading to a Provisional Multi-Age Licensure requiring completion of courses as prescribed by the Department of Art, with professional education studies as prescribed by the College of Education and Human Services.

For information concerning professional art and art education courses, students should confer with an adviser in the Art Department. For information concerning general education and professional education requirements for licensure, see the College of Education and Human Services chapter of this catalog.

Certificate Program: Graphic Design

This program prepares students, with or without a baccalaureate degree in Art, for the conception and production of two-dimensional graphic designs, with emphasis on the utilization of software for the Macintosh computer. The certificate program is an alternative to a traditional four-year art degree, for creative and self-motivated students who specifically want to develop their technical proficiency, aesthetic sensibility, and design expertise.

The certificate program requires 16 credit hours in the Department of Art. ART 102 (Introduction to 2-D Art and Design) is prerequisite for all other courses. The required courses include ART 244 (Introduction to Macintosh), ART 344 (Advanced Raster-Image Development), ART 345 (Advanced Vector-Image Development), and ART 444 (Advanced Typography and Design) OR ART 445 (Introduction to Digital Media).

The Art Department also participates in interdisciplinary certificate programs in Arts Management and Multimedia Advertising. See Certificate Programs in this chapter of the catalog for additional information.

Evening Program

The Art Department offers a limited selection of courses in the evening each academic year, but at this time students cannot expect to complete a major or minor in Art with evening courses alone.

Black Studies (B.A.)

At-a- Glance

Admission to the major: Good academic standing.

Minimum hours required for the major: 44

Minimum hours required for the minor: 24

Advising: Director of Black Studies

For information: Contact the Black Studies Program (216) 687-3655, www.csuohio.edu/class/blackstudies

The Black Studies major is an interdisciplinary program administered by the office of the **Black Studies Program.** The majority of courses are offered in the College of Liberal Arts and Social Sciences and, therefore, the degree is granted by this college. Black studies courses are also offered in other colleges at Cleveland State University. The scope of the Black studies courses encompasses the study of the history, geography, experiences, contribution, and lifestyles of people of African descent. It also covers the myriad aspects and manifestations of the arts and cultures of African peoples on the continent of Africa, and persons of African descent in the United States of America and in other areas of the African Diaspora.

Students who have an interest in the African Diaspora are encouraged to purse a Black Studies major. Upon graduation, students with a major in Black Studies are welcomed into a variety of occupations and graduate and professional schools. Based on data collected by the National Council of Black Studies, Black Studies graduates do particularly well in social service areas, sales, and media communications.

Students electing to major in Black Studies should inform the director of Black Studies of their intention as early as possible by completing the Black Studies Major Application Form. The form must be submitted to the Black Studies Program for review and approval. Upon acceptance into the major the director of Black Studies and/or a designated person shall serve as a student adviser.

Major-Field Requirements

Required Courses: Black Studies majors are required to complete a minimum of 44 credit hours. The hours must include core hours in each section below (A1 through C3) and Capstone I and Capstone II in section D. A minimum of 28 credit hours must be completed at the 300-400 course level. See website or call the Black Studies Program for the complete listing of courses.

Black Studies Major Curriculum

Core Course Requirements, Sections A, B, C, and D: See course selection below

Section A

A1. BST 200 Introduction to Black Studies
(Required of all majors)

A2. African Diaspora Social Thought
(Select at least one of the following courses)
PHL 252 African American Social Philosophy
HIS 305 Social Thought of African Americans
ANT 270 African American Culture

A3. African Diaspora Religions
(Select at least one of the following courses)
REL 217 Religion in Black America
REL 268 Religion and Culture in Africa
REL 317 Religion Ethics of Malcolm X and Martin Luther King

Section B

B1. History and Cultures of Africa

(Select at least one of the following courses)
ANT 153 Introduction to African Cultures
ANT 353 Cultures of Africa
ANT 356 Ethiopia
ANT 358 Caribbean Societies
ANT 453 Advanced Studies in African Cultures
HIS 375 Pre-Colonial Africa to 1800
HIS 376 Modern Africa Since 1800

B2. The African Diaspora

(Select at least one of the following courses)
ANT 153 Introduction to African Cultures
ANT 353 Cultures of Africa
ANT 356 Ethiopia
ANT 358 Caribbean Societies
ANT 453 Advanced Studies in African Cultures
HIS 366 Colonial Latin America
HIS 367 Modern Latin America
HIS 375 Pre-Colonial Africa to 1800
HIS 376 Modern Africa since 1800
HIS 393 Special Topics in History*

B3. African-American History and Culture

(Select at least one of the following)
ANT 270 African American Culture
HIS 324 Black Is/Black Ain't: Defining Black America
HIS 325 African America since 1945
HIS 326 African American History through Sacred Music
HIS 329 Black Resistance/Age of Jim Crow
HIS 369 Comparative Emancipation
SOC 380 Racial and Ethnic Inequality
SOC 382 African American Communities
UST 302 Contemporary Urban Issues

Section C

C1. Arts and English

(Select at least one of the following courses)
ART 286 Introduction to African Art
ART 386 Regional African Art
ART 388 African American Art
ENG 207 African American Literature
ENG 347 Studies in African American Literature
THE 216 African American Theatre
THE 318 African American Theatre II
MUS 441 History of Jazz

C2. African Politics and Economics

(Select at least one of the following courses)
PSC 227 Power, Authority, and Society in Nonwestern Communities
(cross-listed also as ANT/HIS 227)
PSC 301 Urban Politics and Policy
PSC 323 African Policy

PSC 326 Politics of the Third World

C3. Language and Communication

(Select at least one of the following courses)
COM 332 Interracial Communication
COM 359 International Communications
COM 388 The Rhetoric of Black America
COM 428 Imaging Africa
SPN 293/393/493 Special Topics in Spanish
FRN 375 Readings in Francophone Literature

Section D

D1. Capstone I

BST 402 Senior Seminar

D2. Capstone II

BST 403 Senior Seminar

All majors must take Capstone I and Capstone II. No substitutions are permitted.
Senior Capstone Project options: Research project, travel abroad, or thesis paper.
The project is to be developed in Capstone I and implemented in Capstone II.

Notes: Language Requirement – Spanish, French, or available existing Diaspora languages.

***When topic is related to the history of Diaspora peoples/nations/regions.**

Black Studies Minor

- Go to complete description of Black Studies Minor

Students electing to minor in Black Studies are to inform the director of Black Studies of their intention as early as possible by completing the Declaration or Change of Minor form and submitting it to the director. The director of Black Studies or a person designated by the director shall serve as adviser to students who elect a minor in Black Studies.

The Black Studies minor requires twenty-four (24) credit hours be completed in Black Studies designated courses. All minors must complete BST 200: Introduction to Black Studies in addition to all other requirements stated for the Black Studies Minor.

Classical and Medieval Studies ("CLAM")

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- Approved Course Listing
- Classical and Medieval Studies Minor
- Teacher Licensure
- CLM Courses
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Classical and Medieval Studies (B.A.)
At-a-Glance

Admission to major: Good academic standing

Minimum hours required for major: 36

Minimum hours required for minor: 18

Advising: Freshmen, sophomores, and transfer students, as well as other interested students, should contact the CLAM director as early as possible to be assigned a faculty adviser. The CLAM director is Dr. Laura Wertheimer; RT 1936; phone 216-687-3930; e-mail l.wertheimer@csuohio.edu.

Additional information:

The Classical and Medieval Studies program at Cleveland State University (CLAM) is an interdisciplinary program drawing upon the faculty of eight academic areas within the College of Liberal Arts and Social Sciences: Art, English, History, Modern Languages, Music, Philosophy, Religious Studies, and Dramatic Arts. The CLAM program offers a Bachelor of Arts degree, a minor, and also provides courses for students in other majors with interests in the classical and medieval periods.

Why CLAM?

Students within the CLAM program study a rich range of cultures that existed within the ancient and medieval civilizations of the Mediterranean world, Europe, and the Middle East. These civilizations were dynamic, varied, and constantly changing as they developed internally and as they interacted with each other in the domains of politics, commerce, warfare, religion, philosophy, and the arts. Many of our heterogeneous cultural traditions in North America trace their origins to the civilizations of this period: among them are our democratic ideals and republican institutions, Judeo-Christian and Islamic religious traditions, and many of our traditions in philosophy, the arts, architecture, and literature.

During the course of their work, students learn the particular methodologies and approaches of a variety of academic disciplines, such as history, philosophy, philology, literature and art. Completion of the CLAM major, therefore, also provides students with a solid background in the liberal arts. The CLAM major, aside from satisfying personal interests, prepares students for a range of academic and professional pursuits. CLAM students pursue careers in teaching, law, archeology, religious ministry, education, and museum and archive work, to name a few. Courses taken to satisfy the CLAM major requirements may also meet college or

university general education requirements; a CLAM student will often be able to complete a double major or minor in one of the participating departments by taking only a few additional courses.

Major-Field Requirements

The CLAM major requires 36 credit-hours of coursework, including at least 2 courses in each of three separate academic fields of study; 24 of these credit-hours must be at the 300 or 400 level. Students will design their individual programs of study in consultation with their adviser. Courses must be CLAM-designated classes selected from language courses, literature (English, Modern Languages), History, the arts (Art History, Dramatic Arts, Music), Religious Studies, Philosophy, and Classical and Medieval Studies. The CLAM major has no specific language requirement, but students are advised that most graduate programs in classics or medieval fields have language requirements for admittance. Students planning such graduate work are strongly encouraged to complete their CLASS foreign language requirement with a classical language (Arabic, Greek, Hebrew, or Latin).

The CLAM major student may undertake a senior thesis, to be completed within a four-hour independent study (CLM 498-499). The thesis is recommended for students who wish to continue on to graduate work. Students in the University Honors Program will use the senior thesis as part of their Honors requirements, and the thesis may, upon consultation with the appropriate department, be cross-listed with another department if the student wishes to combine it with an independent study in a second major.

CLAM Honors Program

Requirements for Admission

Junior Standing
Minimum GPA of 3.0

Requirements to Graduate with Honors

1) *GPA*: Students must graduate with a 3.5 average in CLAM-designated courses.

2) *Language Requirement*

The CLAM Honors Program requires students to complete two years of university-level study of a classical language (Arabic, Greek, Latin, or Hebrew) by completing the following courses or their equivalents:

ARB 202
GRK 351
LAT 202
Hebrew: Intermediate-level knowledge as established by the institution where the course was taken.

3) *Honors-Contract Coursework*
Students must take 12-upper division credit hours in CLAM courses, in at least two different academic disciplines, with an honors contract. The honors component of the course will be determined by the instructor in accordance with what is most appropriate for the class, but it is expected that in most instances the honors component will require substantial research and/or primary source analysis.

4) *Senior Thesis*

CLAM Honors students will complete a senior thesis project in a two-semester course sequence: CLM 498, “Senior Thesis Proposal” (1 credit hour) in the first semester, and CLM 499, “Senior Thesis Writing” (3 credit hours) in the second semester. The senior thesis will complete General Education Capstone Experience requirement for the Classical and Medieval Studies major.

Courses in the CLAM Program

Courses are 4 credits unless otherwise indicated. Departmental Special Topics courses with classical or medieval subjects may also apply toward the CLAM degree.

Arabic

- ARB 201 Intermediate Arabic I
- ARB 202 Intermediate Arabic II
- ARB 293/393/493 Special Topics in Arabic (1 to 4 credits)
- ARB 371 Survey of Arabic Literature and Culture

Art History

- ART 252 Introduction to Early Western Art
- ART 353 Islamic Art
- ART 354 Medieval Art
- ART 356 Gothic Art

Classical and Medieval Studies

- CLM 293/393/493 Special Topics in Classical and Medieval Studies (1 to 6 credits)
- CLM 495 Seminar (1 to 3 credits)
- CLM 498 Senior Thesis Proposal (1 credit)
- CLM 499 Senior Thesis Writing (3 credits)

Dramatic Arts

- THE 211 History of the Theater I (3 credits)

English

- ENG 280/320 Classical Literature in Translation
- ENG 318 Analysis of Language (2 or 4 credits; with classical or medieval language): cross-listed with LIN 318 or MLA 310
- ENG 330 Studies in Ancient Literature (crosslisted with MLA 370)
- ENG 331 Studies in Medieval Literature
- ENG 355 Major Themes or Genres (with classical or medieval topic)
- ENG 361 Classical Rhetoric
- ENG 370 Chaucer

Greek

- GRK 301 Accelerated Classical Greek Language and Culture I
- GRK 302 Accelerated Classical Greek Language and Culture II
- GRK 350 Accelerated Classical Greek Language and Culture III
- GRK 351 Accelerated Classical Greek Language and Culture IV
- GRK 396/496 Independent Study in Greek (1 to 4 credits)

Hebrew: Courses in Classical Hebrew offered at Siegal College

- HEC 310 Intermediate Classical Hebrew I (3 credits)

- HEC 360 Learning to Chant the Torah (3 credits)
- HEC 552 Advanced Readings in the Book of Samuel I (3 credits)
- HEC 354 Advanced Readings in the Book of Judges (3 credits)
- HEC 370 Advanced Intermediate Classical Hebrew (3 credits)
- HEC 380 Advanced Readings in the Book of Numbers (3 credits)

History

- HIS 330 History of Ancient Greece
- HIS 331 Rise of Rome
- HIS 333 Barbarians and Slaves in Ancient Greece
- HlS 340 Roman Empire
- HIS 341 Early Middle Ages
- HlS 342 Late Middle Ages
- HIS 343 Social History of the Black Death
- HIS 354 European Women's History (effective Spring 2009)
- HIS 386 History of the Middle East to 1798

Latin

- LAT 200 Latin Bridge (1 to 2 credits)
- LAT 201 Culture and Civilization
- LAT 202 Vergil
- LAT 293/393/493 Special Topics
- LAT 296/396/496 Independent Study in Latin (1 to 4 credits)
- LAT 300 Latin Bridge (1 to 2 credits)

Linguistics

- LIN 318 Language Analysis (2 or 4 credits; with classical or medieval language): cross-listed with ENG 318.

Modern Languages

- MLA 201 Words: An Introduction to Etymology (3 credits)
- MLA 230/330 **Gods, Heroes and Ritual: An Introduction to Greek Myth and Religion**
-
- MLA 370 Athenian Drama in Context (crosslisted with ENG 330)

Music

- MUS 411 Music History I (3 credits)

Philosophy

- PHL 261 Ancient Philosophy
- PHL 262 Medieval Philosophy
- PHL 405 Prominent Philosophers (with classical or medieval topic)
- PHL 410 Studies in the History of Philosophy (with classical or medieval topic)

Religious Studies

- REL 231/ Introduction to the Old Testament
- REL 232 Jesus and the Gospels
- REL 233 Paul and the Development of Christianity
- REL 234The Later New Testament
- REL 236 Introduction to the New Testament
- REL 280 Introduction to Mythology
- REL 285 Myths of Fate and Destiny
- REL 336 Hellenistic and Roman Religions
- REL 341 The Origin of Judaism
- REL 343 Ancient and Medieval Christianity
- REL 374 Paul and Christian Origins
- REL 376 Women in Early Christianity
- REL 380 Ancient Greek Mythology: the Gods
- REL 463 Myths, Legends and Folktales
- REL 466 Images of Jesus in Early Christianity
- REL 468 Advanced Topics in Paul

Classical and Medieval Studies Minor

To earn a CLAM minor, students must complete a minimum of 18 credit-hours in CLAM courses drawn from at least three separate academic fields of study, chosen in consultation with their adviser. At least three of these courses must be at the 300 or 400 level.

Teacher Licensure

Students interested in teaching Latin at the secondary-education level should take as many courses as possible in Latin, and complementary courses in classical history, art, and philosophy. This will best prepare them to complete a post-baccalaureate program leading to Ohio Latin licensure.

School of Communication

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At-a-Glance

Contact Information: School of Communication, 2001 Euclid Avenue, Music and Communication 233, Cleveland, Ohio 44115 • 216-687-4630

Internships: Internship opportunities are available to all students. For more information, please contact Internship Director, Professor Evan Lieberman, at e.a.lieberman@csuohio.edu or 216-687-4637.

Introduction

From television to the Internet and conversations between doctors and patients, communication plays a major role in contemporary society. The School of Communication introduces students to the study of communication, with courses emphasizing the effects of communication on everyday life, dynamics of interpersonal relationships, and career-related skills. Students take courses from a nationally ranked faculty. They gain an appreciation for the social scientific study of communication and obtain training in public speaking, news writing, and film production. The school is a hub of activity, with a laboratory newspaper, digital video communication center, communication research center and a theater arts building.

Degrees

Communication (B.A.)
Communication Management (B.A.) (see the Communication Management section of this catalog)
Dramatic Arts (B.A.) (see the Dramatic Arts section of this catalog)
Film and Digital Media (B.A.) (see the Film and Digital Media section of this catalog)
Journalism and Promotional Communication (B.A.) (see the Journalism and Promotional Communication section of this catalog)

Minor Programs

Communication
Dramatic Arts

Certificate Programs

Three certificate programs sponsored or co-sponsored by the School of Communication are Certificate in Journalism, Certificate in Multimedia Advertising and Certificate in Science Writing.

Journalism Certificate

The Certificate in Journalism at the School of Communication provides undergraduates and professionals with an educational program that exposes students to an array of skills characterizing modern media: writing in various journalistic forms and styles, reporting principles and strategies, editing, ethics, and expertise appropriate to various media. The program introduces students to contemporary practices and theories while integrating traditional skills with emerging technologies, such as the Internet and optional computer graphics and design.

For admission to this certificate program, students must complete the prerequisite course COM 225 (Media Writing) with a minimum grade of B- (B-Minus). A 2.25 GPA must be maintained across all required courses (16 credit hours).

Requirements for the Certificate in Journalism

The certificate requires 16 semester hours of core courses in journalism. A list of optional electives allows those who wish to specialize to also focus their program in broadcast journalism. The following courses make up the certificate program.

Prerequisite:

- COM 225 Media Writing

Required Courses: (12 credit hours)

- COM 326 Advanced Reporting
- COM 425 Editing and Graphics
- COM 426 Lab Newspaper I

Options: (Choose one course for 4 credit hours)

- COM 405 Electronic Journalism
- COM 427 Lab Newspaper II
- COM 490 Internship in Communication

Suggested electives (not included in the certificate courses):

- COM 347 Political Communication
- COM 359 International Communication
- COM 447 Public Relations Writing
- COM 493 Special Topics in Communication (when appropriate)

Multimedia Advertising Certificate

The certificate program includes 16 semester hours of core courses in visual art, advertising principles, advertising applications, and marketing analysis. A 2.25 GPA must be maintained across all required courses. The following courses are prerequisites to those required for the certificate.

Prerequisites:

- ART 102 Introduction to 2-D Art and Design
- ART 242 Introduction to Typographic Principles and Design
- MKT 301 Fundamentals of Marketing

NOTE: COM 350 Persuasive Communication and Attitude Change is recommended as a foundation for the COM courses in this certificate program.

Required Core Courses:

- ART 244 Introduction to Macintosh
- COM 360 Principles of Advertising OR
  MKT 441 Integrated Marketing Communications
- COM 450 Media Programming and Research OR
  COM 455 Communication Campaigns OR
  COM 460 Advertising Copywriting and Layout Design
- MKT 420 Consumer Behavior OR
  MKT 431 Marketing Research

Recommended Electives:

- ART 344 Advanced Raster-Image Development
- ART 345 Advanced Vector-Image Development
- ART 444 Advanced Typography and Design
- ART 445 Introduction to Digital Media
- COM 204 Single-Source Video/Audio Production and Editing
- COM 352 Multi-Source Video Production
- COM 357 Principles of Public Relations
- COM 358 Media Law, Economics, and Ethics
- COM 370 Communication Technology and Social Change
- MKT 450 Personal Selling and Sales Management
- MKT 454 Internet Marketing

For more information, please contact the appropriate department: Art Department 216-687-2040, School of Communication 216-687-4630, or Department of Marketing 216-687-4771.

Science Writing Certificate

The Science Writing Certificate at the School of Communication provides undergraduates and professionals with the opportunity to develop specialized knowledge in media writing, science reporting, the scientific method and contemporary science. The certificate comprises courses in the School of Communication and the Science College. Students who complete this certificate are expected to have a working knowledge of contemporary scientific concepts and methodological approaches appropriate to their study. Students who successfully complete the certificate will have the tools necessary to explain interesting and complex ideas to a general audience.

About Required Courses:

The certificate requires 18 semester hours. Science as a Way of Thinking (SCI 220)* is a course designed for this program. There are 8 hours of core courses in journalism. Students will choose a 6-credit exit project in one of four areas, combining Health Communication, Electronic Journalism, Editing & Graphics or Advanced Public Relations with COM 493 Science Communication.

Admission & Completion:

For admission to this certificate program, students must complete the prerequisite course Media Writing (COM 225) with a minimum grade of B-. The following courses make up the certificate program. A 2.25 GPA must be maintained across all required courses.

Prerequisite:

- COM 225 Media Writing

Required Courses:

- SCI 220 Science as a Way of Thinking
- COM 326 Advanced Reporting
- COM 485 Science Writing

Exit Options:

- COM 493 Special Topics (Science Communication)

  Choose one of the following to be taken in conjunction with COM 493:

- COM 362 Health Communication
- COM 405 Electronic Journalism
- COM 425 Editing & Graphics
- COM 447 Public Relations Writing

(COM 405 and COM 447 have other prerequisites.)

*** Note:** Students must satisfy the university's General Education Requirements in Natural Science. Thus, students must complete SCI 220 in addition to their two GenED science courses, one of which must include an approved laboratory component.

Communication (B.A.)

At-a-Glance

Minimum hours required for major: 40

Minimum hours required for minor: 20

Joint Program Available: Political Communication with Department of Political Science

Evening Program: Yes

Foreign Study Program: Yes

Advising: Contact the School of Communication office 216-687-4630

Financial aid: Scholarship assistance awarded to students in the School of Communication.

- W.O. and Naomi E. Walker Scholarship
- Max Axelrod Scholarship. *(Students with journalism emphasis)*
- Donald Marcus Scholarship. *(Students with advertising emphasis)*
- Jana Stone Scholarship. *(Public relations emphasis)*
- Raymond Dorsey Scholarship. *(Physically disabled student with a preference for a journalism sequence)*

Scholarships are awarded annually. Call the main office at 216-687-4630 for information.

The Bachelor of Arts in Communication: The major in Communication provides students with a critical understanding of the complex, vital role that communication plays in contemporary life. Coursework offers students a host of intellectual, problem-solving, and career-related skills. In contemporary society, which is characterized by a dazzling array of new technologies, rapid social change, instant messaging, and dynamic interpersonal relationships, it is imperative that students appreciate the ways communication influences everyday life. Students who obtain a major in communication will take classes from a nationally ranked faculty and gain exposure to communication specialists who work in public and private sector jobs in Northeast Ohio. The major lays a strong general foundation in communication processes and effects.

More specialized training is available in the fields of Journalism and Promotional Communication, Film and Digital Media, and Communication Management. The School of Communication offers these three areas as separate bachelor's degree programs.

Major-Field Requirements

All majors are required to take a minimum total of 40 semester credit hours in Communication and maintain a 2.25 GPA across all communication courses to graduate with a major in Communication. All School of Communication Majors are required to successfully complete Com 101 (Principles of Communication) and Com 303 (Communication Inquiry) with a minimum grade of C. Two core courses, three theory courses, one capstone and four communication elective courses are required for the communication major. Transfer students must obtain at least 20 credit hours from Communication courses at Cleveland State University.

*Communication Major Required Courses **(8 credit hours)*****:**

- COM 101 Principles of Communication

- COM 303 Communication Inquiry

Required Communication Major Theory Courses ***(12 credit hours)*****:**

- COM 211 Communicating in Personal Relationships
- COM 226 Mass Media and Society
- COM 327 Media Criticism
- COM 330 Nonverbal Communication
- COM 345 Film Theory
- COM 346 Communication in Organizations
- COM 347 Political Communication
- COM 350 Persuasive Communication and Attitude Change
- COM 359 International Communication
- COM 362 Health Communication
- COM 366 Communication and Conflict
- COM 370 Communication Technology & Social Change
- COM 380 Family Communication

Required Communication Major Capstone Courses ***(4 credit hours)*****:**

- COM 401 Advanced Video/Audio Production
- COM 405 Electronic Journalism
- COM 411 Film Production II
- COM 427 Laboratory Newspaper II
- COM 444 Mediation and Collaborative Problem-Solving
- COM 447 Public Relations Writing
- COM 448 Managing Organizational Teams
- COM 449 Advanced Issues in Health Communication
- COM 450 Media Programming and Research
- COM 455 Communication Campaigns
- COM 475 Senior Seminar in Managing Communication

Communication Major Electives ***(16 credit hours); See course listing for all Communication classes. A course can fulfill only one school requirement.***

Communication Minor

All minors are required to take a total of 20 credit hours in communication courses. Eight hours are to include COM 101 and COM 303. A total of 12 hours should include 4 hours of a theory course and 8 hours of elective courses. Transfer students must obtain at least 12 credit hours from communication courses at Cleveland State University.

Please note: Courses may only fulfill one requirement for the communication major and minor. Capstone requirements must be taken at Cleveland State University. Transfer credits do not meet Capstone requirements. Only four credits of COM 490 Internship in Communication and COM 496 Independent Study count toward the communication major. Any additional credits may count as university elective credits.

School of Communication

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- Mediation Sequence
- Organizational Communication Sequence
- Relational Communication Sequence
- Go to School of Communication website

Communication Management (B.A.)

At-a-Glance

Minimum hours required for major: 40

Special tracks: Two areas of concentration are available within the Communication Management major: health & mediation and organizational communication & leadership sequences.

Career information: A major in Communication Management can prepare students for a variety of careers involving organizational consulting, health care advocacy, dispute resolution, and management of communication divisions of major companies. Organizations need people who are sensitive to communication problems and can use their expertise to mediate disputes. Health-care organizations seek employees with sensitivity to doctor-patient communication and appreciation for the cultural context in which health communication takes place. Corporations seek specialists in team-building and leadership, aspects of the communication management major. Expertise in communication management should also be helpful to those who want to apply their expertise to solving social problems and improving quality of life in Northeast Ohio.

Evening Program: No

Advising: Contact the School of Communication office 216-687-4630 for information.

Financial Aid: Scholarship assistance awarded to students in the School of Communication. Scholarships are awarded annually. Call the main office at 216-687-4630 for information.

- W.O. and Naomi E. Walker Scholarship
- Max Axelrod Scholarship. *(Students with journalism emphasis)*
- Donald Marcus Scholarship. *(Students with advertising emphasis)*
- Jana Stone Scholarship. *(Public relations emphasis)*
- Raymond Dorsey Scholarship. *(Physically disabled student with a preference for a journalism sequence)*

Student organizations: Lambda Pi Eta Honor Society and Communication Problem Solvers

The Bachelor of Arts in Communication Management: The Communication Management major offers students a unique combination of academic excellence and career-related training. Our faculty are among the finest in the nation, recently ranked eighth in the country in communication research productivity. This program acquaints students with major theories of human communication, research applications to specific contexts, and insights as to how communication can be used successfully in everyday life. The course work also develops skill sets critical to students' career aspirations.

Major-Field Requirements

Students must complete a minimum of 40 credits and maintain a 2.25 GPA in Communication to graduate with a major in Communication Management. All School of Communication Majors are required to successfully complete COM 101 (Principles of Communication) and COM 303 (Communication Inquiry) with a minimum grade of C. Each sequence consists of two core courses, seven required sequence courses and one elective course. Transfer students must complete at least 20 credit hours and the capstone course from Communication courses at Cleveland State University.

Communication Management Major Required Courses (8 credit hours):

- COM 101 Principles of Communication
- COM 303 Communication Inquiry

Health and Mediation Sequence

Students concentrating in this area are required to take 32 credits of the following courses in the health communication sequence.

Required Health and Mediation Sequence Skill Courses (8 credit hours); choose two of the following:

- COM 240 Professional Communication
- COM 242 Public and Professional Speaking
- COM 341 Group Process and Leadership
- COM 379 Communication and Negotiation

Required Health and Mediation Sequence Dynamics Courses (8 credit hours); choose two of the following:

- COM 211 Communicating in Personal Relationships
- COM 330 Nonverbal Communication
- COM 350 Persuasive Communication and Attitude Change

Required Health and Mediation Sequence Theory Courses (8 credit hours):

- COM 362 Health Communication
- COM 366 Communication and Conflict

Health and Mediation Sequence Capstone (4 credit hours): choose one of the following:

- COM 444 Mediation and Collaborative problem solving
- COM 449 Advanced Issues in Health Communication

Health and Mediation Sequence Electives (4 credit hours):

- COM 331 Gender and Communication
- COM 332 Interracial Communication
- COM 346 Communication in Organizations
- COM 348 Intercultural Communication
- COM 368Leadership Communication in Organizations
- COM 380 Family Communication
- COM 448 Managing Organizational Teams

- COM 475 Communication & Training in Organizations
- COM 490 Internship in Communication

Organizational Communication and Leadership Sequence

Students concentrating in this area are required to take 32 credits of the following courses in the organizational communication sequence.

Required Organizational Communication and Leadership Sequence Skill Courses (8 credit hours); choose two of the following:

- COM 240 Professional Communication
- COM 242 Public and Professional Speaking
- COM 341 Group Process and Leadership
- COM 379 Communication and Negotiation

Required Organizational Communication and Leadership Sequence Dynamics Courses (8 credit hours); choose two of the following:

- COM 211 Communicating in Personal Relationships
- COM 330 Nonverbal Communication
- COM 350 Persuasive Communication and Attitude Change
- COM 366 Communication and Conflict

Required Organizational Communication and Leadership Sequence Theory Courses (8 credit hours):

- COM 346 Communication in Organizations
- COM 368 Leadership Communication in Organizations

Organizational Communication and Leadership Sequence Capstone (4 credit hours): choose one of the following:

- COM 448 Managing Organizational Teams
- COM 475 Communication & Training in Organizations

Health and Mediation Sequence Electives (4 credit hours):

- COM 331 Gender and Communication
- COM 332 Interracial Communication
- COM 348 Intercultural Communication
- COM 362 Health Communication
- COM 380 Family Communication
- COM 444 Mediation & Collaborative Problem Solving
- COM 449 Advance Issues in Health Communication
- COM 490 Internship in Communication

Sociology: Criminology

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Criminology (B.A.)
At-a-Glance

Admission to major: No requirement other than good academic standing in the College of Liberal Arts and Social Sciences.

Minimum hours required for major: 38-41 (including SOC 101, 201, 250, 344, 351, 354, 400)

Minimum hours required for minor in Criminal Justice: 23 (see below)

Advising: Undergraduate Adviser and Student Handbook.

Student Honorary Society: Alpha Kappa Delta

Awards: Annual Distinguished Sociology/Criminology Student Award

Student Organizations: Sociology/Criminology Club

For Information: Contact the Sociology and Criminology Department. Phone: 216-687-4500

Criminology is the scientific study of crime and its causes. The major is interdisciplinary but draws primarily from the discipline of sociology. Students who complete the degree receive a broadly based liberal-arts education that hones their writing skills, research abilities, and critical thinking. Above and beyond the teaching of basic aspects and preparing students for careers in the criminal justice system, the program is designed to instill a scientific and systematic orientation towards this subject matter via courses in theory and research methods.

Students pursuing a major in Criminology take core courses in the fundamentals of criminology, additional courses focusing on key areas and issues in the study of crime, and courses in research methods. This program familiarizes students with the principal theories and research findings of criminology and is designed to develop critical-thinking abilities and the knowledge, research and writing skills central to a liberal-arts education. It prepares students for a wide variety of careers in applied criminal justice fields such as corrections, parole or policing, the field of justice research and in social-service settings. In addition, students who complete this concentration are well prepared for graduate work in criminology, one of the social sciences or law.

For more information, call the Sociology and Criminology Department, 216-687-4500.

Major-Field Requirements

In establishing the requirements for the major in Criminology, the Department of Sociology and Criminology maintains these objectives: to introduce students to interdisciplinary perspectives on various aspects of crime, to teach the principles of sociological research and the fundamental skills needed to use them, and to prepare students for advanced training at the professional and graduate-school levels.

A minimum of 38 hours is required for a major. The hours must include these core courses:

- SOC 101 Introduction to Sociology
- SOC 201 Race, Class, and Gender
- SOC 250 Introduction to Criminology
- SOC 344 U.S. Criminal Justice System
- SOC 351 Criminological Theory
- SOC 354 Quantitative Sociological Research
- SOC 400 Capstone Course

In addition, students must complete four electives from the two groups listed below, at least two of which must be from Group A:

- Group A Electives: SOC 260, SOC 311, SOC 335, SOC 341, SOC 342, SOC 345, SOC 346, SOC 347, SOC 348, SOC 349, SOC 355, SOC 360, SOC 394, SOC 491
- Group B Electives: ANT 401, ECN 350, PHL 341, PHL 453, PSC 310, PSC 311, PSY 345, SWK 240, SWK 259, SWK 341, SWK 342, SWK 371, SWK 374, SWK 375, SWK 470

Internships in Criminology:

Students may qualify for a 4-credit internship in Criminology (SOC 491) by achieving an overall GPA of 3.0 in the major or minor, completion of the required courses, and junior or senior standing. Students who qualify must arrange an internship with the departmental coordinator (call 216-687-4500). Internships may be for up to 8 credit hours. However, only 4 of these hours may be applied toward the requirements for the major.

Honors Program

The honors program is intended as an additional experience for criminology majors who have high GPAs and would like more in-depth training in sociology. A variety of honors experiences tailored to students' interests is offered including additional work in an established course, enrollment in a graduate course, participation in a faculty member's research project, supervised independent research, and service learning. Students must apply for the honors program no later than the end of their junior year; have completed 2 of the 4 upper-level core courses and a minimum of 60 credit hours; and have an accumulated GPA of 3.3 or higher in all classes. To graduate with Honors in Criminology, a student must participate in the honors program for two semesters, at least 4 hours per semester; receive a grade of at least B+ in each course taken for honors credit; and graduate with at least a 3.3 overall GPA. For further information contact the Department of Sociology and Criminology office, 216-687-4500.

Minor Program: Criminal Justice

Students wishing to minor in Criminal Justice must complete three core, one law elective, and three general elective courses from the list below for a minimum of 23 semester credit hours:

1. **Criminal Justice Core Courses**
    - SOC 250 Introduction to Criminology
    - SOC 344 U.S. Criminal Justice Systems
    - SWK 240 Administration of Justice
2. **Law Electives:**
    - PSC 310 Constitutional Law
    - PSC 311 Civil Rights and Civil Liberties
    - SOC 342 Sociology of Law
    - SWK 259 The Child, the Family and the Law
    - SWK 375 Criminal Law
3. **Elective Courses:** (A course taken as a law elective cannot also be counted as a general elective).
    - ECN 350 Economics of Crime and Punishment
    - ECN 450 Economics of Law
    - PHL 341 Philosophy of Law
    - PHL 453 Social, Political, and Legal Philosophy
    - PSC 310 Constitutional Law
    - PSC 311 Civil Rights and Civil Liberties
    - PSY 345 Abnormal Psychology
    - SOC 311 Individual and Society
    - SOC 341 Juvenile Delinquency
    - SOC 342 Sociology of Law
    - SOC 344 U.S. Criminal Justice Systems
    - SOC 345 Social Control
    - SOC 346 Corporate and Governmental Deviance
    - SOC 347 Sociology of Policing
    - SOC 348 Sociology of Corrections
    - SOC 349 Women and Crime
    - SOC 335 Drugs, Alcohol and Crime
    - SOC 355 Race, Class and Crime
    - SOC 360 Sociology of Interpersonal Violence
    - SOC 394 Special Topics in Criminology (various)
    - SOC 491 Criminology Internship
    - SWK 259 The Child, the Family and the Law
    - SWK 341 Corrections: Institutional and Community-Based
    - SWK 342 Prisoners' Rights
    - SWK 371 Constitutional Criminal Procedure
    - SWK 374 Law Enforcement in Society
    - SWK 375 Criminal Law
    - SWK 470 Problems and Issues in Criminal Justice

For additional information, contact the chairperson of the Department of Sociology and Criminology at 216-687-4500.

Note: A criminal justice certificate is also available. See College Certificate information.

Theatre and Dance

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Dramatic Arts (B.A.)

At-a-Glance

Minimum hours required for major: 42

Minimum hours required for minor: 22

The major in Dramatic Arts is designed to enable students to study theatre for the purpose of entering the professional theatre, preparing for graduate work with the expectation of teaching, or building a base which is useful in association with the fields of recreation, public relations, community development, and human communication.

Theatre at Cleveland State is viewed in the liberal-arts tradition as being part of the cultural heritage of our civilization. In both its practice and its content, theatre is relevant to 21st-century life in all phases. Through classes and strong production orientation, students with this major can expect improvement in oral expression; motor skills; increased understanding of themselves and others; and illumination of major social, political, philosophical, moral, and psychological issues.

Major-Field Requirements

All Dramatic Arts majors are required to successfully complete a minimum of 42 credit hours consisting of the core curriculum (23 hours) and one specialization track (19 to 26 hours).

Core Curriculum to be completed by graduation:

- THE 101 Production Practicum (6 credits with a minimum of 2 hours each in technical and performance activity)
- THE211 History of the Theatre I (3 credits)
- THE212 History of the Theatre II (3 credits)
- THE213 History of the Theatre III (3 credits)
- THE 225 Principles of Acting (4 credits)
- THE 491 Comprehensive Exam (4 credits)

TOTAL 23 credit hours

Specialization tracks:

The specialization tracks are designed to offer the student the main areas of concentration demanded by professional theatre or expected of the modern academician.

1. Acting track:

The acting track focuses on acting skills while emphasizing the relation of acting to the ancillary disciplines that directly affect the actor. An actor should know and understand the work of the director and the various designers and artisans of the "technical theatre" in order to meet the challenges of a professional career or graduate education.

- THE 200 Intro to Tech Theatre (4 credits)
- THE321 Voice and Movement (4 credits)
- THE325 Intermediate Acting (4 credits)
- THE 331 Principles of Directing (4 credits)
- THE 381 Theatre Organization and Management (4 credits)
- THE 425 Advanced Acting (4 credits)

TOTAL 24 credit hours

2. Directing track:

The successful director is one who is able to make informed decisions about every aspect of production from acting and design to movement and staging. The emphasis on directing courses augments a broad range of necessary skills courses needed to pursue an academic or professional career.

- THE 200 Intro to Tech Theatre (4 credits)
- THE 300 Stage Management (3 credits) *or*
  THE 301 Lighting Design (3 credits) *or*
  THE 351 Theatre Makeup (3 credits) *or*
  THE 352 Creative Dramatics (3 credits)
- THE 325 Intermediate Acting (4 credits) *or*
  THE 425 Advanced Acting (4 credits) *or*
  THE 461(ENG 305) Playwriting (4 credits)
- THE 331 Principles of Directing (4 credits)
- THE 332 Advanced Directing (4 credits)

TOTAL 19 credit hours

3. Technical Theatre track

A designer needs to know the various collaborations necessary to the creative process. A successful will understand the actor's and director's process in order to successfully create and communicate his or her ideas. Practical experience and a portfolio are essentials for both the professional theatre and admission to a graduate program in technical theatre.

- THE 200 Introduction to Technical Theatre (3 credits)
- THE 301 Lighting Design (3 credits)
- THE 331 Principles of Directing (4 credits)

  Subtotal: 11 credit hours

a. Costuming subtrack:

- THE 391 Costume History & Design (3 credits)
- THE 496 Construction & Drafting IS (3 credits)
- THE 496 Millinery and Accessories IS (2 credits)

Costume Subtotal: 8 credit hours

b. Scene Design subtrack

- THE 371 Scene Design I (4 credits)
- THE 372 Scene Design II (4 credits)

Scene Design Subtotal: 8 credit hours

TOTAL Technical Theatre Track 19 to 21 credit hours

4. Playwriting track:

"Playwrights who know nothing of the practical aspects of the theatre are writing for the closet not the stage." -- George Bernard Shaw. This major track, designed in collaboration with Creative Writing, will be a unique program focusing on plays in performance.

- THE 200 Intro to Tech Theatre (4 credits)
- ENG 303 Creative Writing (4 credits)
- THE 321 (ENG 351) Contemporary Theatre (4 credits)
- THE 331 Principles of Directing (4 credits)
- THE 461 (ENG 305) Playwriting (4 credits)

TOTAL 20 credit hours

5. Dramatic Arts Content for Teaching track:

This track is designed for students contemplating a career in teaching at the elementary, middle-school, or high-school levels. This course of study is to be completed before commencing a Post-baccalaureate Teacher Preparation Program in the College of Education and Human Services. (See note below.)

- THE 200 Introduction to Technical Theatre (4 credits)
- THE 300 Stage Management (3 credits) *or*
  THE 391 Costume History & Design (3 credits)
- THE 331 Principles of Directing (4 credits)
- THE 352 Creative Dramatics (3 credits)
- THE 353 Children's Theatre (3 credits) *or*
  THE 354 Puppet Production (3 credits)
- THE 381 Theatre Organization and Management (4 credits)

TOTAL 21 credit hours

Note: Students wishing to pursue a career teaching dramatic arts should investigate the certification or licensing requirements of the state in which they would like to teach. Post-baccalaureate Teacher Preparation Programs are available through the College of Education and Human Services, which offers a variety of teacher preparation programs for college graduates who have had little or no professional training in education. While most of these programs lead to licensure, most of the course work they require cannot be applied to a

graduate degree. The course work in the professional education track is designed to fulfill licensing requirements for a teacher of the arts in Ohio in the coming years. Currently no undergraduate program for teaching theatre exists in the College of Education and Human Services at Cleveland State.

Drama Minor

Requirements

Minimum Total

22 credit hours total (minimum):

- THE 101 Production Practicum (2 credits)
- THE 200 Introduction to Technical Theatre (3 credits)
- THE 211 Theatre History I (3 credits) *or*
  THE 212 Theatre History II (3 credits) *or*
  THE 213 Theatre History III (3 credits)
- THE 225 Principles of Acting (4 credits)

From the following groups (at least one from each group) for a total of 12 hours:

Group A

- THE 300 Stage Management (3 credits)
- THE 301 Lighting Design (3 credits)
- THE 351 Theatre Makeup (3 credits)
- THE 371 Scene Design I (4 credits)
- THE 391 Costume History and Design (3 credits)

Group B

- THE 216 African American Theatre (3 credits)
- THE 321 Contemporary Drama (4 credits)
- THE 381 Theatre Organization and Management (4 credits)
- THE 451 Theatre Criticism (4 credits)

Group C

- THE 325 Intermediate Acting (4 credits)
- THE 326 Voice and Movement (4 credits)
- THE 331 Principles of Directing (4 credits)
- THE 354 Puppet Production (3 credits)
- THE 461 Playwriting (4 credits)

DANCE MINOR

Requirements

Minimum hours required for minor: 28

A. <u>TECHNIQUE</u> Choose 12 or more credits, each course may be repeated twice for credit. Must include <u>both</u> modern and ballet courses:

- DAN 240 Modern Dance III (must be taken a min. of 2 semesters)
- DAN 340 Modern Dance IV 2
- DAN 250 Ballet III (must be taken a min. of 2 semesters)
- DAN 350 Ballet IV 2

Choose an additional 2 credits:

- DAN 146 Jazz Dance I
- DAN 154 African Dance
- DAN 147 Tap Dance I
- DAN 148 Tap Dance II

B. **<u>PERFORMANCE/ PRACTICUM</u> Choose 6 or more credits:**

- DAN 300 Modern Dance Company
- DAN 100 Performance Practicum
- DAN 496 Independent Study
- DAN 410 Teaching Dance
- DAN 301 Dance Composition

C. **<u>THEORY</u> Choose a minimum of 5 credits:**

- DAN 201 Introduction to Dance
- DAN 499 Seminar (minimum of 2 times)

D**. <u>DANCE ELECTIVES</u> Choose 3 credits**.

Total credits for Dance minor: 28

Economics

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Economics (B.A.)

At-a-Glance

Admission to major: No requirements other than good academic standing in the College of Liberal Arts and Social Sciences

Minimum hours required for major: 32 hours of course work in economics (that includes a capstone course) as well as additional hours in statistics (3 hours), mathematics (8 hours) and computer science course IST 203.

Minimum hours required for minor: 16

Advising: Advising is done by faculty members in the Department of Economics. Students who are thinking of majoring in economics should contact the chairperson of the Economics Department's Undergraduate Committee. Phone: 216-687-4520.

Student organization: Omicron Delta Epsilon

Additional information: The Economics Department offers an honors program to those who have maintained a GPA of 3.3 or better both in overall course work and in major-field requirements. An annual award is made to the year's most outstanding senior economics major. A cash prize has been given to the recipient of this award in recent years. A Business Economics major is available to students in the College of Business Administration. Secondary teacher certification in economics (as a second teaching field) is available to students in the College of Education and Human Services. Non-majors should consult the Economics Department about elective courses to complement their majors.

A knowledge of economics is essential to understand the economic issues confronting individuals, firms, and society. Economics is an appropriate major for those wishing to pursue careers in business, law, journalism, and industrial relations, as well as for those who wish to become professional economists.

An economics major provides an excellent background for graduate study in economics and other related fields. Economists are employed by universities; corporations; government agencies at the federal, state and local levels; labor organizations; trade associations; and professional societies. Economics majors are trained to develop the analytical skills needed to understand economic problems and to arrive at possible solutions.

Major-Field Requirements

Economics majors in a regular B.A. program must complete a total of 31 hours of course work in economics (that includes a capstone course) as well as additional hours in statistics (3 hours), mathematics (8 hours), and computer science course IST 203.

Core Courses. Core requirements are fulfilled by completing 12 hours from the following courses:

- ECN 201 Principles of Macroeconomics
- ECN 202 Principles of Microeconomics
- ECN 301 Intermediate Macroeconomics
- ECN 302 Intermediate Microeconomics

Economics Electives. In addition to the core courses for the economics major, with the exception of students in the Honors Program, five economics elective courses amounting to at least 19 credit hours must be completed. These elective courses should be chosen in consultation with a department adviser.

Capstone Requirement. Students must satisfy the capstone requirement by taking one of the following elective course: ECN 485, ECN 482, ECN 441 or ECN 450. This capstone course will count toward meeting the 19 credit hours of economics electives requirement.

Statistics. Introductory course in statistics (MTH 147, OSM 201, PSY 311, SOC 354, or equivalent).

Mathematics. Students must complete MTH 148-149 or MTH 181-182. For students planning to pursue graduate studies in economics, additional courses in mathematics are recommended.

Computer Literacy Requirement

- IST 203 Software Tools for Personal Productivity, 3 credit hours

Business Economics Major

The College of Business Administration, in cooperation with the Economics Department, offers a program in business economics which leads to a B.B.A. degree. For further information on the business economics major, see the section describing programs in the College of Business Administration.

Economics Minor

Students working toward undergraduate degrees from other departments and colleges at Cleveland State University are eligible to earn a minor in economics to complement their baccalaureate degrees from other disciplines. A minor in economics consists of 16 hours of three required and two elective courses.

Required Courses: ECN 201, ECN 202, and either ECN 301 or ECN 302.

Elective Courses: Seven hours of 300- to 400-level economics courses.

Honors Program

Students in the Economics Honors Program must complete the core requirements, statistics requirement, MTH 181 and MTH 182, and the computer literacy requirement (IST 203) for economics majors; however, the elective requirement is fulfilled by completing ECN 322, ECN 355, ECN 497 (Honors Essay), and three

additional economics electives which have as a prerequisite at least one course in principles of economics. For students planning to pursue graduate studies in economics, additional courses in mathematics are recommended.

Capstone Requirement. Student must satisfy the capstone requirement by taking one of the following elective course: ECN 485, ECN 482, ECN 441 or ECN 450. This capstone course will count toward meeting the 23 credit hours of economics electives requirement.

An honors candidate must have and maintain a 3.3 overall grade-point average and a 3.3 GPA in major-field requirements. Information about the honors program will be provided to all students at the time a major is declared in economics. For further information, contact the Department of Economics.

English

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- Professional Writing Certificate
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English (B.A.)
At-a-Glance

Admission to major: Completion of ENG 240, 241 (or equivalent)

Minimum hours required for major: 40

Minimum hours required for minor: 16

Special tracks: The English major emphasizes the study of British and American literature. Tracks or concentrations are available in literature, creative writing, multicultural studies, and secondary English licensure.

Advising: Contact Dr. Ted Lardner, Director of Undergraduate Studies, at 216-687-5428.

Student activities: Student organization: *Whiskey Island* (creative writing magazine). Poetry Center activities include workshops and readings by students, writers in the Cleveland community, and distinguished visiting writers.

Scholarship information: Each year, the department offers *Plain Dealer* awards to recognize excellence in expository writing, tuition scholarships as prizes in creative writing, as well as the Gulbenkian award, a,cash prize to honor a distinguished graduating senior.

Career information: Students preparing to teach English in high school must meet the State of Ohio licensure requirements. Please contact the College of Education and Human Services for further information on licensure. For students preparing for careers in writing, editing, and publishing, the department offers a creative writing concentration. The English major is an ideal liberal arts major for students desiring to develop capabilities in research, writing, critical thinking, and textual analysis combined with the study of literature and language.

Freshman English Placement

Consult the course description section of this catalog under English for information about placement examinations and placement of students into basic writing and freshman English courses.

Major-Field Requirements

Courses required for the major are as follows (40 credits minimum):

1. Introductory courses (8 credits): ENG 240, 241; students must earn a minimum grade of C in each course to fulfill the major requirement.
2. The completion of one of the English Department's concentrations or tracks
3. Senior seminar: ENG 495 (4 credits minimum)

English majors are advised to take ENG 240 and ENG 241 before taking courses numbered ENG 300 and above.

All students should initially consult the Director of Undergraduate Studies. Transfer students must see the Director of Undergraduate Studies for a transfer credit evaluation.

Concentrations

Literature Concentration

1. Introductory courses (8 credits): ENG 240, 241
2. Three courses (12 credits): ENG 321 British Literature I, ENG 322 British Literature II, ENG 342 American Literature Survey
3. Electives: 16 credits in courses numbered ENG 300 and above
4. Senior seminar: ENG 495 (4 credits minimum)

Creative Writing Concentration

1. Introductory Courses (8 credits): ENG 240, 241
2. Introduction to Creative Writing (4 credits): ENG 203
3. English 391, 392, and 394 may be taken up to two times (*but only two times*) each and be counted towards the major, but English 380 *may be taken only once.* Students must take three creative writing workshop courses that count toward the English major. Additional workshops cannot count toward the English major but may count toward university requirements.
4. Electives: 12 credits in courses numbered ENG 300 and above
5. ENG 495 Senior seminar (4 credits)

Multicultural/Multiethnic Literature Concentration

1. Introductory courses (8 credits): ENG 240, 241
2. English electives: at least 12 credits of ENG 300-400 level courses
3. Multicultural literature electives: 16 credits from the following list. (At least 8 credits must be taken in the English Department; ENG 336, ENG 347, and ENG 348 may be repeated with a change of topic): ENG 336 Studies in Nonwestern Literature, ENG 347 Studies in African-American Literature, ENG 348 Studies in Multicultural Literature

   Other 300-400 level ENG courses may be counted when they have a multicultural/multiethnic topic. Students desiring to apply such courses to their concentration should write to the English Department's Committee on Instruction for permission to count those courses toward the concentration.

In special cases, students may count a baccalaureate level (300-400) non-departmental course as an elective toward the concentration if the course is clearly literary and multicultural in focus. Students desiring to pursue this option should write to the English Department's Committee on Instruction for permission to count such non-departmental courses towards the concentration. No more than 8 credit hours of electives may be completed outside the department.

4. ENG 495 Senior Seminar (4 credits)

Tracks

English Honors Track

Only for students accepted to the University Honors Program

1. Introductory courses (8 credits): ENG 240, 241 or ENG 240H, 241H (preferred)
2. Three survey courses (12 credits): ENG 321 British Literature I, ENG 322 British Literature II, ENG 342 American Literature Survey. These courses must contain an Honors component.*
3. ENG 496H Honors Research Project. (4 credits). See Director of Undergraduate Studies to plan this project..
4. Electives: 12 credits in courses numbered ENG 300 and above
5. ENG 495 Senior seminar (4 credits)

*Must contain an Honors component. Student must discuss the Honors contract component with instructor. The Honors component may not be taken as part of a six-week Summer Session course.

Secondary English Licensure Track
(Integrated Language Arts Education, Grades 7-12)

General Education Requirement: ENG 207 African-American Literature

Sophomore Prerequisites (8 credits): ENG 240, ENG 241

Major-Field Requirements:

300-level English Requirements (28 credits):

- ENG 308 Composition for Teachers
- ENG 310 Traditional Grammar (requirement can be fulfilled by passing a departmental exam). If a student passes by exam, no credit will be given, the student must take another 300-level elective.
- ENG 315 The English Language
- ENG 321 British Literature Survey I
- ENG 322 British Literature Survey II
- ENG 342 American Literature Survey
- ENG 382 Canonicity

400-level English Requirements:

- ENG 495 Senior Seminar (Capstone Course)

Other Subject Requirements (8 credits):

- COM 101 Principles of Communication
- COM 226 Mass Media and Society or COM 231 Evolution of Mass Media

Students desiring to teach English in high school must consult an adviser in the College of Education and Human Services, RT 1401 (216-687-4625), as well as an adviser in the English Department. Students must also minor in Education.

Professional Writing Certificate

The Professional Writing Certificate program is designed to enhance the credentials of students who are preparing for careers in corporate, professional, or technical writing, public relations, advertising, or for other careers in which writing plays an important role. The curriculum includes courses in graphics and design, editing, and other aspects of textual production, as well as in various genres of writing. While the Professional Writing Certificate is offered as an all-elective program, students are advised to select a curriculum that represents more than one aspect of textual production.

Students may earn the Professional Writing Certificate as part of their baccalaureate degree program, or they may add it to their credentials if they already have a baccalaureate degree. The Professional Writing Certificate is not awarded to persons who do not have a baccalaureate degree.

Admission to the Professional Writing Certificate Program

The Professional Writing Certificate program is open to all Cleveland State University undergraduates and graduate students, as well as Cleveland State alumni and students and alumni at other colleges and universities. Students must be enrolled in a baccalaureate degree program, or already have a baccalaureate degree, in order to be eligible for a Professional Writing Certificate.

Prerequisites for Completing a Certificate

Some of the courses in the Professional Writing Certificate program have specific course requirements. Students desiring to take these courses as part of the certificate program must, therefore, take the prerequisites, in addition to the 20 credits required for the certificate. See the English Department office staff for the complete description of this certificate program.

Information on the certificate program is available on the English Department webpage, or students can stop by the English Department, Rhodes Tower 1815, or see details in the certificates section of this catalog.

Minor in English

Courses required for the minor in English (16 credits) are as follows:

1. Introductory courses (8 credits): ENG 240, 241 (or equivalent)
2. Electives: 8 credits in courses numbered ENG 300 and above

School of Communication

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- Film Sequence
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Film and Digital Media (B.A.)

At-a-Glance

Minimum hours required for major: 44

Special tracks: There are three areas of concentration available within the Film and Digital Media major: digital media, film, and media studies. A media studies sequence allows students to explore the impact of media technologies and content on consumers, society and culture. The film sequence provides training in screenwriting and film production. The digital media sequence provides future broadcasters, DVD authors/project managers, and digital video and film makers with the skills they need in an era of visual media convergence.

Evening Program: No

Advising: Contact the School of Communication office 216-687-4630 or Professor Evan Lieberman, division director, at 216-687-4637.

Financial Aid: Scholarship assistance awarded to students in the School of Communication. Scholarships awarded annually. Call main office at 216-687-4630 for information.

- W.O. and Naomi E. Walker Scholarship
- Max Axelrod Scholarship. *(Students with journalism emphasis)*
- Donald Marcus Scholarship. *(Students with advertising emphasis)*
- Jana Stone Scholarship. *(Public relations emphasis)*
- Raymond Dorsey Scholarship. *(Physically disabled student with a preference for a journalism sequence)*

Student organizations: Lambda Pi Eta Honor Society, Media Arts Technology Organization.

Career information: A major in Film and Digital Media should prepare students for careers in broadcasting, digital video production, film production, and applied media research. Graduates with expertise in film and digital media can be hired as producers, videographers, broadcast reporters, writers, and specialists producing DVD-based entertainment, education, and training materials. Those with a background in media studies will be marketable in the broadcast industry where knowledge of research is essential. Employment in the information sector is expected to increase by over 18%, adding over 600,000 jobs to the economy, by 2012.

The Bachelor of Arts in Film and Digital Media: The major in Film and Digital Media, offered by the Division of Media Arts and Technology, introduces students to the universal presence that film, digital communications,

and broadcast media occupy in contemporary life. The major gives students an appreciation of the role communication technology plays in society, cultural foundations of media, entertainment and information, and the complex influences of media on human behavior. The Film and Digital Media major offers students a unique combination of academic excellence and career-related training. Our faculty are among the finest in the nation, recently ranked eighth in the country in communication research productivity. Our award-winning production faculty have a wide range of professional media experience.

Major-Field Requirements

Students must maintain a 2.25 GPA and complete a minimum of 44 credits to graduate with a major in Film and Digital Media. All School of Communication Majors are required to successfully complete COM 101 (Principles of Communication) and COM 303 (Communication Inquiry) with a minimum grade of C. Majors must take the required core courses and electives in one of the following three sequences. Transfer students must obtain at least 20 credit hours from Communication courses at Cleveland State University.

Film and Digital Media Major Core Required Courses (16 credit hours):

- COM 101 Principles of Communication
- COM 131 Media and Technology Literacy
- COM 226 Mass Media & Society
- COM 303 Communication Inquiry

Digital Media Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the digital media sequence.

Required Digital Media Sequence Courses (16 credit hours):

- COM 204 Single Source Video/Audio Production and Editing
- COM 320 History of the Moving Image
- COM 352 Multi-Source Video/Audio Production

choose two of the following:

- COM 400 Studio and Media Management
- COM 403 Advanced Video Editing

Digital Media Capstone Requirement (4 credit hours); choose one of the following:

- COM 401 Advanced Video/Audio Production
- COM 470 DVD and Emerging Media: Authoring and Project Management

Digital Media Sequence Electives (8 credit hours), choose two of the following:

- COM 100, 200, 300 Lab (Digital Media topics only)
- COM 231 Evolution of Mass Media
- COM 301 Broadcast and New Media Writing
- COM 321 Documentary Form in Film & Television
- COM 351 Audio Production for Radio
- COM 370 Communication Technology & Social Change
- COM 405 Electronic Journalism

- COM 494 Specialized Topics in Media Arts & Technology
- COM 450 Media Programming and Research
- COM 490 Internships in Communication

Film Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the film sequence.

Required Film Sequence Courses (20 credit hours):

- COM 204 Single Source Video/Audio Production and Editing
- COM 221 Introduction to Film
- COM 320 History of the Moving Image
- COM 345 Film Theory
- COM 410 Film Production I

Film Capstone Requirement (4 credit hours):

- COM 411 Film Production II

Film Sequence Electives (4 credit hours); choose one of the following:

- COM 321 Documentary Form in Film & Television
- COM 329 Contemporary Film
- COM 428 Imaging Africa
- COM 494 Specialized Topics in Media Arts & Technology

Media Studies Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the media studies sequence.

Required Media Studies Sequence Courses (16 credit hours):

- COM 231 Evolution of Mass Media
- COM 327 Media Criticism

choose two of the following:

- COM 301Broadcast and New Media Writing
- COM 310 Psychological Processing of Media
- COM 358 Media Law, Economics & Ethics
- COM 370 Communication Technology & Social Change
- COM 400 Studio & Media Production Management

Media Studies Capstone Requirement (4 credit hours):

- COM 450 Media Programming and Research

Media Studies Sequence Electives (8 credit hours) choose two of the following:

- COM 100, 200, 300 Communication Lab (Media Studies topics only)
- COM 204 Single Source Video/Audio Production and Editing
- COM 221 Introduction to Film
- COM 320 History of the Moving Image
- COM 329 Contemporary Film
- COM 345 Film Theory
- COM 470 DVD and Emerging Media: Authoring and Project Management
- COM 490 Internships in Communication
- COM 494 Specialized Topics in Media Arts & Technology

French

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French (B.A.)
At-a-Glance

Admissions to major: Completion of FRN 102 or equivalent

Minimum hours required for major: 36

Minimum hours required for minor: 18

Advising: Two designated faculty advisers; phone 216-687-4645

Student organization: Le club francophone de CSU

Additional information: Year and semester exchange programs to Clermont-Ferrand in France; summer study-abroad program in France. French government *poste d'assistant* to teach English in France

The French major, which leads to competence through a sequence of language skills courses, also includes coursework in the literature, culture and cinema of France and the French-speaking world. The French major curriculum provides a solid basis for students earning teaching licensure, continuing with graduate study, or pursuing any number of careers involving foreign language proficiency, critical thinking and cross-cultural understanding and communication skills. Our program offers study abroad options, an on-campus language club and other opportunities to interact with French-speakers outside of the classroom.

As the most widely taught second language in the world, after English, spoken in over 43 countries on five continents, French is considered a global language—an ideal choice for students preparing for a fulfilling life in today's interconnected world. As the first Europeans to explore the Great Lakes, the French are also closely tied to the history of the Cleveland area which today boasts a number of French connections including an active French American Chamber of Commerce, and the Lafayette Archive, housed in the Cleveland State University library.

A student who has completed French course work in high school or at another institution and who wishes to continue the study of that language must begin course work for credit at the level consistent with her or his academic background. A placement test is required for all students with less than three years of high school French or the equivalent. Students who have had three or more years of previous study must consult with an adviser in the Department of Modern Languages to determine the appropriate level. As a general guideline, students who read and write French fluently must begin course work for credit at the 300-level or higher. Students considering a major in French must consult with an adviser in the Department of Modern Languages concerning projected plans of study.

Courses numbered from 100 to 114 in French generally emphasize development of performance skills, as do those at higher levels, in courses numbered 200 to 214, 300 to 314, and 400 to 414. Courses numbered 115 to 134 (and corresponding numbers at the upper levels) generally emphasize the nature of language. Courses numbered 135 to 164 (and corresponding numbers at the upper levels) generally emphasize the culture and history of specific languages. Courses numbered 165 to 189 (and corresponding numbers at the upper levels) generally emphasize the literatures of the specific languages. Courses numbered 190 – 199 (and corresponding numbers at the upper level) are independent study and specialized courses.

Retroactive Credit

Students are eligible to earn up to 14 retroactive credits for previous knowledge of French. This policy is for students who have completed a foreign-language skills course and who earned a B or better in that course. For example, if your first French skills course is FRN 102 and you receive an A or B, you can receive credit for FRN 101. Consult the Department of Modern Languages 216-687-4645 for further information.

Credit by Examination

Students who successfully pass the College Level Placement Examination (CLEP test) in French may earn 14 credit hours for previous knowledge of French. For information about the examination, eligibility, and dates when it is given, contact the Cleveland State Testing Center 216-687-2277. Students who receive a score of 3, 4, or 5 on the Advanced Placement French language examination may earn 18 credit hours for FRN (101, 102, 201, and 202).

Note that only courses at the 200-level and above may count toward a French major or minor. See major and minor requirements below.

Major-Field Requirements

Students seeking a major in French must complete 36 credit hours in French above the 100 level, distributed as follows:

a. 8 credit hours of courses in composition-conversation (FRN 301, 402)
b. 4 credit hours of courses in literature (one of the following: FRN 371, 372, 375)
c. 4 credit hours in civilization (one of the following: FRN 344, 345)
d. A minimum of 28 credit hours at the 300- or 400-level
e. 2 courses in French at the 400-level, distributed as follows: FRN 402, plus one course at the 400 level taught in French (may be capstone)
f. 4 credit hour capstone course: FRN 441 or FRN 494
g. Among the 36 hours, no more than 8 hours of French courses may be at the 200 level

Transfer Students

Transfer students must complete at least 18 credit hours of the 36 required for the major in residence at Cleveland State University in order to earn a degree.

Major Credit

Up to 8 credit hours of English literature, practicum in language, independent study, literature in translation, or credit by examination may count toward the major.

No grade below C in a major course may count toward the major.

French Minor

A minor consists of 18 credit hours beyond the 100 level, of which 8 must be at the 300 level or above. Transfer students must complete 9 hours of the 18 required for the minor in residence at Cleveland State University. Students seeking a minor in French must have a departmental adviser to assist in the selection of courses. No grade below C in a minor course may count toward the minor.

Study Abroad

Majors and minors are encouraged to take advantage of Cleveland State University's exchange programs in Clermont Ferrand; and/or a summer study trip to France. Normally up to 18 semester hours of study abroad may count toward the major requirements (additional credit may count toward the total hours needed for graduation). Majors should seek departmental approval of foreign study plans before departure and must complete at least two 300- and/or 400-level courses in their major area after return from study abroad. (See also the Foreign Study section listed under "College of Liberal Arts and Social Sciences: Special Programs.")

For further information regarding the possibility of foreign study and summer programs available through the Modern Languages, contact the department office, 216-687-4645, or Dr. Engelking, 216-523-7175.

Teacher Licensure

Students preparing to teach will fulfill the requirements for the B.A. in French and the licensure sequence in the College of Education and Human Services for the Specialization in Multi-Age Foreign Language Education (PreK-12).

Students seeking a B.A. in French with teaching licensure must, in fulfilling the major requirements, take one course in civilization; one course in phonetics; and literature courses acquainting the student with the major genres of drama, poetry, and the novel.

The PreK-12 licensure sequence includes courses in elementary and secondary foreign-language methods. Students will need to follow the sequence as described in the College of Education and Human Services section. Before admission to student teaching, students must pass a Praxis II Principles of Learning and Teaching Test (K-6 or 5-9 or 7-12), the Praxis II Content Knowledge test, and demonstrate oral proficiency at the ACTFL “Advanced-Low” level. Students will need to have their skill level assessed as early as possible in the program and then work with their advisers to plan study experiences that provide appropriate opportunities for improvement. Modern Language methods courses must be completed during the semester preceding student teaching.

German

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German

At-a-Glance

(Major is suspended at present.)

Hours required for minor: 18

Advising: One designated faculty adviser; phone 216-687-4645

Additional information: Foreign field-study trips to Germany are offered on an irregular basis during summers as the need arises. For more information, please contact the CISP Office.

A student minoring in German may find career opportunities in Foreign Service, industry, or communications. Language study involves mastery both of performance skills (speaking, reading, writing, and understanding) and of a subject matter. The subject matter maybe the language itself (philology, linguistics), literature, culture, or pedagogy.

A student who has completed German course work in high school or at another institution who wishes to continue the study of that language must begin course work for credit at the level consistent with his or her academic background. Students who have had three or more years of previous study must consult with an adviser in the foreign language department to determine the appropriate level. As a general guideline, students who read and write German fluently must begin course work for credit at the 300-level or higher. Students considering a minor in German must consult with an adviser in the Department of Modern Languages concerning projected plans of study.

Courses numbered from 100 to 114 in German generally emphasize development of performance skills, as do those at higher levels, in courses numbered 200 to 214, 300 to 314, and 400 to 414. Courses numbered 115 to 134 (and corresponding numbers at the upper levels) generally emphasize the nature of language. Courses numbered 135 to 164 (and corresponding numbers at the upper levels) generally emphasize the culture and history of specific languages. Courses numbered 165 to 189 (and corresponding numbers at the upper levels) generally emphasize the literatures of the specific languages. Courses numbered 190 – 199 (and corresponding numbers at the upper levels) are independent and specialized courses.

Retroactive Credit

Students are eligible to earn up to 14 retroactive credits for previous knowledge of German. This policy is for students who have completed a foreign-language skills course and who earned a B or better in that course. For example, if your first German skills course is GER 102 and you receive an A or B, you can receive credit for GER 101. Consult the Department of Modern Languages 216-687-4645 for further information.

Credit by Examination

Students who successfully pass the College Level Placement Examination (CLEP test) in German may earn 14 credit hours for previous knowledge of German. For information about the examination, eligibility, and dates when it is given, contact the Cleveland State Testing Center 216-687-2277. Students who receive a score of 3, 4 or 5 on the Advanced Placement German language examination may earn 18 credit hours for GER (101, 102, 201, and 202).

Note that only courses at the 200-level or above may count toward the German minor. See requirements below.

Contact the department office 216-687-4645 for information about credit for course work.

German Minor

A minor in German consists of 18 credit hours beyond the 100-level, of which 8 credit hours must be at the 300 and/or 400 level. Transfer students must complete 9 hours of the 18 required for the minor in residence at Cleveland State University. Students seeking a minor in German must have a departmental adviser to assist in the selection of the courses. No grade below C in a minor course may count toward the minor.

Study Abroad

For further information regarding the possibility of foreign study and summer programs available through the Department of Modern Languages, contact the department office, 216-687-4645. Please also see above under "Additional Information."

Teacher Licensure

For information, contact the Department of Modern Languages at 216-687-4645.

History

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History (B.A.)
At-a-Glance

Minimum hours required for the major: 40, at least 32 of which must be upper-level (300- or 400-level)

Minimum hours required for the minor: 24, at least 16 of which must be upper-level

Student Honor Society: Phi Alpha Theta

Awards: Thomas F. Campbell Scholarship; Leon Soulé Scholarship; Social Studies Scholarship; William I. Shorrock Scholarship; Jeanette E. Tuve Scholarship; Modern European History Prize; Distinguished Graduate Student; Distinguished Baccalaureate Award.

Admission to the Major:

After admission to the university, a student obtains a "Declaration of Major" packet from the History Department in RT 1319 that explains the advising procedures and asks the student for a writing sample and answers to a few questions. Once this information has been gathered, the student phones the History Department (687-3920) for an initial advising appointment with the Director of Undergraduate Studies. The Director will evaluate transfer credits for the major and give the student a copy of the filled out check-sheet. Following this advising session, students will receive a letter with the name of their individual faculty advisor in the department.

Advising: Director of Undergraduate Studies, Dr. Tom Humphrey 216-523-7183; Individual faculty advisers; Internet Web page, http://www.csuohio.edu/history Students are urged to meet with their assigned faculty advisor at least once every semester.

For Information: Call the Chair or the History Department, 216-687-3920.

The Program

History is the essential foundation of knowledge. It provides the context for a liberal education, the tools to understand ourselves and our contemporary world, and the skills for an educated person to live a more fulfilled and gratifying life in a wide range of careers. Because of these various functions, we study history for many reasons:

- to better understand our society and the times in which we live
- to better understand ourselves
- to place our own society in historical perspective
- to balance present-mindedness with historical memory
- to acquire skills such as conducting research, communicating effectively through writing or oral communication, critical thinking, evaluating evidence, and problem-solving
- to understand the roles which individuals and groups have played in shaping their worlds
- for the enjoyment of examining societies very different or very similar to our own

This is possible because history at the university level is far more than a collection of facts, names, and dates. The emphasis is on accessing and analyzing information, the critical use of historical sources, learning to communicate the results, and the excitement which comes from exploring important ideas. To study history is to enter a time machine to explore the far reaches of the human experience — from classical times to the present; from the lives of great thinkers and kings to that of average people; from dramatic moments such as the Civil War to the routine. The past becomes the universe, all corners of which can be explored.

The department offers course work in European, U.S., African, Latin-American, Middle Eastern, and East Asian history and thematic foci on social and urban history and the history of the African Diaspora. The major program not only prepares students for teaching and for graduate study in history but many students have found history an appropriate preparatory foundation for careers in law, library science, international work, the foreign service, the ministry, business, government and archival and museum work.

History can be of inestimable value to non-majors. This can be done through the minor, the certificate programs, or by taking appropriate courses. Considering a career in International Relations or Business? Use history courses to deepen your understanding of foreign countries. Majoring in a foreign language? Take courses in history to broaden your appreciation of that culture.

Major-Field Requirements

Credit hours:
at least 40; at least **32** of which must be upper-level (300- or 400-level)

Survey requirement:
Students are required to complete one of the following survey sequences:

HIS 101-HIS 102
HIS 111-HIS 112
HIS 215-HIS 216

or two of the following courses:

HIS 110
HIS 165
HIS 175
HIS 185

Geographical diversity:
Students are required to divide their **32** upper-level credits among at least **four** of the following six geographical areas.

- North America
- Europe
- Latin America/Caribbean

- Asia/Pacific world
- Africa
- Middle East

Chronological diversity:
At least two of the student's upper-level credits (8 credit hours) must be in courses dealing with the pre-modern (before nineteenth century) period. These courses may also be used to fulfill the geographical distribution requirement.

Capstone requirement:
Upon reaching at least 24 credit hours in History, students are required to take one capstone research seminar. This course may be either HIS 400: Local History Seminar or HIS 401: Research Seminar (topics to vary by instructor). This course may be used to satisfy the geographical distribution or pre-modern requirement if appropriate (see above).

No course with a grade below C may be counted toward the History major.

Thematic concentration:
As a means of fulfilling the requirements for the major, students are encouraged to consult with their adviser about the possibility of developing a thematic focus (e.g., African Diaspora, Atlantic world).

Transfer students:
Transfer students must complete a minimum of 24 credit hours in history courses taken in the Department of History at CSU in order to major in History.

History Minor

A minor in History consists of 24 credits in history, of which at least 16 must be earned at the 300 level or above. No more than one course may be taken on an S/U basis. Transfer students must earn at least 16 credits in the Department of History at Cleveland State University in order to complete a minor in History.

Certificate Program: American Studies

The Certificate in American Studies is an interdisciplinary program administered by the Department of History, and is aimed primarily at students who will be at CSU for only a limited time. The requirements may be completed in one semester. The certificate is intended to provide students with a variety of perspectives on American culture, society, and history and to aid them in their understanding of a varied and complex civilization. To this end, students may choose from a variety of academic fields including history, literature, politics, popular culture, society, and the visual arts.

Students wishing to earn a Certificate in American Studies must complete 15 or 16 credit hours in approved American Studies courses (list available upon request) in at least three disciplines. No more than 8 credits may be taken at the 100/200 level.

Students are urged to consult with the Undergraduate Director or Chair in the Department of History to develop a plan of study.

Certificate Program: The History of the African Diaspora

The African Diaspora constitutes one of the largest and most consequential migrations in the history of mankind. This forced migration of over 10 million human beings transformed many areas of Africa and the Americas. This certificate program recognizes the significance of this historical process and its enduring importance as the subject of study. Students are called upon to examine the Diaspora in its comparative perspective by focusing on the history of Africa, the United States and Latin America.

Certificate Requirements

Students are required to complete 20 semester credit hours (5 courses) of which at least:

- 8 semester credit hours (2 courses) must be in African history
- 4 semester credit hours (1 course) must be in Latin American history
- 4 semester credit hours (1 course) must be an Independent Study research project involving any two of the three areas

The remaining course is an elective in one of the three areas.

For additional information, contact the Department of History at 216-687-3920.

Also, see Certificate in Central and Eastern European Studies and Certificate in Latin American Studies.

Honors Program

The honors program is designed for the History major completing the last two years of study for an undergraduate degree who at the time of application has a 3.00 cumulative GPA and a 3.25 average in history. Application for admission to the program must be made 30 days before the semester in which the applicant wishes to enter.

The successful completion of the requirements for the program leads to a recommendation by the departmental Honors Committee for graduation with honors in History. For further information and application forms, contact the Department of History office, 216-687-3920.

Evening Program

The requirements for both the major and minor programs also apply to evening students. The History Department makes every effort to schedule courses in such a way as to make it possible for evening students to fulfill these requirements.

Teaching Licensure

Students interested in teaching history/social studies at the high-school level in the state of Ohio must complete the requirements for both the Bachelor of Arts in Social Studies and the Adolescent and Young Adult Teaching License in Integrated Social Studies (offered through the College of Education and Human Services). For further information, contact Dr. Tom Humphrey in the Department of History, 216-523-7183.

International Relations

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    - Asia
    - Europe
    - Africa
    - Middle East
    - Latin America and the Caribbean
    - Global Studies
- Transitional Policy
- Go to International Relations webpage, Department of Political Science

International Relations (B.A.)
At-a-Glance

Minimum hours required for major: 34 credit hours — 14-hour introductory core with 11 hours of political science courses and 3 hours in economics, 15 to 16 hours in a selected International Relations concentration that includes political science and other courses in the social sciences, humanities, and arts, or in business, depending on the specific concentration, and a 5-credit-hour political science senior seminar as a capstone course.

Language Competence: Students must demonstrate mastery in a major world language of relevance to their concentration comparable to that obtained from two years of college-level instruction. Competence may be demonstrated by examination.

Admission to Major: No requirement other than good academic standing in the College of Liberal Arts and Social Sciences. Double majors are encouraged.

Evening Program: Because courses are offered in a variety of departments, no assurance can be given that the major can be fully completed at night. All core courses will be available (in political science and economics) over a two-year cycle.

Foreign Study Programs: Students may apply study-abroad credit toward their concentration.

Internship Opportunities: Students can acquire valuable work experience, and can earn up to 5 credit hours through an internship in the U.S. or abroad (sign up for PSC 406). Specific intern assignments will be worked out on an individual basis by the department's International Relations intern adviser. Hours earned will apply toward a concentration.

Advising: When a student signs up as an International Relations major, an adviser will be assigned to the student. To make an advising appointment, please telephone 216-687-4541 or e-mail v.varaljay@csuohio.edu in the Department of Political Science.

Additional Information:

This major is designed to give students the opportunity to engage in a multidisciplinary study of the variety of subjects concerned with international affairs. Successful completion of the major does not assure job

placement in an international career. It does offer a number of advantages to students seeking entry placement in domestic and overseas private-sector firms and nongovernmental organizations where a premium is placed on the ability to interact successfully with people and economic and political practices in other cultures. It also provides an excellent foundation for more specialized graduate study in international studies, and for taking entry-level examinations into international service.

All students follow a series of core courses in political science and economics. In addition, students choose from one of a number of concentrations in the areas of international business and economics, Asia, Europe, Africa, Middle East, and Latin American and the Caribbean. For each of these concentrations, students take four courses from a recommended list. Students, with the agreement of the IR director or the chair of the Department of Political Science, may also design their own concentration if a grouping of appropriate courses is available.

In addition to the analytic tools of political science and economics, all International Relations majors are required to demonstrate competence in at least one major world foreign language at a level comparable to two years of college instruction. Competence may be demonstrated either by completing course work or passing an examination. Non-native English speakers may submit English as their foreign language. All other students must obtain approval for their language and show its relevance to their area of concentration. IR majors are encouraged to gain or deepen their language competence through a period of residence and/or study abroad. The department works closely with the Center for International Services and Programs to develop study-abroad opportunities for International Relations majors. In some cases scholarship support may be available to assist with travel expenses. Foreign-language majors or minors are welcome to double major in International Relations.

The Department of Political Science also encourages students to benefit from an internship program which will further deepen their knowledge of international affairs and improve their marketability. The director of the International Relations program will work with interested students to arrange internship opportunities in Cleveland, elsewhere in the United States or in some instances with foreign corporations or organizations abroad. Students can consult a list of existing opportunities, or additional ones can be developed on an individual basis.

Students must maintain at least a 2.0 GPA in their major in order to graduate.

Major-Field Requirements

The curriculum for the International Relations major consists of an introductory core, a concentration, and a capstone course. The following courses represent the introductory core are required of all International Relations majors:

Introductory Core:

- PSC 231 International Politics (4 hours)
- PSC 251 Introduction to Data Analysis (3 hours)
- PSC 328 International Political Economy (4 hours)
- ECN 201 Macroeconomics (3 credit hours)

The Concentration:

(15 to 16 hours all at the 300-level or above, except for PSC 221 in European, Asian, African, Latin America and Caribbean area studies concentrations or ARB/PSC/HIS 274 in Middle East area studies concentration.)

The purpose of the concentration is to enable students to pursue an in-depth study of one area of international studies corresponding to their intellectual and/or career interests. Courses in the concentration may be chosen from among a variety of courses in different disciplines of arts and sciences and from the College of Business. All courses selected for the concentration must be approved by the student's adviser or by the director of the International Relations major. Students can select from among the six concentrations listed below, or may create their own concentration with the approval of their adviser. Courses listed below for each concentration are indicative and may not all be available as needed. Students should see their advisers to work out their specific set of concentration courses.

1. Concentration in International Business and Economics (four of the following):

Every student needs to achieve and demonstrate the equivalent of a two-year academic competence in a language relevant to the area of International Business the student is concentrating in. International Relations majors in this concentration are encouraged to focus on either a Marketing (MKT) track or a Management and Labor Relations (MLR) track.

Marketing (MKT) Track:

- ECN 482 International Economics
- MKT 301 Introduction to Marketing (3 hours)
- MKT 321 International Business
- MKT 431 Marketing Research
- MKT 461 Global Marketing
- PSC 394 Special Topics in Political Science (if on political economy)
- PSC 406 International Relations Internship

Management and Labor Relations (MLR) Track:

- ECN 482 International Economics
- MLR 301 Principles of Management (3 hours)
- MLR 302 Principles of Labor and Industrial Relations (3 hours)
- MLR 421 Comparative Labor Systems (3 hours)
- MLR 487 International Management (3 hours)
- PSC 394 Special Topics in Political Science (if on political economy)
- PSC 406 International Relations Internship

Note: Students will not be allowed to submit both MKT 301 and MLR 301 for the concentration. If they take both, one will count for major credit and they may submit a mixture of MKT and MLR courses toward their concentration.

2. Asia (four of the following):

Students taking this option need to achieve and demonstrate the equivalent of a two-year academic competence in a major Asian language.

- PSC 221 Comparative Politics
- PSC 335 East Asian Politics (may not be double counted)
- PSC 394 Special Topics when specified to deal with Asia, such as "Art and Politics in China"
- ART 281 Introduction to Far Eastern Art
- ART 383 Indian Art
- ART 384 Buddhist Sculpture
- ART 385 The Hindu Temple

- HIS 371 History of Japan
- HIS 372 Early Modern Japan
- HIS 373 Contemporary Japan in Historical Perspective
- HIS 374 Revolutionary Movements in Modern China
- REL 360 Hinduism
- REL 362 Buddhism
- REL 364 Islam
- PSC 406 International Relations Internship

Note: No more than one course total may be taken in Art and Religion.

3. Europe (four of the following):

Students in this concentration will be expected to achieve and demonstrate the equivalent of a two-year academic competence in French, German, or Spanish, or by permission, another major European language.

- PSC 221 Comparative Politics
- PSC 325 Western European Politics
- PSC 329 Politics and Political Economy of the European Union
- PSC 338 Central and Eastern Europe
- HIS 351 Social and Economic History of 19th Century Europe
- HIS 352 Political History of 19th Century Europe
- HIS 353 20th Century Europe, 1914 to the Present
- HIS 362 Modern Eastern Europe
- PSC 406 International Relations Internship

4. Africa (four of the following):

Students in this concentration will be expected to achieve and demonstrate the equivalent of a two-year academic competence in Arabic, French, or Portuguese, or, by permission, another major African language.

- PSC 221 Comparative Politics
- PSC 323 African Politics
- PSC 339 Political Economy of the Middle East and North Africa
- ANT 353 Cultures of Africa
- ART 286 Introduction to African Art
- ART 386 Regional Art in Africa
- COM 428 Imaging Africa
- HIS 375 Pre-Colonial Africa to 1800
- HIS 376 Modern Africa since 1800
- HIS 377 History of Islamic Civilizations
- REL 341 The Origin of Judaism
- REL 364 Islam
- REL 366 Modern Islamic Movements
- PSC 406 International Relations Internship

Note: No more than one course total may be taken in Art, Religion, and Communication.

5. Middle East (four of the following):

Students in this concentration will be expected to achieve and demonstrate the equivalent of a two-year academic competence in Arabic, Hebrew, Turkish, or Persian or, by permission, another major Middle Eastern language.

- ARB/HIS/PSC 274 Introduction to the Middle East
- PSC 332 Politics in the Middle East
- PSC 339 Political Economy of the Middle East and North Africa
- HIS 377 History of Islamic Civilizations
- HIS 386 History of the Middle East to 1798
- HIS 387 Modern Middle East
- REL 341 The Origin of Judaism
- REL 364 Islam
- REL 366 Modern Islamic Movements
- PSC 406 International Relations Internship

Note: No more than one course total may be taken in Religion.

6. Latin America and the Caribbean (four of the following):

Students in this concentration will be expected to achieve and demonstrate the equivalent of a two-year academic competence in Spanish, Portuguese, or French.

- PSC 221 Comparative Politics
- PSC 326 Politics of the Third World
- PSC 333 Latin American Politics
- ANT 352 Native South Americans
- MLA 204 Nonwestern World Literature (depends on specific content)
- HIS 165 Introduction to Latin American History *Effective Fall 2009: Student may not count HIS 165, if student is also taking HIS 366 and/or HIS 367.
- HIS 366 Colonial Latin America
- HIS 367 Modern Latin America
- PSC 406 International Relations Internship

7. Global Studies (12 credit limit on Graduate Courses)

- ECN 482 International Economics
- PSC 321 Political Violence
- PSC 327 Peaceful World Change
- PSC 331 US Foreign Policy
- PSC 334 Causes of War
- PSC 501 IR Theory*
- PSC 503 Political Risk*
- PSC 511 Non-state Actors*
- PSC 512 Global Governance*
- SOC 320 Globalization
- PSC 406 International Relations Internship

*Requires instructor's permission

Study-Abroad

The International Relations program encourages all students to include a study abroad experience as part of their curriculum if it is at all practical. We are willing to accept any CSU-approved study abroad courses to fulfill concentration requirements, provided that the subject matter is in the Social Sciences or Humanities (or, in the case of the international business concentration, Business Administration), and is directly relevant to the region represented by the concentration.

Capstone Course

All International Relations majors will be required to conclude their major with a 5-credit-hour capstone course. The capstone experience in International Relations is to complete a political science senior seminar. To take a senior seminar the International Relations major must have completed the Introductory Core and at least two 300- or 400-level courses in their concentration, or permission of the instructor.

- PSC 421 Seminar in Comparative Politics (5 hours)
- PSC 422 Seminar in International Politics (5 hours)

Transitional Policy

The International Relations major frequently changes when new courses are added or when old courses are dropped, or when the department revises the curriculum. Any student has the right to complete the requirements as they existed at the time the student declared his/her IR major, or may decide to adhere to subsequent requirements. Copies of previous IR major requirements are available from the Department of Political Science.

School of Communication

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- Public Relations Sequence
- Advertising Sequence
- COM Courses
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Journalism and Promotional Communication (B.A.)

At-a-Glance

Minimum hours required for major: 44

Admission: Students must complete COM 225 (Media Writing) with a minimum grade of B-.

Special tracks: Three areas of concentration are available within the Journalism and Promotional Communication major: Journalism, Public Relations, and Advertising.

Career information: A major in Journalism and Promotional Communication will prepare students for jobs in the news media, public relations, and advertising. Students with expertise in journalism can be hired as reporters, editors, or technical writers for newspapers, magazines, and online media. An education in public relations can open doors to jobs in PR firms and companies that use promotional strategies to craft a public image. Graduates with expertise in advertising can find employment in ad agencies, working in research or creative advertising development departments. Students who have an interest in effects of media and promotional communication may want to pursue graduate work to prepare for a career as a researcher or professor of mass communication.

Evening Program: No

Advising: Contact the School of Communication office 216-687-4630 or Professor Michael Rand at 216-687-5076.

Financial Aid: Scholarship assistance awarded to students in the School of Communication. Scholarships awarded annually. Call main office at 216-687-4630 for information.

- **Max Axelrod Scholarship.** Students with journalism emphasis.
- **Raymond Dorsey Journalism Scholarship.** Physically disabled student with a preference for journalism emphasis.
- **Jana V. Stone Scholarship.** Public relations emphasis.
- **W.O. and Naomi Walker Scholarship.** Students in the School of Communication.
- **Donald Marcus Scholarship.** Students with advertising emphasis.

Student organizations: Lambda Pi Eta Honor Society, Society of Professional Journalists (SPJ), Public Relations Student Society of America (PRSSA), Cleveland State Advertising Association (CSAA), Student Association for Promotional Communication (SAPC)

The Bachelor of Arts in Journalism and Promotional Communication offers students a unique combination of academic excellence and career-related training. Students will receive a comprehensive, ethically grounded education in journalism and mass communication. Students in this program learn about both the impact and responsibilities of mass media in a contemporary capitalist democracy, obtaining training in the gathering, production, and strategic dissemination of information. Media reporting and writing, as well as the design of public relations and advertising campaigns, comprise the course work of this intensive program. The curriculum represents a balance among professional skills, academic approaches to mass communication, and a liberal-arts background. Our faculty is among the finest in the nation, recently ranked eighth in the country in communication research productivity.

Major-Field Requirements

Students must complete a minimum of 44 credits and maintain a 2.25 GPA to graduate with a major in Journalism and Promotional Communication. All School of Communication Majors are required to successfully complete COM 101 (Principles of Communication) and COM 303 (Communication Inquiry) with a minimum grade of C. The major consists of four core courses, five required sequence courses and two elective sequence courses. Students should be aware that professionally oriented courses require considerable commitment of time and effort in addition to traditional class meeting times. Transfer students must obtain at least 20 credit hours from Communication courses at Cleveland State University.

Required Major Core Courses: (16 credit hours):

- COM 101 Principles of Communication
- COM 303 Communication Inquiry
- COM 225 Media Writing
- COM 226 Mass Media and Society

Journalism Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the Journalism sequence.

Required Journalism Sequence Courses: (20 credit hours)

- COM 326 Advanced Reporting
- COM 328 Specialized Writing
- COM 425 Editing and Graphics
- COM 426 Laboratory Newspaper I
- COM 427 Laboratory Newspaper II

Journalism Elective Courses: (8 credit hours); choose two of the following:

- COM 231 Evolution of Mass Media
- COM 347 Political Communication
- COM 358 Media Law, Economics and Ethics
- COM 359 International Communication
- COM 370 Communication Technology & Social Change
- COM 393 Special Topics (Photo Journalism)
- COM 405 Electronic Journalism
- COM 490 Internship in Communication

Public Relations Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the Public Relations sequence.

Required Public Relations Sequence Courses: (20 credit hours)

- COM 350 Persuasive Communication and Attitude Change
- COM 357 Principles of Public Relations
- COM 425 Editing and Graphics
- COM 447 Public Relations Writing
- COM 455 Communication Campaigns

Public Relations Sequence Elective Courses: (8 credit hours); choose two of the following:

- COM 231 Evolution of Mass Media
- COM 242 Public and Professional Speaking
- COM 347 Political Communication
- COM 358 Media Law, Economics and Ethics
- COM 359 International Communication
- COM 360 Principles of Advertising
- COM 393 Special Topics (Photo Journalism)
- COM 490 Internship in Communication

Advertising Sequence

Students concentrating in this area are required to take 28 credits of the following courses in the Advertising sequence.

Required Advertising Sequence Courses: (20 credit hours)

- COM 310 Psychological Processing of Media
- COM 350 Persuasive Communication and Attitude Change
- COM 357 Principles of Public Relations
- COM 360 Principles of Advertising
- COM 364 Advanced Advertising
- COM 455 Communication Campaigns

Advertising Elective Courses: (8 credit hours); choose two of the following:

- COM 231 Evolution of Mass Media
- COM 242 Public and Professional Speaking
- COM 358 Media Law, Economics and Ethics
- COM 359 International Communication
- COM 361 Advertising Copywriting & Layout
- COM 363 Advertising Media Planning and Sales
- COM 393 Special Topics (Photo Journalism)
- COM 490 Internship in Communication

Liberal Studies

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- Advising
- Time for Completing the Degree
- Major-Field Requirements
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Liberal Studies (B.A.)
At-a-Glance

Contact the Interdisciplinary Programs Office at 216-687-3914 for further information.

e-mail: libstudies@csuohio.edu

Internet: http://www.csuohio.edu/class/liberalstudies/

The Bachelor of Arts in Liberal Studies is administered by the College of Liberal Arts and Social Sciences. This degree provides a broad-based liberal education in the sciences and humanities. It is especially appropriate for students who wish to take an active role in shaping their studies.

The B.A. in Liberal Studies differs from traditional degree programs in allowing maximum freedom and flexibility in course selection. Students may organize a program that suits their own academic, professional, or other personal goals such as a foundation for graduate study, as a prerequisite for professional training, or as exploratory intellectual experiences in their own right. (Some graduate or professional careers require more specialized backgrounds than Liberal Studies permits, so for them a more traditional B.A. might be more appropriate.)

Liberal Studies is for any student whose academic interests do not fit well into any of the pre-defined major programs at Cleveland State University but whose academic interests are supported in our course offerings. Students design the theme of their own education.

Admission to the Bachelor of Arts in Liberal Studies Program

After admission to the university, a student makes an appointment with a Liberal Studies adviser. The adviser explains the nature of the program (including its advantages and disadvantages) and helps to determine whether such a broad-based education is in the student's best educational and career interests. Transfer credits from other schools and from other colleges within Cleveland State are also explained and evaluated. To enter the program, a student must have a minimum GPA of 2.75 either cumulatively or in the last 24 semester hours taken before admission.

The student then consults with the director of Liberal Studies or a faculty adviser about applying for admission to the program — ideally before attaining senior status. A letter of application requests admission to Liberal Studies and includes the following:

- a statement of understanding about the freedom of choice associated with this degree
- a statement of future plans to use this degree for itself, for further study, or for employment
- an outline of a projected course of study and date of graduation

The letter is reviewed by the program's director and advisory committee. When an application is approved, the student's major becomes effective in the following term.

Advising

Majors in Liberal Studies meet each term with the director or an adviser assigned by the director to discuss progress in the program and to register for the following term. They are also encouraged to seek additional advising from specific departments and programs, especially if they are planning graduate study or other professional training after graduation.

Time for Completing the Degree

The B.A. in Liberal Studies can be completed in four years of full-time study, or longer through part-time attendance. Some transfer credits from other schools and from other colleges within Cleveland State may reduce the time required. Students entering the program in their junior year or later may require additional time.

Major-Field Requirements

A. Liberal Studies majors must complete all university residence and distribution requirements as well as all general requirements of the College of Liberal Arts and Social Sciences.

B. In addition to university and college requirements, a B.A. in Liberal Studies includes 66 semester credits of C or better:
   - 16 in Social and Behavioral Sciences
   - 16 in Natural Sciences and Mathematics
   - 16 in Humanities and Fine Arts
   - 18 in Electives

   These 66 credits may be broadly distributed across the four areas. They may be concentrated in various areas of interest (including certificates or formal minors in other departments), or they may be organized in a formal program of study of one or more major themes (such as critical thinking, cultural heritage, science and technology). No more than 18 credits in any one department will normally be counted toward the 66 credits of the major.

C. At least 16 upper level credits that are applied to the major must be taken at CSU after the semester in which the student is accepted into the program. Unless special permission is given, the Liberal Studies Capstone Course must be among the 16.

D. The Liberal Studies Capstone Requirement may be fulfilled by taking a Capstone course offered by any department in CLASS or COS. Those based on that of departments in other colleges or substitutions consistent with personal academic goals require approval of the Director.

E. Upon petition to the director and advisory committee, a student may include in the Liberal Studies major up to 42 transfer credits from other colleges within Cleveland State — typically for courses that have specific counterparts in Liberal Arts and Social Sciences courses. A maximum of 31 credits in business courses may be counted toward the 66 credits of the major.

Linguistics

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- Major-Field Requirements
- Linguistics Minor
- LIN Courses
- Go to Linguistics Program website

Linguistics (B.A.)
At-a-Glance

Minimum hours required for major: 39

Minimum hours required for minor: 18

Special requirement: In order to earn a B.A. in Linguistics, a student must maintain an overall grade-point average of 2.5 or better, and a grade-point average of 3.0 or better in courses applied to the major.

Advising information: Freshmen and sophomores who are interested in majoring or minoring in Linguistics are advised to take LIN 120 Introduction to Language and Linguistics, which counts as a Linguistics requirement. (Please see the GenEd 08 Courses for applicability. This course is cross-listed as ANT 120. Students interested in Linguistics should contact the administrative home of the Linguistics Program, the Department of Anthropology, CB 119, 216.687.2414.

Foreign language requirement: The college's foreign language requirement may be satisfied by taking a two-semester sequence of LIN 318 Language Analysis (4 credits each, cross-listed as ENG 318 or MLA 318) offered as Sanskrit, Old English, Old Norse, Mayan, or other languages. These also count as elective courses in the Linguistics major and minor.

Career information:

Current jobs for linguists are advertised on the Linguist List: http://www.linguistlist.org/jobs. Other pertinent information can be found on the website of the Linguistic Society of America: www.lsadc.org. Students preparing to teach English as a second language are advised to take courses in phonetics, phonology, morphology and syntax, semantics, English grammar, applied linguistics, and teaching ESL. The Linguistics major is drawn from courses in anthropology, communication, education, English, modern languages, philosophy, psychology, and speech and hearing. Many students have found it advantageous to take a double major, combining linguistics with one of these fields.

Major-Field Requirements

To earn a major in Linguistics, students must take at least 39 credits distributed among at least 10 courses. The number of credits in each course varies from 1 to 4, but most are 4 credits. Major course requirements are defined as follows:

I. Introductory course (ONE of the following – 4 hours):

Lower Division (open to freshman/sophomores as well as juniors/seniors)

- ANT/LIN 120 – Introduction to Language and Linguistics (4)

- OR -

Upper Division (note this requires junior/senior status)

- ENG/LIN 311 – Elements of Linguistics (4)

II. Core courses (23 hours minimum):

A. All 4 of the following are required (15 hours)*:*

- SPH 228 – Phonetics (3)
- ANT/LIN 340 – Phonology (4)
- ANT/LIN 341 – Morphology and Syntax (4)
- ANT 345 – Language and Meaning (Semantics) (4)

B. Plus any 2 of the following (8 hours):

- ENG/LIN 313 – Studies in Linguistics (4)
  *only *when taught as Historical Linguistics*

- ANT 243– Language and Gender (4)
- ANT/LIN/MLA 342 – Languages in Contact (4)
- ANT 304 – Linguistic Anthropology (4)

Any course from Section IIB above not used as a core course can be applied as an elective.

III. Electives (**12 hours)**

- ANT/LIN MLA 260 – Language, Culture, and Society (4)
- ANT/LIN 347 – Maya Hieroglyphic Writing I (4)
- ANT/LIN 447 – Maya Hieroglyphic Writing II (4)
- COM 332 – Interracial Communication (4)
- EDL 406 – Second Language Learning (3)
- EDL 407 – TESOL Methods (3)
- EDL 408 – Applied Linguistics for Teachers (3)
- ENG/LIN 313 – Studies in Linguistics (4)
  **may be repeated with a change in topic*

- ENG/LIN 315 – Introduction to the English Language (4)
- ENG/LIN/MLA 318– Language Analysis (2 or 4)
  **may be repeated as a two-semester sequence or with a change in topic.*

- FRN 315 – French Phonetics (4)
- LIN 293 – Topics in Linguistics (4)
- LIN 310 – Traditional Grammar (4)
- LIN 490 – Linguistic Internship (1-2)
- LIN 493 – Special Topics in Linguistics (2 – 4)
- LIN 496 – Independent Study in Linguistics (1-4)
- MLA 201 – Words (3)
- PHL 377 – Philosophy and Language (4)

- PSY 372 – Memory and Cognition (4)
- SPH 229 or 349 – Speech and Language Development (3)
- SPH 431 – Basic Speech-Language Disorders (4)
- SPH/LIN 438 – Dialect Differences in the Schools (2)
- SPN 293/393/493 – Special Topics in Spanish (1 – 4)
  **when topic is linguistic in nature*

- SPN 315 – Introduction to Spanish Linguistics (4)
- SPN 416 – Studies in Spanish Linguistics (3)
- SPN 417 – History of Spanish (3)

Linguistics Minor

The minor in Linguistics requires at least 18 credits, with courses distributed as follows:

1. Introductory course: ANT/LIN 120 or ENG/LIN 311
2. Any two core courses (from Section II above)
3. Any two or more elective courses (from Sections II and III above)

Modern Languages

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See:

- Arabic courses
- Chinese courses
- English Translations of Foreign Literature (ENF) courses
- French (B.A.)
- German (B.A. - suspended) minor
- Greek courses
- Italian courses
- Japanese courses
- Latin courses
- Middle Eastern Studies interdisciplinary minor
- Modern Language (culture; or languages such as Swahili, Portuguese, or Russian) courses
- Slovenian courses
- Spanish (B.A.)

Music

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- Areas of Concentration
- Bachelor of Arts Degree
- Music Minor
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Music (B.Mus., B.A.)
At-a-Glances

Minimum hours required for B.A.: 49

Minimum hours required for B.-Mus. Composition: 86

Minimum hours required for B.-Mus. Education: 93

Minimum hours required for B.-Mus. Performance: 78

Minimum hours required for B.-Mus. Music Therapy: 94

Minimum hours required for minor: 24

Contact information: Department chairperson, 216-687-2151.

Two degree programs are offered: the Bachelor of Music, for the student who seeks primarily professional training, and the Bachelor of Arts with a major in music, for the student who seeks to study music in its wider cultural context. The Music Department offers training for music majors in the areas of music education, composition, applied music, and music therapy. These programs have been accredited by the National Association of Schools of Music. The music therapy program is approved by the American Music Therapy Association.

Private lessons in applied music are offered on campus. Students may register for either one or two half-hour weekly lessons. The last digit of the applied music course number indicates the amount of credit earned. Those who register for one half-hour lesson earn one semester hour; two half-hour lessons earn two semester hours. Special tuition fees are assessed for these courses. A successful performance audition is required for admission to music major status.

All music students are urged to consult the *Music Department Student Handbook* online for further clarification of the degree requirements listed below. The handbook contains other departmental standards and requirements not listed here.

Bachelor of Music Degree

In addition to fulfilling the general course requirements of the university and the College of Liberal Arts and Social Sciences, B.Mus. majors are required to complete course work in areas of common experience in music and in courses specific to one of four areas of concentration: music education, composition, applied music, or music therapy.

1. Course work in areas of common experience includes performance experience in applied music and in ensembles, development of basic musicianship skills, knowledge of musical structures and styles in broad historical and cultural contexts.

   The courses required in the common experience are:
   - MUS 113 Writing About Music
   - MUA 102 and 103 Keyboard Skills I, II
   - MUS 231 through 234 Harmony and Form I, II, III, IV
   - MUS 241 through 244 Musicianship I, II, III, IV
   - MUS 411 and 412 Music History I, II
   - MUS 414 Ethnomusicology

2. In addition, each major area of concentration requires applied music and ensemble participation as follows:
   - *Music education:* seven semesters of applied music and seven semesters of major ensembles, at least one semester must be in small ensemble.
   - *Composition:* eight semesters of applied music and six semesters of ensembles
   - *Applied music:* eight semesters of applied music (includes eight credits at the 100-level and eight credits at the 300-level) and 12 semester hours of ensembles, at least one semester must be in small ensemble
   - *Music therapy:* seven semesters of applied music and seven semesters of major ensemble, at least one semester must be in small ensemble.

   Appropriate proficiency levels as defined by the Department of Music faculty must be passed for students to progress to upper-level applied music study.

3. Each area of concentration also requires degree candidates to present at least one recital as follows:
   - *Music education:* a 30-minute senior recital
   - *Composition:* a recital of representative works
   - *Applied Music*: two 60-minute recitals
   - *Music therapy:* a 30-minute senior recital

Areas of Concentration

Music Education

A student choosing the option of music education must complete the following courses in addition to the common experiences listed above:

- MUS 205 Orientation to Music Education
- MUS 351 Teaching String Instruments
- MUS 352 Teaching Woodwind Instruments
- MUS 353 Teaching Brass Instruments
- MUS 354 Teaching Percussion Instruments
- MUS 355 Vocal Techniques for the Classroom
- MUS 442 Choral Methods

- MUS 444 Elementary Music Curriculum and Methods
- MUS 445 Secondary Music Curriculum and Methods
- MUS 446 Instrumental Methods
- MUS 454 Elementary Music Field Experience
- MUS 455 Secondary Music Field Experience
- MUS 461 Conducting School Ensembles
- EDB 400 Communication and Collaboration
- EDC 300 Diversity in Education Settings
- EDL 305 Reading in the Content Areas
- ESE 404 Teaching Students of Varying Abilities
- EST 483 Multiage Student Teaching (10 hrs.)

Composition

A student choosing the option in composition must complete the following music courses in addition to the common experiences listed above:

- MUS 218 Composition (four semesters)
-
- MUS 341 Counterpoint
- MUS 418 Composition (four semesters)
- MUS 427, 428 Computer Music and MIDI I, II
- MUS 451 Orchestration
- MUS 452 Career in Composition
-

Applied Music

A student choosing the option in applied music must complete the following courses in addition to the common experiences listed above:

- MUS 310 The Business of Music
- Electives in Music: 6 semester hours chosen from among the following: MUS 108 Opera Theater Workshop;MUS 116 Collaborative Piano and Accompanying; MUS 341 Counterpoint; MUS 356 Diction; MUS 361 Voice Class; MUS 427, 428 Computer Music and MIDI I, II; MUS 381, 382 Jazz Improvisation I, II; MUS 451 Orchestration; MUS 461 Conducting School Ensembles, MUS 475 Workshop, MUS 476 Extended Workshop.Other electives: 11 semester hours. Voice majors must take two semesters of German and two semesters of a Romance language.

Music Therapy

Completion of the program of study leads to certification as a Registered Music Therapist with the Certification Board for Music Therapy. The mandatory internship must be completed at an AMTA approved facility.. *Note:* There is a tuition surcharge for Consortium courses.

A student choosing the option in Music Therapy must complete the following courses in addition to the common experiences listed above:

- MUS 354 Teaching Percussion Instruments
- MUS 361 Voice Class
- MUS 362 Guitar Class

The following courses are taught through the Cleveland Music Therapy Consortium, which meets on the campus of Baldwin-Wallace College:

- MUS 390 Introduction to Music Therapy
- MUS 391 Recreational Music: Programming and Leadership
- MUS 392 Music Therapy Practicum (taken three times)
- MUS 420 Music Therapy in Psychiatry and Rehabilitation
- MUS 421 Music Therapy with the Developmentally Disabled
- MUS 422 Psychology of Music I
- MUS 423 Research Methods in Music Therapy
- MUS 424 Program Development and Administration
- MUS 425 Internship in Music Therapy

In order to fulfill AMTA requirements, Music Therapy majors must take the following courses as part of their General Education (GenEd) requirements:

- PSY 101 Introduction to Psychology
- PSY 311 Behavioral Statistics (or another statistics course)
- PSY 345 Abnormal Psychology
- SOC 101 Introduction to Sociology
- Sociology elective
- BIO 266 Human Anatomy and Physiology I
- COM 211 Communicating in Personal Relationships
- ESE 404 Teaching Students of Varying Abilities

Bachelor of Arts Degree

Major-Field Requirements

The program leading to a B.A. with a major in Music requires a total of 128 semester hours. The 33 semester hours listed under Common Experiences are required of B.A. students, except instead of MUS 233 and MUS 234, B.A. students take MUS 235 and MUS 236. (Section 1 above) . Eight semester hours in applied music or ensemble, 11 semester hours of music electives and a three-semester-hour senior project are also required.

The Music major provides for numerous electives (26 semester hours) outside of music as well as for the General Education Requirements of the university and the College of Liberal Arts and Social Sciences requirements. The major's elective requirement provides the opportunity for broad coverage and even intensive work in other academic areas of interest. It also provides the additional background for an individually designed senior project which culminates the degree.

A full-time faculty member will be the principal adviser to and administrator of the program. Acceptance into the B.A. program in Music requires an interview with the program adviser and written confirmation from the program adviser of the student's acceptance as a candidate for the B.A. in Music. A successful entrance audition before a faculty committee is required of students whose focus in the B.A. program is to be performance. An entrance audition will also be required of applicants who have less than one year of private applied lessons at a recognized institution of higher education.

Music Minor

A minor in Music consists of 24 semester hours. Students accepted for the minor in Music are required to select 8 semester hours from the Materials of Music, Harmony and Form, and Musicianship sequences; MUS 412 Music History II. Five semester hours in applied music and/or ensembles are required.

A minimum of 8 semester hours shall be at the 300-400 level.

A full-time faculty member will be principal adviser to and administrator of the program, coordinating students' interests with available course choices and documenting completion of the required courses and credits for official registry of the music minor on the students' transcripts. Acceptance as a minor in Music requires an interview with the minor adviser and written confirmation from the adviser of the student's acceptance as a minor in Music.

All students are required to participate in audio and video recordings with their ensembles and cede individual performances rights to such recordings.

Philosophy

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- Major-Field Requirements
    - Majoring in Philosophy with a concentration in Ethics
- Certificate in Bioethics
- Minor in Philosophy
- PHL Courses
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Philosophy (B.A.)
At-a-Glance

Minimum hours required for major: 32, including 16 hours of core courses in logic and the history of philosophy, PHL 491 (4 hours) and 12 hours of electives, as described below

Minimum hours required for minor: 16 credit hours selected from courses eligible to count for the major

Advising: Designated faculty adviser; phone 216-687-3900.

Philosophy addresses fundamental questions about human knowledge and existence from constructive and critical perspectives. Students examine important historical and contemporary theories concerning ethics, social justice, reality and the nature and extent of knowledge. Logic is also central to philosophy, since the critical evaluation of the reasons given for ideas is as important as the study of the ideas themselves. For this reason, philosophy classes are well known for the presentation of philosophical problems and issues in a manner that stimulates questions, discussion, and a general appreciation for the pursuit of truth.

A philosophy major or minor is excellent preparation for fields such as law and business, which rely on skills of critical thinking, as well as for fields such as medicine and social work, where practitioners face ethical dilemmas in their work. Though useful in many careers, the study of philosophy can be expected to enrich a person's life beyond the rewards of the marketplace, through a deeper understanding of important beliefs and their foundations.

Major-Field Requirements

All students should contact the philosophy undergraduate advisor (687-3900) for the most current major requirements.

1. **Core Courses:** 16 credits;

    - PHL 130 Introduction to Logic or
    PHL 131 Deductive Logic I *or*
    PHL 332 Deductive Logic II

    - PHL 261 Ancient Philosophy
    - PHL 262 Medieval Philosophy
    - PHL 263 Early Modern Philosophy

2. **Electives:** 12 credits, no more than 4 credits below the 300 level.

3. PHL 491 Senior Seminar in Philosophy. A variable topics course which fulfills the capstone requirement in philosophy.

Majoring in Philosophy with a Concentration in Ethics

Philosophy majors with an interest in ethics may declare a major in philosophy with a concentration in ethics. Students pursuing this program take core courses in the fundamentals of philosophy and ethics. Additional electives must include one course in the study of values and conduct, such as the philosophy of art, religion, law, or social and political philosophy. A major in philosophy with a concentration in ethics is excellent preparation for advanced study in ethics, law, public administration, social work, and other fields in which ethical dilemmas arise amidst unresolved conflicts.

Requirements for a B.A. in Philosophy with a Concentration in Ethics:

1. Core courses, 16 credits:

- PHL 130 Introduction to Logic or
  PHL 131 Deductive Logic I or PHL 332 Deductive Logic II
- PHL 211 Morals and Rights, or
  PHL 213 Environmental Ethics, or
  PHL 240 Health Care Ethics, or
  PHL 215 Engineering Ethics
- PHL 263 Early Modern Philosophy
- PHL 283 Introduction to Ethics

2. Ethical Theory, 4 credits:

- PHL 311 Ethics

3. Value Theory Electives, at least 4 credits selected from the following fields:

- PHL 321 Philosophy of Art
- PHL 331 Philosophy of Religion
- PHL 341 Philosophy of Law
- PHL 351 Social and Political Philosophy

4. PHL 491 Senior Seminar in Philosophy. A variable topics course which fulfills the capstone requirement in philosophy.

5. Other Upper-Level Electives, 4-5 credits.

Note that students who fulfill the core requirement with either PHL 215 or PHL 240 rather than PHL 211 or PHL 213 will need an additional credit hour to fulfill the 32-credit-hour major requirement.

All students may choose electives from courses which count toward the Certificate in Bioethics, or from among other advanced philosophy courses.

Bioethics Certificate

The Undergraduate Certificate in Bioethics is designed primarily for persons preparing for careers in medicine, nursing, social work, psychology, education, one of the health sciences, or other health-related professions. It can also serve upper-level students preparing for careers in law or business who wish to understand health policy, law, and clinical practice in relation to philosophy and ethics. The Certificate in Bioethics will attest that the student has completed a course of study in moral theory and clinical practice, law, or policy related to bioethics. Enrollment will be open to upper-level undergraduates, and others by petition. Both degree-seeking students and non-degree students are eligible.

All bioethics courses are offered online and include the following four-credit courses:

- PHL 440 Moral Reasoning and Bioethics
- PHL 441 Clinical Issues in Bioethics
- PHL 442 Policy Issues in Bioethics
- PHL 443 Bioethics and the Law
- PHL 444 Bioethics and Biotechnology
- PHL 445 Health Economics and Bioethics
- PHL 446 Ethics of Human Reproduction

The program requires a total of 12 semester hours in bioethics at the undergraduate level, distributed as described below, with a grade of at least 3.0 quality points in each:

1. Moral Reasoning Requirement (4 credits), fulfilled by taking:
    - PHL 440, Moral Reasoning and Bioethics (4 credits);
2. Bioethics Electives (8 credits), chosen from the other courses listed above.

For additional information, contact the Philosophy Department at 216-687-3900.

Philosophy Minor

Minimum hours required for minor: 16 credit hours selected from courses eligible to count toward the major

Political Science

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- Major-Field Requirements
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- The Minor
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- PSC Courses
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Political Science (B.A.)
At-a-Glance

Minimum Hours Required for Major: 32

Minimum Hours Required for Minor: 16

Department Office and Contacts: Rhodes Tower 1744; Telephone: 687-4541; e-mail address: v.varaljay@csuohio.edu; home page: http://www.csuohio.edu/class/politicalscience. All political science faculty members can be reached through the home page, or by sending an e-mail to them at [first initial].[last name]@csuohio.edu. Several faculty members have their own home pages which can be accessed through the World Wide Web.

Special Tracks and Joint Programs: public service specialization, political communication

Foreign Study Abroad: China (Suzhou), Germany, France (Clermont) and others which can be arranged through the Center for International Services and Programs

Awards: Distinguished Student Award, Distinguished Senior Seminar Paper Award, Outstanding Student Intern Award, Membership in Pi Sigma Alpha National Political Science Honor Society

Admission to the Major: Majors in the regular political science program must complete PSC 111 (Introduction to American Government) prior to declaring their major. Prospective majors are encouraged to take PSC 111 in their freshman year as part of their university General Education requirement. Then, early in the sophomore year, students should arrange a meeting with the department chair to discuss declaring a major. Transfer students from community colleges and other four-year institutions should declare their political science major as soon as possible after arriving on campus. *NOTE:* The prerequisite of PSC 111 does not apply to International Relations majors.

Advising: All prospective majors should schedule an appointment with the chair to discuss their education and career interests. On the basis of this meeting, students decide which political science program they will follow. They can see their adviser each semester to discuss the next semester's registration and any career or post-B.A. training issues. There are also separate advisers available to assist students with internships in public service or international relations.

Service Courses: In addition to the major, the Department of Political Science offers a number of courses which fulfill the university's General Education Requirements.

- PSC 111 American Government (4 hours) PSC 217 African-American Experience in Urban Politics (3 hours)
- PSC 221 Comparative Politics (4 hours) PSC 227 Power, Authority and Culture in Nonwestern Communities (4 hours) PSC 231 International Politics (4 hours) PSC 274 Introduction to the Middle East (4 hours)
- PSC 305 Cultural Diversity in U.S. Politics (4 hours) PSC 340 Foundations of Political Thought (4 hours) PSC 341 Modern Political Thought (4 hours)
- PSC 342 American Political Thought (4 hours) PSC 420 Seminar in American Politics (5 hours)
- PSC 421 Seminar in Comparative Politics (5 hours) PSC 422 Senior Seminar in International Relations (5 hours) PSC 423 Seminar in Political Theory (5 hours)

Additional Information:

The program in political science is designed to help students understand contemporary public policy, the importance of politics and democracy in their lives, and the means of influencing government to respond to collective needs. The Department of Political Science offers a major and a minor for both day and evening students. Details of the minor program are available in the department office.

The department also offers a public-service specialization as an alternative track to the regular departmental major. This specialization is designed specifically for those majors planning a career in the public sector, although it could prove equally useful to those seeking careers in the private sector. Details of this specialization are available in the department office. The department also offers a separate interdisciplinary major in international relations (see separate listing).

The political science curriculum stresses a broad understanding of the workings of political processes in the United States and abroad; the cultural and ideological bases of modern governments; and the acquisition of skills for evaluating public policies and participating in the political process. Political science bridges liberal arts and sciences, and the Cleveland State Department of Political Science stresses the importance of both scientific and humanistic approaches to the field.

A major in political science helps to prepare students for careers in government, the legal profession, politics, community organizations, national and international nonprofit organizations, journalism and the mass media, and education. Many political science graduates take positions in business and industry as well.

Students must maintain at least a 2.0 GPA in political science courses in order to graduate with a major or minor.

Evening Program

The department offers a major and a minor in the evening. Required core courses are offered at night at least once during the regular academic year, and intermediate- and advanced-level courses are offered with sufficient regularity so that a student could complete the degree over a four-year period.

Major-Field Requirements

(32 semester hours)

A minimum of 32 hours in political science beyond PSC 111 is required for the major. The program is divided into three parts: the Common Core, Field Distribution Requirements, and Seminar (or Internship)

1. **Common Core**: 7 hours
    - PSC 251 Introduction to Data Analysis (3 hours)
      plus EITHER

- PSC 221 Comparative Politics (4 hours)
  OR
  PSC 231 International Politics (4 hours)

2. **Field Distribution Requirements** (20 hours at the 300- to 400-level)
   A. One course in political theory (PSC 340, 341, 342) (4 hours)
   B. Two courses in American politics (8 hours)

      American Politics Courses:

      PSC 301 Urban Politics and Policy, PSC 305 Cultural Diversity in U.S. Politics, PSC 310 Constitutional Law, PSC 311 Civil Rights & Civil Liberties, PSC 314 State Government & Elections, PSC 315 Public Policy and Administration, PSC 317 Political Parties and Elections, PSC 318 The Presidency and Congress, PSC 319 Public Opinion

      C. Two courses in the comparative/international politics field (8 hours)

      Comparative/International Politics Courses:

      PSC 321 Political Violence, PSC 323 African Politics, PSC 324 Russia & the Successor States, PSC 325 Western European Politics, PSC 326 Politics of the Third World, PSC 327 Politics of Peaceful World Change, PSC 328 International Political Economy, PSC 329 Politics and Political Economy of the European Union; PSC 330 U.S. National Security Policy, PSC 331 U.S. Foreign Policy, PSC 332 Politics in the Middle East, PSC 333 Latin America Politics, PSC 334 Causes of War, PSC 335 East Asian Politics, PSC 337 Canadian Government & Politics, PSC 338 Central & Eastern Europe, PSC 339 Political Economy of Africa & the Middle East

Seminar (5 hours) Prerequisite: completion of Common Core and at least one 300- or 400-level course in the field, or permission of the instructor.

One PSC 400-level seminar in any field

Seminar Courses:

PSC 420 American Politics, PSC 421 Comparative Politics, PSC 422 International Politics, PSC 423 Political or Legal Theory, PSC 424 Urban Politics

Public Service Specialization

(36 Semester Hours)

Students who seek a political science program that is more oriented toward practical politics and government service can take the regular political science degree with a specialization in public service. Requirements of this program are identical to those of the political science major with two exceptions: public-service track majors take an internship (PSC 401, 402, 403 or 405, for 6 hours of credit) instead of the senior seminar, as their capstone course. They also take one course specifically related to their internship, as well as the usual field-distribution requirements for the major.

Admission to the Public Service Track: Students wishing to specialize in the public-service track must meet the same requirements as regular political science majors. They must complete PSC 111 (Introduction to American Government) prior to declaring their major. When they declare their major they should inform the

chair of their intention to specialize in public service. They will then be assigned to the internship adviser for all further advising on their program and on their internship. Students will need a 3.0 in their major or permission of the instructor to enroll in an internship.

Common Core: 7 hours

- PSC 251 Introduction to Data Analysis (3 hours)
  plus EITHER
- PSC 221 Comparative Politics (4 hours)
  OR
  PSC 231 International Politics (4 hours)

2. **Field Distribution Requirements** (24 hours)
   A. One course in political theory (PSC 340, 341, 342) (4 hours)
   B. One course in American politics linked to the internship (4 hours). Students should select this course as a function of the Internship that they intend to pursue
   C. Two additional courses in American politics and institutions (other than PSC 301 *or* PSC 314) in the series 312-318 (8 hours)

   American Politics Courses:

   PSC 301 Urban Politics and Policy, PSC 305 Cultural Diversity in U.S. Politics, PSC 310 Constitutional Law, PSC 311 Civil Rights & Civil Liberties, PSC 314 State Government & Elections, PSC 315 Public Policy and Administration, PSC 317 Political Parties and Elections, PSC 318 The Presidency and Congress, PSC 319 Public Opinion

   D. Two courses in the comparative/international politics field (8 hours)

      Comparative/International Politics Courses:

      PSC 321 Political Violence, PSC 323 African Politics, PSC 324 Russia & the Successor States, PSC 325 Western European Politics, PSC 326 Politics of the Third World, PSC 327 Politics of Peaceful World Change, PSC 328 International Political Economy, PSC 329 Politics and Political Economy of the European Union; PSC 330 U.S. National Security Policy, PSC 331 U.S. Foreign Policy, PSC 332 Politics in the Middle East, PSC 333 Latin America Politics, PSC 334 Causes of War (Formerly US-Latin American Security Issues), PSC 335 East Asian Politics, PSC 337 Canadian Government & Politics, PSC 338 Central & Eastern Europe, PSC 339 Political Economy of Africa & the Middle East

Tracks in Public Service

A. Urban Politics: PSC 301 Urban Politics and Policy, any two 300-level courses in the American sub-field, and the City Council Internship (PSC 401)
B. State Politics: PSC 314 State Government and Politics, any two 300-level courses in the American sub-field, and the State Government Internship (PSC 405)
C. National Politics: Any three courses in the American field, excluding PSC 301 or PSC 314, plus the Administrative Internship (PSC 403)
D. Electoral Politics: PSC 317 Parties and Elections, any two courses in the American sub-field, and Campaign Politics Internship (PSC 402)

Internship (6 hours)

Prerequisite: completion of Common Core, relevant 300-level course in preparation for the internship (PSC

301, PSC 305, PSC 314, PSC 317) and a 3.0 grade-point average in their major to be eligible for an internship, *or* permission of the instructor. PSC 401 City Council Internship Program, PSC 402 Campaign Politics Internship, PSC 403 Administrative Internship Program, PSC 405 State Government Administrative Internship.

The Minor

The department offers a minor in political science structured so that a student can experience one of four political science areas of concentration: American Politics, Public Law and Theory (of particular interest to prelaw students not wishing to major in Political Science), Comparative Politics, and International Politics.

Requirements for the Minor: 16 to 17 semester hours depending on choice of courses

American Politics Concentration:

- PSC 111 (4 hours)
- 2 courses in American Politics at 300-level (8 hours)
- Any additional 300- or 400-level course, including PSC 420 Seminar in American Politics (5 hours)

American Politics Courses:

PSC 301 Urban Politics and Policy, PSC 305 Cultural Diversity in U.S. Politics, PSC 310 Constitutional Law, PSC 311 Civil Rights & Civil Liberties, PSC 314 State Government & Elections, PSC 315 Public Policy and Administration, PSC 317 Political Parties and Elections, PSC 318 The Presidency and Congress, PSC 319 Public Opinion

Public Law and Theory Concentration:

- PSC 111 (4 hours)
- Two 300-level Law or Theory courses
  (PSC 310, PSC 311, PSC 340, PSC 341, PSC 342)
- Any additional 300- or 400-level course, including PSC 423 Seminar in Legal Theory (5 hours)

Law and Theory Courses:

PSC 310 Constitutional Law, PSC 311 Civil Rights and Civil Liberties, PSC 340 Ancient & Medieval Political Thought, PSC 341 Modern Political Thought, PSC 342 American Political Thought

Comparative Politics Concentration:

- PSC 221 (4 hours)
- 2 comparative politics courses at 300-level from among PSC 323, PSC 324, PSC 325, PSC 326, PSC 329, PSC 332, PSC 333, PSC 335, PSC 337, PSC 338, PSC 339
- Any additional 300- or 400-level course, including PSC 421 Seminar in Comparative Politics (5 hours)

Comparative Politics Courses:

PSC 221 Comparative Politics; PSC 323 African Politics, PSC 324 Russia and the Successor States, PSC 325 Western European Politics, PSC 326 Politics of the Third World, PSC 329 Politics and Political Economy of the European Union, PSC 332 Politics in the Middle East, PSC 333 Latin American Politics,

PSC 335 East Asian Politics, PSC 337 Canadian Government & Politics, PSC 338 Central and Eastern Europe, PSC 339 Political Economy of the Middle East and North Africa

International Politics Concentration:

- PSC 231 (4 hours)
- Two international politics courses at 300-level from among PSC 321, PSC 327, PSC 328, PSC 330, PSC 331, PSC 334
- Any additional 300- or 400-level course, including PSC 422 Seminar in International Politics (5 hours)

International Politics Courses:

PSC 231 International Politics, PSC 321 Political Violence, PSC 327 Politics of Peaceful World Change, PSC 328 International Political Economy, PSC 330 U.S. National Security Policy, PSC 331 U.S. Foreign Policy, PSC 334 Causes of War (Formerly US-Latin American Security Issues)

Certificates

- Central and Eastern European Studies
- International Studies
    - Language and Culture for Global Affairs
    - Cross-Cultural Communication
- Latin American Studies

Central and Eastern European Studies (Certificate)

The re-emergence of Central Europe has been one of the most significant developments of this generation. The "lands between," as those countries have been called, have historically been deeply influenced, and at times dominated, by Russia and Germany.

This certificate program should be useful to students across the university to add an international focus to their studies. Members of the Greater Cleveland community, especially those with business interests in the area, may also find this program of particular value.

Required Courses:

Students wishing to earn a Certificate in Central and Eastern European Studies must complete 16 semester hours from the following list of courses. These courses must come from at least two different disciplines. If the student is completing a major in one of those disciplines, only one course taken to meet the minimum major requirement may also be counted toward the certificate.

- ENF 216 Foreign Film (with appropriate topic)
- ENF 217 Foreign Film (with appropriate topic)
- GER 235 Germany Today
- GER 240 Field Studies
- GER 402 Advanced Composition and Conversation (when taught as a culture course)
- GER 448 German Culture and Civilization
- GER 493 Special Topics in German
- HIS 360 History of Russia to 1900
- HIS 361 History of Modern Russia
- HIS 362 Modern Eastern Europe

- HIS 393 Special Topics in History (with appropriate topic)
- MLA 115 Contemporary Western Cultures (with appropriate topic)
- PSC 324 Russia and The Successor States
- PSC 338 Central and Eastern Europe
- PSC 394 Special Topics (with appropriate topic)
- PSC 421 Seminar in Comparative Politics (with appropriate topic) Other courses in these or other departments may be taken with approval of the program committee.

For additional information contact: the Department of Political Science 216-687-4541, the Department of History 216-687-3920, or the Department of Modern Languages 216-687-4645.

Latin American Studies (Certificate)

The interdisciplinary nature of the program allows students to supplement their majors with relevant skills provided by other disciplines. A History major could demonstrate language and other humanities skills, as well as social science competence, without having to complete a minor in any one (not to mention all) of those areas. Similarly, a Political Science major could add the Latin American Studies certificate to show competence in the humanities.

International business students may well want to concentrate on Latin American Studies to fulfill the requirement for courses outside the College of Business Administration. The certificate program may enhance employment possibilities or satisfy personal interests.

Curricular Philosophy

1. Students should have the freedom to build a set of courses which provides a personal and professional perspective within the framework of the certificate program.
2. The study of languages is essential for communication across cultures.
3. Study in the country or culture of interest is a preferred avenue to prepare for a career that crosses cultures.
4. Specialization in an area implies effort and achievement beyond minimal standards. A relatively high standard of student work in this certificate affirms the college's quest for continued excellence.

Requirements:

(16 semester credits)

A. **Basic Courses** - at least 6 credits must come from among the following, and must be in departments other than the student's major(s):
    - ANT 352 Native South Americans
    - HIS 165 Intro. to Latin American History
    - PSC 333 Latin American Politics
    - SPN 203 Culture and Civilization (predominantly Spanish America)
B. **Electives** - the remaining credits will be chosen from among these courses:
    - ART 388 African-American Art (including Brazilian)
    - HIS 366 Colonial Latin America
    - HIS 367 Modern Latin America
    - PSC 326 Politics of the Third World
    - SPN 346 Latin American Civilization
    - SPN 372 Introduction to Spanish American Literature
    - SPN 484 Studies in Spanish American Literature (sample topic: Theater of Protest in Latin America)

(or from among the courses in "A" above not counted toward that requirement)
Other courses may apply toward elective credit with the approval of the Program Committee.

C. All students must fulfill the college foreign-language requirement in either Spanish or Portuguese. In addition, of the courses taken toward the certificate, one must be designated SPN (in Spanish) (or the equivalent in Portuguese). If the student has declared a Spanish major or minor, this requirement will not apply.
D. Foreign study in a Latin American country will be encouraged. Exchange programs will be explored as appropriate through faculty contacts and the director of International Programs. Up to 6 credits of study abroad which is of the nature of the courses in the Basic and Elective curriculum may be applied toward elective credit for the certificate.
E. A minimum cumulative GPA of 2.5 is required for certificate course work. No more than one S/U course may be counted toward the certificate.

For additional information contact: the Department of Anthropology 216-687-2414, the Department of History 216-687-3920, the Department of Political Science 216-687-4541, or the Department of Modern Languages 216-687-4645.

Religious Studies

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Religious Studies (B.A.)
At-a-Glance

Minimum hours required for major: 34
(30 if a second major)

Minimum hours required for minor: 18

Advising: Dr. Matt Jackson-McCabe, phone: 216-687-2170.

Religion is a fundamental part of the way that humans define their cultures, identify themselves in contrast to “others,” organize their societies, and conceive of the meaning and purpose of existence. The aim of the Religious Studies program is to supply the critical methodologies, historical knowledge, and academic skills necessary for an academic understanding of religions, and thus to prepare students for a wide range of professional and academic pursuits.

Major-Field Requirements

The Department of Religious Studies requires 34 credit hours for a major. Of the 34 required credit hours, at least 20 credits must be in 300- or 400-level courses. The specific courses required for the major will be determined on an individual basis in consultation with a departmental adviser. Religious Studies 498 is required for all majors.

A Religious Studies major who wishes to complete a second major in another field may have the number of credits required for the Religious Studies major reduced from 34 to 30.

Religious Studies Minor

The Department of Religious Studies requires 18 credit hours for a minor. Of the 18 required credit hours, at least 12 credits must be in 300- or 400-level courses.

Courses in Cognate Fields

The Department of Religious Studies will allow students to take courses offered by cognate departments to satisfy some requirements for the major and minor. These courses must be approved by the Department of Religious Studies. A student may take up to 8 hours for the major or up to 4 hours for the minor.

A major or a minor in Religious Studies is not available to evening students.

Social Science

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Social Science (B.A.)
At-a-Glance

Admission to major: No requirement other than good academic standing in the College of Liberal Arts and Social Sciences

Hours for major: 48 (including 11 hours in three of the following fields and 15 hours in the other: sociology, political science, economics and psychology)

Advising: Undergraduate adviser and Student Handbook

Student Organization: Sociology/Criminology Club

For Information: Contact the Sociology and Criminology Department. Phone 216-687-4500

The major in Social Science is designed for students seeking a broad, diverse background as preparation for various occupations or for more specialized training in such fields as law, journalism, the ministry, social work, or education.

Major-Field Requirements

Students electing a major in Social Science must complete a total of 48 semester hours distributed among economics, political science, psychology, and sociology. Fifteen hours must be earned in one of these fields and 11 hours in each of the remaining three.

Although the mix of upper- and lower-division courses is not specified, students should keep in mind that 42 upper-division credits are required for a degree in Liberal Arts and Social Sciences. This composite major is administered by the Department of Sociology and Criminology.

Social Studies

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Social Studies (B.A.)
At-a-Glance

Mission: The primary mission of the Social Studies major is to provide students with the content competency to teach Social Studies in secondary schools. It forms the content knowledge basis for students to initiate teaching professions and provides the necessary critical thinking, analytical reasoning, and academic judgment skills upon which to embark on a lifetime of intellectual growth.

Hours Required in the Major: 73 - 82 hours of specific courses or thematic areas chosen from history, anthropology, economics, political science and sociology. Some of these courses also can be used to partially fulfill General Education requirements.

Teaching Licensure: A comprehensive program for students seeking teaching licensure in Social Studies is administered through the College of Education and Human Services. Interested students are urged to contact the college for further information.

Admission to the Major: Students register their intentions to pursue an academic major in Social Studies with the Department of History; those interested in teaching must be admitted to the teaching licensure program in the College of Education and Human Services.

After admission to the university, a student obtains a "Declaration of Major" packet from the History Department in RT 1319 that explains the advising procedures and asks the student for a writing sample and answers to a few questions. Once this information has been gathered, the student phones the History Department (687-3920) for an initial advising appointment with the Director of Undergraduate Studies. The Director will evaluate transfer credits for the major and give the student a copy of the filled out check-sheet. Following this advising session, students will receive a letter with the name of their individual faculty advisor in the department.

Advising: Director of Undergraduate Studies, Dr. Tom Humphrey 216-523-7183; Individual faculty advisers; webpage, http://www.csuohio.edu/history Students are urged to meet with their assigned faculty advisor at least once every semester.

The Social Studies major will have an academic adviser in the History Department in the College of Liberal Arts and Social Sciences as assigned by the department. *Those seeking a teaching license should have an adviser for education course work in the College of Education and Human Services*.

This interdisciplinary major is administered by the Department of History and is primarily intended for students seeking secondary licensure. It provides comprehensive training in history and related social-studies fields taught in Ohio secondary schools. Interested students should also consider pursuing academic major(s) and/or academic minor(s) in history, political science, or economics.

For information: Call Dr. Tom Humphrey, 216-523-7183, or the History Department, 216-687-3920 or history.department@csuohio.edu. Those interested in licensure should contact the College of Education and Human Services.

Major-Field Requirements

The curriculum for the Social Studies major consists of a common core and one area of concentration chosen from three areas. The following courses are required of all Social Studies majors:

The Core:

- HIS 101 Western Civilization I
  OR
  HIS 102 Western Civilization II
- HIS 111 U.S. History to 1877
- HIS 112 U.S. History since 1877
- HIS 165 Introduction to Latin American History
  OR
  HIS 175 Introduction to African History
- HIS 200 Introduction to Geography
- HIS 215 History of African-Americans to 1877
  OR
  HIS 216 History of African-Americans since 1877
- HIS 301 American Cultural History
  OR
  HIS 304 U.S. Urban History
- HIS 370 World History
- HIS 390 Introduction to Social Studies
- HIS 400 Local History Seminar
- ECN 201 Principles of Macroeconomics
- ECN 202 Principles of Microeconomics
- PSC 111 American Government
- PSC 221 Comparative Politics
  OR
  PSC 231 International Politics
- PSC/HIS/ANT/SOC 227 Power, Authority and Society in Non-Western Communities
- ANT 102 The Study of Culture
  OR
  HIS 323 Recent American History
  OR
  SOC 101 Introduction to Sociology

Complementary Core:

(Select 1 of the 3 areas below)

- **Anthropology Core**
  - Two of the following:
    - ANT 270 AfricanAmerican Culture
    - ANT 324 Anthropology of Gender
    - ANT 351 Native North Americans
  - Two of the following:
    - ANT 352 Native South Americans

        - ANT 353 Cultures of Africa
        - ANT 354 Cultures of Oceania
        - ANT 394 Area Studies in Anthropology
- **Political Science Core**
    - PSC 217 Urban Politics & the African American Experience
      OR
      PSC 305 Cultural Diversity in U.S. Politics
    - PSC 318 The Presidency and Congress
      OR
      PSC 342 American Political Thought
    - Two of the following:
        - PSC 310 Constitutional Law
        - PSC 311 Civil Rights and Civil Liberties
        - PSC 314 State Government and Politics
        - PSC 315 Public Policy Administration
        - PSC 327 Peaceful World Change
- **Sociology Core**
    - SOC 101 Introduction to Sociology
    - One of the following:
        - SOC 342 Sociology of Law
        - SOC 383 Political Sociology
    - Two of the following:
        - SOC 201 Race, Class, and Gender
        - SOC 203 Sociology of Poverty
        - SOC 215 Black/White Interaction
        - SOC 267 Studies in the Black Family
        - SOC 317 Sociology of Gender
        - SOC 380 Minorities

Distribution: Additional courses needed to ensure that at least one course is included from Anthropology and Sociology.

Sociology

On this page:

- Major-Field Requirements
  - Sociology
  - Criminology
- Internships
- Honors Program
- Sociology Minor
- Criminal Justice Minor
- Certificate Program: Criminal Justice

Sociology (B.A.)
At-a-Glance

Admission to major: No requirement other than good academic standing in the College of Liberal Arts and Social Sciences.

Minimum hours required for major: 33 (including SOC 101, 201, 352, 354, 400, and four other Sociology courses, with at least 3 at the 300- to 400-level)

Minimum hours required for minor in sociology: 18 (including SOC 101, 201, and 352, and at least one of the two electives at the 300- to 400-level)

Advising: Undergraduate Adviser and Student Handbook.

Student Honorary Society: Alpha Kappa Delta

Awards: Annual Distinguished Sociology/Criminology Student Award

Student Organizations: Sociology/Criminology Club

For Information: Contact the Sociology and Criminology Department. Phone: 216-687-4500

Sociology is the study of social life and the connections among persons in groups and institutions that helps to illuminate and explain the causes and consequences of human behavior. It focuses on the interrelationships among political, economic, cultural, and social structures by combining scientific and humanistic perspectives to study a wide range of issues, from face-to-face interaction at the micro level to conflict between developed and less-developed nations at the macro level.

Sociology students at Cleveland State University learn a perspective through which to analyze modern social life. Substantive courses in such areas as criminology, marriage and family, third world, poverty, social inequality, mental illness, gerontology, and education, examine specific social relationships and institutions. In core courses students are taught how to do research using both quantitative and qualitative methods and gain a greater appreciation of sociological theories.

While learning research skills and an understanding of the sociological perspective, majors in sociology develop the critical thinking and writing skills basic to a sound liberal-arts education to prepare them for a wide range of careers. Upon graduation, some students pursue graduate and professional degrees while others gain employment in the criminal justice system, social services, non-profits, and corporations.

Major-Field Requirements

In establishing the requirements of the major in Sociology, the Department of Sociology and Criminology maintains these objectives: to introduce students to the sociological perspective and its uses, to teach the principles of sociological research and the fundamental skills needed to use them, and to prepare students for advanced training at the professional and graduate-school levels.

A minimum of 33 hours in Sociology is required for a major. The hours must include these core courses:

- SOC 101 Introduction to Sociology
- SOC 201 Race, Class, and Gender
- SOC 352 Sociological Theory
- SOC 354 Quantitative Sociological Research
- SOC 400 Capstone Course

In addition, students must complete four elective courses, at least three of which must be at the 300- to 400-level.

Although a student is free to complete the major requirements with any combination of Sociology electives, the department believes that the major program is greatly strengthened and better organized when there is judicious selection of electives. The department makes available to every student who declares a major in Sociology an Undergraduate Adviser. The student is expected to plan a total academic program with the assistance of the departmental adviser.

Internships in Sociology

Students may qualify for a 4-credit internship in Sociology (SOC 490) by achieving an overall GPA of 3.0 in the major or minor, completion of the required courses, and junior or senior standing. Students who qualify must arrange an internship with the departmental coordinator (call 216-687-4500). Internships may be for up to 8 credit hours. However, only 4 of these hours may be applied toward the requirements for the major.

Honors Program

The honors program is intended as an additional experience for Sociology majors who have high GPAs and would like more in-depth training in sociology. A variety of honors experiences tailored to students' interests is offered including additional work in an established course, enrollment in a graduate course, participation in a faculty member's research project, supervised independent research, and service learning. Students must apply for the honors program no later than the end of their junior year; have completed 2 of the 4 upper-level core courses and a minimum of 60 credit hours; and have an accumulated GPA of 3.3 or higher in all classes. To graduate with Honors in Sociology, a student must participate in the honors program for two semesters, at least 4 hours per semester; receive a grade of at least B+ in each course taken for honors credit; and graduate with at least a 3.3 overall GPA. For further information contact the Department of Sociology and Criminology office, 216-687-4500.

Sociology Minor

A minimum of 18 hours in sociology is required for a minor. The 18 hours must include:

- SOC 101 Introduction to Sociology
- SOC 201 Race, Class and Gender
- SOC 352 Sociological Theory

In addition, students must complete two electives, at least one of which must be at the 300- to 400-level.

Spanish

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- Study Abroad
- Teacher Licensure
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Spanish (B.A.)
At-a-Glance

Admission to major: Completion of SPN 102 or equivalent

Minimum hours required for major: 36

Minimum hours required for minor: 18

Special tracks: The Spanish major integrates the study of Spanish Peninsular and Latin American areas of literature, linguistics and culture. Students can also concentrate in language studies or combine any of the above areas for teaching or other professional careers.

Advising: Faculty advisers for majors, minors and prospective students. Phone 216-687-4645

Student organizations:, Phi Sigma Iota Honorary Society, La Mesa Hispana

Transfer Students. Transfer students are required to complete at least 18 credit hours while in residence at Cleveland State University in order to earn a degree.

Additional information: Study-abroad programs in Mexico, Costa Rica and Spain

The sequence of courses in Spanish leads from competence in Spanish language skills to thorough understanding of Hispanic language, civilization, and literature. Programs concentrate equally on Spanish and Latin-American content through a cyclical offering of courses. Programs in the Spanish minor, major, and graduate studies are available, including the B.A. with Honors in Spanish. Spanish is also a valuable adjunct skill to many other major programs or careers. Over the next few decades virtually every area of professional activity in this country will become more involved with Spanish-speaking Americans and with corporations in Spanish-speaking countries.

Course Information: A student majoring in Spanish will find career opportunities in teaching, foreign service, industry, or communications. Language study involves mastery both of performance skills (speaking, reading, writing, understanding) and of a subject matter. The subject matter may be the language itself, its literature, culture, or pedagogy.

Courses numbered from 100 to 114 in Spanish generally emphasize development of performance skills, as do those at higher levels, in courses numbered 200 to 214, 300 to 314, and 400 to 414. Courses numbered 115 to 134 (and corresponding numbers at the upper levels) generally emphasize the nature of language. Courses numbered 135 to 164 (and corresponding numbers at the upper levels) generally emphasize the culture and

history of specific languages. Courses numbered 165 to 189 (and corresponding numbers at the upper levels) generally emphasize the literatures of the specific languages. Courses numbered 190 – 199 (and corresponding numbers at the upper level) are independent and specialized courses.

Language Skill Courses: A student who has completed Spanish course work in high school or at another institution who wishes to continue the study of Spanish must begin course work for credit at the level consistent with academic background. A placement test is required for all students with less than three years of high-school Spanish or the equivalent. Students who have had three or more years of previous study must consult with an adviser in the foreign language department to determine the appropriate level.

Native speakers: As a general guideline, students who read and write Spanish fluently must begin course work for credit at the 300-level or higher. Students considering a major in Spanish should consult an adviser in the Department of Modern Languages as early as possible to plan an effective course of study.

Retroactive Credit. Students are eligible to earn up to 14 "retroactive" credits for previous knowledge of Spanish. This policy is for students who have completed a foreign language skills course and who earned a B or better in that course. For example, if your first Spanish skills course is SPN 102 and you receive an A or B, you can receive credit for SPN 101. Consult the Department of Modern Languages 216-687-4645 for further information.

Credit by Examination. Students who successfully pass the College Level Placement Examination (CLEP test) in Spanish may earn 14 credit-hours for previous knowledge of Spanish. For information about the examination, eligibility, and dates when it is given, contact the Cleveland State Testing Center 216-687-2277. Students who receive a score of 3, 4 or 5 on the Advanced Placement Spanish language examination may earn 18 credit hours for SPN (101, 102, 201, and 202).

Note that only credits at the 200-level and above may count toward the Spanish major or minor. See major and minor requirements below.

Major-Field Requirements

Students seeking a major in Spanish must complete 36 credit hours in Spanish above the 100 level, distributed as follows:

- **Core A:** Composition and Conversation Requirements:
  Sixteen credit hours of courses in composition and conversation: SPN 201, 202, 203, 207, 301, 302, 303, 393 (Business Spanish); 402; or equivalent as determined by the Spanish faculty, of which no more than 8 credit hours can be at the 200 level. Students beginning at the 300 level will take 8 credit hours at the 300- and 400-level.
- **Core B:** Distribution Requirements:
  One course each in linguistics (SPN 315), in literature (SPN 371 or SPN 372), and in culture and civilization (SPN 345 or SPN 346) is required (three courses total).

Notes: No more than 8 credit hours at the 200 level will be counted. At least 9 credit hours must be at the 400 level. At least 28 credit hours must be in upper-division courses at the 300- or 400-level. Up to 6 credit hours of practicum in Spanish or independent study may count toward the major. These credits must be approved by the Spanish faculty. No grade below C may count toward the major.

Minor-Field Requirements

A minor in Spanish consists of 18 credit hours beyond the 100 level, of which 9 credit hours must be at the 300-level or above. Transfer students must complete 9 hours of the 18 required for the minor in residence at

Cleveland State University. Students seeking a minor in Spanish must have an adviser in Spanish to assist in the selection of courses. No grade below C in a minor course may count toward the minor.

Study Abroad

Majors are encouraged to arrange for study in a Spanish-speaking country. The department administers summer programs in Mexico, Costa Rica and Spain. Credit earned on these programs is considered part of the Cleveland State University Spanish sequence.

Students may also undertake independent study abroad at other institutions. Normally, up to 16 hours of independent study abroad may count toward the major requirements (additional credit may count toward the total hours needed for graduation). Majors should seek departmental approval of foreign-study plans before departure, and must complete at least two 300-level or 400-level courses in Spanish after return from independent study abroad. (See also the Study Abroad section listed under "College of Liberal Arts and Social Sciences.")

For further information regarding the possibility of foreign study and summer programs available through the Department of Modern Languages, contact the department office, 216-687-4645.

Teacher Licensure

Students preparing to teach will fulfill the requirements for the B.A. in Spanish and the licensure sequence in the College of Education and Human Services for the Specialization in Multi-Age Foreign Language Education (PreK-12). They must also pass national examinations and fulfill state requirements.

The PreK-12 licensure sequence includes courses in elementary and secondary foreign-language methods. Students will need to follow the sequence as described in the College of Education and Human Services. Before admission to student teaching, students must pass a Praxis II Principles of Learning and Teaching Test (K-6 or 5-9 or 7-12), the Praxis II Content Knowledge test, and demonstrate oral proficiency at the ACTFL “Advanced-Low” level. Students will need to have their skill level assessed as early as possible in the program and then work with their advisers to plan study experiences that provide appropriate opportunities for improvement. Modern Language methods courses must be completed the semester preceding student teaching.

Women's Studies

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- WST Courses
- Go to Women's Studies Program website

Women's Studies (B.A.)
At-a-Glance

Admission to the major: Requires good academic standing in the College of Liberal Arts and Social Sciences.

Minimum hours required for the major: 38 distributed in three fields

Minimum hours required for the minor: 16 distributed in three fields

Awards: WEAL Scholarship

Advising: Director of Women's Studies, Individual faculty adviser, CLASS Advising , CB 279.

For Information: Contact the Women's Studies Program. Phone: 216-687-4675

For the first time in history, individuals must be prepared to pursue sequential careers. To thrive in the 21st century students need academic credentials, transferable skills, critical & analytical thinking abilities, and the ability to comprehend information from a global perspective. A degree in Women's Studies prepares women and men for the sequence of careers that will be the hallmark of personal success in the 21st century. Women's Studies provides academic credentials and transferrable skills that will serve students for a lifetime.

Women's Studies is an interdisciplinary field offering academic preparation in liberal arts and social sciences. Students earn a B.A. having majored, double-majored or minored in WST. Transferable skills enable students to enter the workforce immediately, or to pursue graduate studies in dozens of disciplines.

Transferable Skills: WST students learn the critical writing, speaking & research skills of many academic disciplines. Students identify, find & interpret information from fields as diverse as philosophy, sociology, psychology, religion & anthropology.

Critical & Analytical Thinking: WST teaches students to discover and communicate new knowledge about women. WST students reinterpret existing knowledge about women's abilities, values and interests. WST students develop balanced interpretations of gender differences & similarities as they arise outside academia. Students learn to evaluate information presented about women in science, literature, art, marketing, politics & other fields. In the WST Practicum students integrate learning with workplace and/or volunteer experience.

Global Perspectives: WST students understand how gender roles shaped human societies. Because gender differences transcend race, religion, nationality & species, WST students recognize gender issues arising in international trade, migration, law & the environment.

Major-Field Requirements

To earn a Women's Studies major, students must take a minimum of 38 semester hours in Women's Studies courses. Courses are to be distributed over three departments with at least 6 credits in the humanities and 6 credits in the social sciences. Independent study (WST 496) may be included as part of the major. A grade of C or better must be earned in courses used to fulfill requirements for the major. Students are encouraged to use this framework to develop a more specialized Women's Studies curriculum based upon their particular career interests.

Required Courses

- WST 151 Introduction to Women's Studies
- WST 351 Practicum in Women's Studies
- WST 495 Advanced Seminar in Women's Studies

Additional Women's Studies Courses

In addition to courses listed below,certain special-topics courses may apply to the major if approved by the Women's Studies Faculty Curriculum Committee. See individual departmental listing for course descriptions and prerequisites.

WOMEN'S STUDIES COURSES FROM THE SOCIAL SCIENCES

- ANT 324 Anthropology of Gender
- ANT 243 Language and Gender
- COM 331 Gender and Communication
- EDB 455 Women and Education
- HSC 346 Women's Health
- NUR 493: Special Topics: *when offered as Women's Health* …
- PSY 255 Psychology of Women
- PSY 352 Human Sexuality
- SOC 201 Race, Class, Gender
- SOC 302 Women in Corporate America
- SOC 310 Sociology of Marriage and Family
- SOC 317 Sociology of Gender
- SOC 349 Women and Crime
- UST 455 Gender and Leadership (cross-listed as NAD 455)
- WST 393 Special Topics in Women's Studies
- WST 496 Independent Study

WOMEN'S STUDIES COURSES FROM THE HUMANITIES

- ARB 380 Women in the Arab World
- ENF 214 Women Writers in English Translation
- ENF 215 Women Writers in English Translation
- ENG 207 African American Literature *when offered by WST faculty*
- ENG 208 Womanism/Feminism
- ENG 330 Studies in Ancient Literature *when offered as Feminist Approaches to Classical Literature*
- ENG 333 Studies in Restoration and 18th-Century British Literature *when offered as Feminist Approaches to 18th Century Fiction*
- ENG 334 Studies in 19th Century British Literature *when offered as Feminist Approaches to 19th Century Fiction*

- ENG 335 Studies in 20th Century British and Anglophone Literature *when offered as Feminist Approaches to 20th Century Fiction*
- ENG 363 Gender Issues in Literature
- ENG 375 Major Authors *when offered as Jane Austen,or the Bronte sisters,or Emily Dickinson, or Toni Morrison.or Virginia Woolf*
- FRN 365 Readings in French Literature *when offered as French Decadence: Literature & Sexuality*
- FRN 493 Special Topics in French *when offered as French Women Writers: From the Middle Ages to the Present*
- HIS 284 History of Women
- HIS 327 American Sexual Communities and Politics
- HIS 354 European Women's History
- HIS 381 Class, Gender and Sexuality in China: 1700-present
- HIS 393 Special Topics in History: *when offered as History of Women in America, History of African-American Women*
- MLA280 Women in the Arab World
- PHL 253 Philosophy of Feminism
- PHL 410 Studies in the History of Philosophy *when offered as Women Philosophers*
- PHL 446 Ethics of Human Reproduction
- REL 260 Women and Religion
- REL 370 Sexual Ethics
- REL 376 Women in Early Christianity
- SPN 484 Studies in Spanish American Literature: *when offered as Latin American Women Writers in the 20th Century*

Women's Studies Minor

- Go to complete description of Women's Studies Minor

A minor in Women's Studies is an excellent complement to majors in many other disciplines. To earn a Women's Studies minor, students must take a minimum of 16 semester credits in designated Women's Studies courses, 8 credits of which must be at the 300/400 level. Courses must be selected from at least three different academic areas, and include at least one humanities course and one social-science course. The Advanced Seminar in Women's Studies (WST 495) is required for the minor in Women's Studies. .

Social Work

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Social Work (BSW)
At-a-Glance

Contact Information: For further information contact the Bachelors of Social Work Program Director: Dr. Christopher Mallett @ (216) 523-7514, E-mail: bsw@csuohio.edu, website www.csuohio.edu/class/socialwork.

Minimum Hours Required for the Major: A student must satisfactorily complete 48 credit hours in core Social Work courses.This does not include the University/College's General Education/Liberal Arts requirements.

Accreditation: The undergraduate Social Work Program is fully accredited by the Commission on Accreditation, Council on Social Work Education. Students matriculating in the program are eligible for student membership in the National Association of Social Workers and the National Association of Black Social Workers. Graduates of the Program are eligible for full professional membership in both organizations.

Social Work Licensure: Students graduating from the Program are eligible to take the Ohio Social Work Licensure Examination (LSW). **Only students graduating from a fully accredited undergraduate program in social work are eligible to take the Ohio Social Work Licensure Examination. The LSW is required to practice social work in most health and human services organizations and agencies. Some public agencies do not presently require the licensure. Individuals who refer to themselves as social workers must hold the LSW and/or LISW.**

Honors Program: The Honors Program in social work is designed to develop a closer identification with social work scholars, practitioners and academicians. Social Work majors during the junior/senior year of study are eligible for this program. In order to qualify, social work majors need a 3.25 cumulative GPA in all courses in the university, and a 3.5 GPA in social work courses.

Study Abroad Program: The Social Work Program has two Study Abroad Programs: (1) Africa Experience in Zimbabwe, see course description SWK 398, and (2) India Experience, see course description and SWK 499.

Student Organizations: There are four student organizations in the School of Social Work. **Social Work in Action (SWA)** is a student-managed organization that provides orientation and opportunities for its members to become involved in community service projects, internal and external to the university. Community participation is in keeping with the historical service tradition of the social work profession. Also, the organization provides students with the opportunity to provide input, by serving on various committees, in the governance of the School of Social Work. Membership in SWA is open to all social work majors. **Delta Zeta Chapter of Phi Alpha, a National Honor Society for Social Work Students. This organization** is open to students majoring in social work with an overall GPA of 3.25. Each year the Delta Zeta Chapter of Phi Alpha awards a scholarship to one of its members with the highest GPA. The student branch of the **National Association of Black Social Workers (NABSW)** takes responsibility for furthering the Chapter's goals in Northeast Ohio. **North American Association of Christians in Social Work (NACSW)** is an

interdenominational and international organization thatemphasizes Christian beliefs, human relationships, responsibilities, and social work practice.

Social Work Mission:Our mission is to prepare and engage students in competent, generalist social work practice that will promote health and human well-being, social and economic justice, and equality within a diverse learning environment. We are committed to generating research and scholarship that promote collaboration with lay and professional communities to ensure an effective quality of life for all people in Northeast Ohio, the State, and internationally.

Graduates of the program are competent generalist social work practioners, who may practice in all fields of social work and/or may pursue higher education.

Major

Admission to the Major

Application to the Social Work major may be submitted by students following their attendance at a School of Social Work orientation. The School conducts orientation sessions each semester that are designed to do the following: provide information about the social work profession, its history, fields of practice, current trends and social issues, the mission of the school; and the admission and curricula requirements for majors. The prerequisites for entering the School of Social Work core curriculum for the major require students to:

- Have a cumulative 2.2 GPA and have completed the following courses: Introduction to Social Work (SWK 200), American Government (PSC 111), and one course in Human Biology. The following courses in Human Biology at Cleveland State University will meet the School of Social Work and the Commission on Accreditation requirements: BIO 100, BIO 102, and BIO 106, as well as SOC 101 and PSY 101. The School of Social Work will consider human biology courses from other colleges and universities that fulfill the above requirement.
- Submit one letter of reference from a teacher/professor, employer, religious leader, social worker, or a health or human services professional. The letter of reference should be written on official letterhead, and the writer should clearly identify her/his relationship to applicant.
- Submit a completed college checklist from the College of Liberal Arts and Social Sciences (CLASS).

Following the orientation and the submission of the application to the major, the student is assigned a faculty adviser.

Advising

Majors are assigned a faculty adviser to individually guide and direct the student to ensure that the optium benefit is gained in the pursuit of the socialwork degree. Pre-major advising is available during regular office hours, Monday through Friday, 9:00 a.m. to 4:00 p.m. A faculty member is available at all times to meet with students to discuss their interest in the major. Students considering the major are encouraged to visit the School of Social Work prior to the regularly scheduled orientation dates. All majors in the program are assigned a faculty adviser to assist in planning their course of study, especially course sequencing, as they progress through the major. Students must maintain regular contact with their advisers.

Major-Field Requirements

1. GPA Requirements for the Major

A Social Work major must maintain a 2.5 cumulative GPA in the Social Work core curriculum and a 2.2 cumulative GPA overall in the university. During the first two years at Cleveland State University, students are encouraged to focus on completing their general education/liberal arts requirements. Transfer students may bring these requirements with them. The social work professional foundation curriculum builds vertically and horizontally on the liberal arts/general education foundation.

The practice sequence courses are restricted to social work majors. All social work majors are required to complete the prescribed curriculum. No course credit is granted by the School of Social Work for life experience. **Additionally, no transfer credit is granted from an institution that does not have an accredited Social Work Program.**

2. Social-Behavioral Sciences Requirements

   In addition to the social-behavioral sciences requirements of the university/college, students majoring in social work are required to complete the following: (a) fifteen (15) credit hours taken in the School of Social Work-approved courses, (b) nine (9) credits in at least three (3) of the following fields must be completed prior to entry to the interventions sequence — anthropology, communication, economics, political science (excluding PSC 111), psychology, and sociology. In completing the requirements in social-behavioral sciences, students may select through advising courses in other related fields.

3. Social Work Core Requirements - Forty-eight (48) Credit Hours
   - SWK 200 Introduction to Social Work - Prerequisite to the major
   - SWK 201 Contemporary Social Welfare - Prerequisite to SWK 300
   - SWK 300 Social Welfare Policy
   - SWK 302 Human Behavior and Social Environment - Micro
   - SWK 303 Human Behavior and Social Environment - Macro
   - SWK 304 Perspectives on Social Work Research I - (Prerequisite to SWK 305)
   - SWK 305 Perspectives on Social Work Research II
   - SWK 350 Basic Generalist Practice - (Prerequisite to SWK 385) *
   - SWK 385 Interventions I **
   - SWK 390 Field Practicum I
   - SWK 395 Field Seminar I

     } Courses must be taken concurrently

   - SWK 485 Interventions II
   - SWK 490 Field Practicum II
   - SWK 495 Field Seminar II

     } Courses must be taken concurrently

   * Students must have completed or be taking concurrently the following Social Work courses prior to SWK 350: SWK 200, SWK 201, SWK 300, SWK 302, SWK 303, and SWK 304.
   ** All the above requirements must be taken prior to SWK 385- Interventions I, with the exception of SWK 305, which can be taken concurrently.

   The completion of a major in Social Work depends upon successful completion of two semesters of student practicum in a professional health or human services agency or organization. . Students are required to obtain a grade of B or better in Interventions I and II, Field Practicum I and II, and Field Seminar I and II. Students receiving less than a B in the aforementioned courses may not proceed in the major without an assessment by the School of Social Work Admissions and Continuance Committee.

4. Elective courses include:
   - SWK 150 The Black Experience and Contemporary Society
   - SWK 240 Administration of Justice
   - SWK 259 The Child, the Family, and the Law

- SWK 340 Legal Aspects of Human Services
- SWK 341 Corrections: Institutional and Community-Based
- SWK 342 Prisoners' Rights
- SWK 351 Social Work in Community Development
- SWK 352 Practice in Health Settings
- SWK 353 Child Welfare Services
- SWK 354 Mental Health
- SWK 355 Asian American Experience
- SWK 356 AIDS and Intervention
- SWK 357 Social Work Values and Ethics
- SWK 360 Alcoholism
- SWK 371 Constitutional Criminal Procedure
- SWK 372 Substance Abuse in Society
- SWK 373 Social Work Honors Seminar
- SWK 374 Law Enforcement in Society
- SWK 375 Criminal Law
- SWK 380 Special Topics in Social Work
- SWK 396 Readings in Social Work
- SWK 398 Africa Experience in Zimbabwe
- SWK 465 Aging and Social Work
- SWK 470 Problems and Issues in Criminal Justice
- SWK 475 Alternative Health Systems
- SWK 493 Special Topics in Social Welfare
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College of Sciences and Health Professions

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- Go to College of Sciences and Health Professionswebsite

Introduction

College website: http://www.csuohio.edu/sciences/index.html

Studies in the College of Sciences and Health Professions will prepare individuals to meet challenges throughout their lifetime. The college encompasses a wide spectrum of fields in the sciences, mathematics, and the health professions. By completing course work in a major field of interest, as well as in a variety of other subject areas, students acquire the analytical, communication, and problem-solving skills vital to critical thinking. Furthermore, students are exposed to diverse points of view and academic disciplines. These can help form values and outlooks conducive to a meaningful life, a rewarding career, and learning and intellectual growth in the future.

Academic Philosophy

In the College of Sciences and Health Professions, degree programs are designed to prepare students thoroughly for careers in a variety of scientific and health related disciplines. Each degree has its own set of required course work in addition to the General Education Requirements. Students are encouraged to seek advising from both a professional adviser in the College of Sciences and Health Professions Advising Center as well as a faculty adviser within their academic department. First-year students and sophomores are especially encouraged to seek information from advisers in each area in order to assure that degree requirements can be met in a timely manner.

Classroom instruction, laboratory experience, field placements, clinical supervision, and major/career advising duties within the College of Sciences and Health Professions are assumed by more than 100 full-time faculty members who comprise the college. Students are assured a high-quality educational experience while working with a distinguished faculty that is interested in, and committed to, helping students achieve their educational and career goals.

College of Sciences and Health Professions

Academic Procedures

- Advising
- Declaring a Major
- Evening Majors

Advising

General Education Advising – All students are strongly encouraged to consult with an adviser early and often in their academic career. Advising related to the General Education Requirements is available at the College of Sciences and Health Professions Advising Center (MC 218B, 216-687-9321). The Advising Center staff provides a wide range of services including information on college and university graduation requirements, information on academic regulations, evaluation of transfer credit, assistance in planning a course schedule and help in preparing student petitions. Additional useful advising information may be found on the Advising Center website.

Major-Field Advising – Major programs differ in the number and nature of credit hours required. Students should consider their own interests, aptitudes, and professional aspirations in selecting a major. Also, students should pay close attention to university, college, and major-field requirements and plan a schedule to ensure that they do not unnecessarily extend the period of time it takes to complete a degree. Students are expected to consult with faculty advisers within academic departments to discuss the course requirements within a particular major. A list of advising contacts for each department may be found on the Advising Center website.

Declaring a Major

Any student in good academic standing is eligible to declare a major in the College of Sciences and Health Professions. All students should declare a major as soon as possible after admission to the university and must declare a major by the end of their second year (or before the completion of 60 credit hours). By declaring a major early, students will have more opportunities to work with faculty members and to participate in the research or creative activities of their academic department. Students who declare a major are also able to take advantage of the Degree Audit feature in CampusNet, which provides a preliminary evaluation of a student's progress toward a degree.

To declare or change a major (or minor), please contact the College of Sciences and Health Professions Advising Center. Through CampusNet, students may also use the "Ask a Question" feature in Degree Audit to initiate the declaration or change of major process.

Evening Majors

The College of Sciences and Health Professions offers all programs in the daytime. Several departments also offer courses for evening students to complete a major, including: Biology, Chemistry, Physics, and Psychology. Additionally, most other departments also offer evening courses, although these departments do not offer all the courses required for a major. Requirements for these majors, which are the same as those of the daytime majors, can be found under the heading of each individual department. A student should consult with the major-field adviser to determine the pattern and frequency of offerings of evening courses. In addition, regular meetings with the adviser should be held to discuss course selections, prepare a timetable for completing degree requirements, and receive advising on educational and career goals.

College of Sciences and Health Professions

Academic Policies

- Earning an Additional Degree
- Earning a Second Major
- Special Course Prerequisites
- Student Responsibilities

Earning an Additional Degree

Students who already hold a bachelor's degree, either from Cleveland State University or from another institution, and are interested in pursuing an additional degree are subject to the policies regarding post-baccalaureate students.

Students pursuing both a Bachelor of Science and a Bachelor of Arts curriculum simultaneously are considered to be earning two baccalaureate degrees. A student who wants to earn two degrees must meet all requirements of the university, college(s), and department(s) for both degrees. A student must be admitted into both colleges and must meet all of the requirements and follow all of the regulations of each college. The student may receive both degrees by listing both on their graduation application (if each degree originates from the same college), or by filing one graduation application for each degree (if the degrees originate from separate colleges).

A student may not earn the same baccalaureate degree twice; e.g., two B.A. degrees with different major fields (see Earning a Second Major.). Also, a student majoring in Geological Sciences, Mathematics, or Physics cannot be awarded both the B.A. and B.S. degrees in these fields.

Earning a Second Major

Students may elect to complete the requirements for two major fields, provided that both majors lead to a Bachelor of Arts, or that both majors lead to a Bachelor of Science degree.

In order to have both majors recorded on the transcript, they must be listed on the student's Graduation Application. Only one baccalaureate degree will be conferred.

Students who wish to pursue a major leading to a Bachelor of Arts degree, as well as a major leading to a Bachelor of Science degree, should refer to the above section regarding earning an additional degree (see Earning a Second Degree).

Special Course Prerequisites

Courses at the 300- and 400-level in the College of Sciences and Health Professions may not be taken by first-year students except with the permission of the course instructor.

Undergraduate students may be granted permission to take one or more (maximum of nine credit hours) graduate courses, at the 500 level only, if all of the following conditions are met:

The student must

1. be within 30 semester credit hours of graduation
2. maintain an overall grade-point average of 2.75 or better through the preceding semester

3. have a minimum grade-point average of 3.0 in the major field of study
4. submit, at the time of registration, a completed Permission for an Undergraduate Student to Take a Graduate Course form (i.e. must obtain permission from his or her adviser, the instructor of the course, and the department chair).

Postgraduate students should discuss the requirements for taking a graduate course with the College of Graduate Studies.

Student Responsibilities

Each student is solely responsible for meeting all curricular requirements and for knowing and following all academic regulations and policies of the College of Sciences and Health Professions, the university, and the major-field department. Students are urged to review all appropriate sections of this catalog, in particular the chapter on University Regulations as well as the chapters on Academic Procedures and Academic Policies for the College of Sciences and Health Professions.

Petitions for a waiver of a requirement or for an exception to a regulation (either for the college or university) can be obtained from the College of Sciences and Health Professions Advising Office (MC 218B, 216-687-9321).

Although students must assume responsibility for knowing and fulfilling graduation requirements and for knowing and following policies and regulations, advisers are available to assist them. Whenever in doubt, a student should consult with an academic adviser for assistance.

College of Sciences and Health Professions

General Requirements

- Introduction
- Foreign Language or Foreign Culture
- Other
    - Total Minimum Number of Semester Hours
    - Upper-Division
    - Introduction to University Life

Introduction

The faculty of the College of Sciences and Health Professions awards its degrees to students who meet the following general requirements:

- *Successful completion of a minimum of 128 semester credit hours, of which 42 semester credit hours must be earned in 300- and/or 400-level courses. Credit toward the degree must be earned in courses acceptable to the departments and curricula of the College of Sciences and Health Professions, which includes those courses included in official articulation agreements and other courses taken through accredited institutions.*
- Fulfillment of all of the General Education Requirements of the university and a minimum cumulative grade-point average of 2.00 as set forth in the section on University Regulations. Students must also achieve a minimum cumulative grade-point average of 2.00 in a major program in the College of Sciences and Health Professions. (Note: A minimum grade-point average higher than 2.00 may be required by a department. Students must meet the requirements as specified by their major department.)

Foreign Language or Foreign Culture Requirement

The College of Sciences and Health Professions requires all students who graduated from high school in 1987 or later to have completed two years of a foreign language in high school (with passing grades). Students who did not complete the courses in high school are considered deficient in foreign language and must successfully complete a first-year foreign language sequence, or successfully complete two semesters of American Sign Language and one approved foreign culture course (*see list*). The deficiency must be corrected prior to the completion of 60 credits at Cleveland State. Transfer students should promptly submit a high school transcript to Cleveland State to verify that the foreign language deficiency has been fulfilled.

Other Requirements

Total Minimum Number of Semester Credit Hours Required: All students must successfully complete a minimum of 128 academic semester credit hours. However, some degree programs may require more than the college minimum. Students must comply with the requirements of their major program.

Upper-Division Requirement: All students must successfully complete a minimum of 42 semester credit hours at the 300- and/or 400-level. Some degree programs, however, may require more than the college minimum.

Introduction to University Life: This one-credit course must be successfully completed by all newly admitted first year students; it is not required for transfer students. It is highly recommended that this course be taken during the first semester of enrollment.

College of Sciences and Health Professions

- Special Educational OpportunitiesAccelerated 4+1 Programs
- Choose Ohio 1st Scholarship Programs
- Co-ops and Internships
- Credit by Examination
- Cuyahoga Community College (Tri-C) Partnership Program
- eLearning Courses
- Health Sciences Articulation Agreements with Cuyahoga Community College (Tri-C) and Lakeland Community College (LCC)
- Independent Study/ ResearchMcNair Scholars Program
- Off-Campus Course Offerings Podiatric Medicine Partnership with the Ohio College of Podiatric Medicine (OCPM)
- Pre-Medicine/MD Partnership with the Northeastern Ohio Universities College of Medicine (NEOUCOM)
- Pre-Pharmacy/PharmD Partnership with the Northeastern Ohio Universities College of Pharmacy (NEOUCOP)
- Pre-Professional Preparation Programs
- Psychology Partnership Programs at Lakeland Community College (LCC) and Lorain County Community College (LCCC)
- Post Secondary Enrollment Options Program (PSEOP)
- Secondary Teacher Licensure
- Study Abroad

Accelerated 4+1 Programs

High-achieving undergraduates in select College of Sciences and Health Professions programs have the opportunity to earn a Master's degree with one extra year of study. 4+1 programs are available for the Bachelor of Science/Master of Science in Biology; Bachelor of Science/Master of Science in Chemistry; Bachelor of Science/Master of Science in Health Sciences; Bachelor of Science/Master of Science OR Bachelor of Arts/Master of Science in Mathematics; Bachelor of Science/Master of Science in Physics; and the Bachelor of Arts/Master of Arts in Psychology. Students must meet eligibility criteria set by the academic department. Interested students should contact their faculty adviser.

Choose Ohio 1st Scholarship Programs

Choose Ohio 1st scholarships are competitive scholarships available to Cleveland State students who plan to pursue a major in one of the STEM (Science, Technology, Engineering, or Mathematics) disciplines. As part of the scholarship, all Choose Ohio 1st Scholars will engage in research, internships and entrepreneurial experiences in Northeast Ohio's growing health science and biomedical community. In addition, the program will offer networking opportunities with peers, mentors and employers. For more information including application deadlines, please visit the Scholarships & Awards section of the College of Sciences and Health Professions website.

Co-ops and Internships

Co-op and internship opportunities are available for many of the College of Sciences and Health Professions programs, placing students in actual work settings that may be related to a student's educational and career interests. Knowledge and skills learned in the classroom setting are often applied in these co-op and internship experiences. Likewise, the experience gained in hands-on activities may be brought back into the classroom and complement the academic component of course work. Contact the Career Services Center at 216-687-2233 for information on co-ops. Contact both the Career Services Center and the chairperson of the appropriate academic department for information on internships.

Credit by Examination

Departments within the College of Sciences and Health Professions may accept credit by examination for specific courses. The subject material to be covered, the method of examination, the minimal acceptable score/grade for passing, and the number of semester credit hours to be granted will be determined by the academic departments. Contact the faculty adviser for further information. Credit may also be earned through CLEP examinations, administered through the Department of Counseling and Testing.

Cuyahoga Community College (Tri-C) Partnership Program

The Partnership Program provides students an opportunity to seamlessly continue their education from an associate's to a bachelor's degree. Students who intend to obtain an associate's degree at Cuyahoga Community College and then move into a bachelor's degree at Cleveland State University are dually admitted to both institutions, thereby allowing partnership students access to the services of both institutions simultaneously. For more information, contact the Office of Admissions.

eLearning Courses

The College of Sciences and Health Professions offers some of its courses as eLearning courses, meaning that they are offered online or via interactive video distance learning (IVDL). There are two categories of online courses: those that can be completed entirely online (referred to as online courses) and those that have some on-campus component to them (referred to as blended courses). These courses are listed on CampusNet and are designated by "e". All courses delivered in such a manner are part of the college's regular course offerings and will fulfill the appropriate university, college, or major-field requirement.

Health Sciences Articulation Agreements with Cuyahoga Community College (Tri-C) and Lakeland Community College (LCC)

The College of Sciences and Health Professions has articulation agreements with Cuyahoga Community College and Lakeland Community College for those students who have completed or have been accepted to and intend to complete an associate degree in one of the eligibile allied health programs. The articulation agreements enable the associate-degree holder to complete the degree of Bachelor of Science in Health Sciences in two years of additional full-time study beyond the associate degree, and will facilitate the transfer of credits from the associate degree to the baccalaureate degree. Interested Cuyahoga or Lakeland Community College students should contact their counselor/adviser or the College of Sciences and Health Professions Advising Center at 216-687-9321. Cuyahoga Community College students who have not yet completed their associate degree are also encouraged to participate in the Cuyahoga Community College (Tri-C) Partnership Program.

Independent Study/Research

Most departments of the College of Sciences and Health Professions offer credit for independent study conducted under the supervision of a member of the college's faculty. A student should contact the faculty adviser or a specific faculty member to inquire about independent study/research.

Independent study/research is arranged with a specific professor who will determine the quantity and quality of work expected and semester credit hours to be granted. In general, an independent study is intended for scholarly work not included in a department's formal course offerings, and should be offered only when a formal course is not available.

Although neither the university nor the College of Sciences and Health Professions has a limit on the number of independent study courses that may be applied toward graduation, individual academic departments can limit the number that may be applied toward the major and/or minor.

McNair Scholars Program

The goal of the CSU McNair Scholars Program is to prepare talented and eligible undergraduates for doctoral studies through involvement in research, seminars, advising, preparation for the Graduate Record Examination, and other intensive scholarly activities. Students who participate in the program come from disadvantaged backgrounds, show strong academic potential in STEM (**S**cience, **T**echnology, **E**ngineering or **M**athematics) disciplines, and are committed to pursuing the Ph.D. degree. The program is named after the late Dr. Ronald E. McNair, an African American physicist and NASA astronaut, who died in the Challenger explosion in 1986. This program is sponsored by the U.S. Department of Education.

Off-Campus Course Offerings

Depending upon course offerings, students may have the opportunity to complete course work toward the General Education Requirements or even the major field of study through courses offered at a variety of off-campus locations such as CSU's West Center (Westlake). The locations of courses are noted in CampusNet. All courses delivered in such a manner are part of the college's regular course offerings and will fulfill the appropriate university, college, or major-field requirement.

Podiatric Medicine Partnership with the Ohio College of Podiatric Medicine (OCPM)

This program consists of 3 years of pre-professional study at CSU and 4 years of study (for qualified students) at the Ohio College of Podiatric Medicine (OCPM). Students who successfully complete the seven-year program will receive a Doctor of Podiatric Medicine degree. Students may also apply for a B.S. in Biology or Health Sciences upon completion of required course work during their first year of study at OCPM. Additional details and contact information may be found at the Department of Biological, Geological and Environmental Sciences and the School of Health Sciences websites.

Pre-Medicine/MD Partnership with the Northeastern Ohio Universities College of Medicine (NEOUCOM)

Undergraduate and post baccalaureate students interested in pursuing medical education in Northeast Ohio can take advantage of the CSU/NEOUCOM MD Partnership.

Pre-Pharmacy/PharmD Partnership with the Northeastern Ohio Universities College of Pharmacy (NEOUCOP)

Cleveland State is a member of the Northeastern Ohio Universities College of Pharmacy (NEOUCOP) consortium. As a member institution, Cleveland State students enjoy preferential admissions to the Doctor of Pharmacy program, with NEOUCOP annually reserving a set number of seats for qualified Cleveland State students. For the purposes of this program, a Cleveland State student is defined as a student who has accumulated a minimum of 30 semester credit hours at Cleveland State.

Students interested in this program take a recommended sequence of undergraduate pre-pharmacy courses that is designed to fulfill the prerequisites set by NEOUCOP. This pre-pharmacy curriculum will also meet the prerequisite requirements of most other Doctor of Pharmacy programs. Cleveland State students apply to the NEOUCOP Doctor of Pharmacy program approximately one year in advance of when they intend to begin study at NEOUCOP. Admission to the NEOUCOP program is competitive and is not guaranteed. Cleveland State, however, does have an annual allotment of seats in the Doctor of Pharmacy program, reserved for those students who are highly qualified based on the NEOUCOP admission criteria and apply early (prior to October). The pre-pharmacy program is administered by the Department of Chemistry. Additional details and contact information may be found on the College of Sciences and Health Professions website.

Pre-Professional Preparation Programs

Cleveland State University offers comprehensive programs providing the courses required for application to schools of medicine, pharmacy, dentistry, or veterinary medicine. The programs prepare students by prescribing the courses required for admissions consideration and for preparation for the required admissions tests in these fields. Although they are not considered degree-granting programs, students can add a "Pre-Medicine", "Pre-Pharmacy", "Pre-Dentistry", or "Pre-Veterinary" designation to their academic record to denote their intent to pursue admission to a professional school.

Students who already hold a bachelor's degree but lack the minimal science requirements for the various kinds of professional schools have the opportunity to participate in this preparation program as post-baccalaureate students.

A website with additional information for *pre-professional students* is also available.

Psychology Partnership Programs at Lakeland Community College (LCC) and Lorain County Community College (LCCC)

Psychology courses leading to a B.A. degree in Psychology are offered at the Lorain County Community College and Lakeland Community College campuses. These agreements allow students admitted to the program to complete the psychology degree through a combination of courses offered on-line and on each community college campus (although partnership students can elect to take courses on the Cleveland State downtown campus as well). Students are also able to receive advising from a Cleveland State adviser at either the Lorain or Lakeland campus.

Post Secondary Enrollment Options Program (PSEOP)

PSEOP permits qualified high-school students to take college-level courses at Cleveland State. See the PSEOP website for more details.

Secondary Teacher Licensure

Students seeking secondary teacher licensure in a science/math field earn their degree from the College of Sciences and Health Professions. Students complete coursework in both the College of Sciences and Health Professions and the College of Education and Human Services. Secondary teacher licensure can be obtained in the fields of biology, chemistry, earth science (geology), physics, and mathematics. In addition to a College of Sciences and Health Professions General Education adviser, students have a faculty adviser for science/math courses in the department of their field of concentration and an adviser for education courses in the College of Education and Human Services. College of Sciences and Health Professions majors electing to pursue secondary teacher licensure are encouraged to promptly declare an Education minor, and to inquire about the CSUteach program.

Study Abroad

Study-abroad opportunities are available through various departments and programs within the College of Sciences and Health Professions and are coordinated by the Center for International Services and Programs (216-687-3910). The coordinator of the center can assist with financial-aid arrangements, recommend appropriate programs (generally those affiliated with American universities from which credit is transferable) and assist with arrangements. Students who wish to earn credits abroad must consult with and work through the coordinator. Approved courses taken as part of the study-abroad experience may, where appropriate and approved by the academic unit, apply toward university, college, and/or major-field requirements. The option of taking approved courses for graded credits and having these grades count in a student's grade-point average is also available. A guide to study-abroad opportunities is available from the Coordinator of the Center for International Services and Programs.

College of Sciences and Health Professions

Major Programs Leading to a Bachelor's Degree

- **Bachelor of Science**, including major programs offered during the day in the following fields:
  - Biology
    B.S. Tracks: General, Pre-Professional Studies, Honors, and Secondary Teacher Licensure
    (evening degree is available in all tracks except Secondary Teacher Licensure)
    - Certificate: Biotechnology
  - Biology - Medical Technology
  - Biology (B.S.)/Podiatric Medicine (Doctorate) *with Ohio College of Podiatric Medicine*
  - Chemistry
    B.S. Tracks: American Chemical Society (ACS) Certified *(evening degree also available)*, Pre-Professional Studies (including a concentration in Pharmaceutical Sciences), Honors, and Secondary Teacher Licensure
    - Certificate: Forensic Chemistry; Science and Technology Entrepreneurship
  - Environmental Science
    B.S. Tracks: Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Planning, and Environmental Technology
  - Geological Sciences
    B.S. Tracks: General and Secondary Teacher Licensure
  - Health Sciences
    B.S. Tracks: General Interest, Associate Degree/Bachelor of Science Completion, Pre-Physician Assistant, Pre-Therapy (Physical Therapy or Occupational Therapy), Pre-Podiatry, and Honors
    - Certificates: Gerontological Studies; Culture, Communication, and Health (joint certificate with College of Liberal Arts and Social Sciences
  - Health Sciences (B.S.)/Podiatric Medicine (Doctorate) *with Ohio College of Podiatric Medicine*
  - Mathematics
    B.S. Tracks: General, Actuarial, Applied Mathematics, Pure Mathematics, Statistics, Mathematics/Computer Science (double major), and Secondary Teacher Licensure
  - Pharmaceutical Science

    B.S. Tracks: Pharmaceutical Chemistry and Analysis, Medicinal and Biological Chemistry, and Pharmacy Administration

  - Physics *(evening degree also available)*
    B.S. Tracks: General, Honors and Secondary Teacher Licensure
- **Bachelor of Arts**, including major programs offered during the day in the following fields:
  - Geological Sciences

  - Mathematics
    B.A. Tracks: General, Actuarial, Applied Mathematics, Pure Mathematics, Statistics, and Secondary Teacher Licensure
  - Physics *(evening degree also available)*

  - Psychology (*evening degree also available)*
    B.A. Tracks: General and Honors
  - Speech and Hearing

Biology

On this page:

- Back to Science College Degree Listing
- At-a-Glance
- Major-Field Requirements - B.S. in Biology
    - Pre-Professional Studies
    - Honors Program
- B.S. in Biology - Medical Technology Program
- B.S. in Biology/Doctorate of Podiatric Medicine
- Secondary Teacher Licensure
- Certificate Program: Biotechnology
- Minor
- BIO Courses
- Go to Biology, Geology, and Environmental Science website

Biology (B.S.)
At-a-Glance

Admission to the major: Grade of C or better in BIO 202 and good academic standing in the College of Science

Minimum hours required for major: 72

Minimum hours required for minor: 16

Special programs: Honors program, Pre-Professional program (medicine, dentistry, veterinary science), B.S. Biology - Medical Technology program, B.S. Biology - Doctorate of Podiatric Medicine (with the Ohio College of Podiatric Medicine), 4+1 B.S./M.S., Secondary Teacher Licensure program, and the Biotechnology Certificate program

Additional information: The Doretta Thielker Award is presented annually to outstanding graduating biology major(s)

Student Organizations: American Medical School Association / CSU Chapter, the Biology, Geology, Environmental Science Student Association; the Student Environmental Movement.

Advising for Biology majors: Biology and Medical Technology majors must discuss their program of study with the undergraduate adviser for Biology prior to registration each semester. Contact the Biology office at 216-687-2440 or bges@csuohio.edu to schedule an advising appointment.

Transfer students intending to major in Biology: Transfer students intending to major in Biology must meet, prior to registering for courses, with the undergraduate adviser for biology for evaluation of their transferred science courses. Contact the Biology office at 216-687-2440 or bges@csuohio.edu to schedule an advising appointment.

Required Grade-Point Average: To qualify for graduation, all Biology majors must have a cumulative GPA of not less than 2.00 across all CSU biology courses used to fulfill the major-field requirements. This is in addition to the university requirement of a cumulative GPA of not less than 2.00. Check the University Regulations section of this catalog to determine how a GPA is calculated.

Suggested Freshman Program: To minimize the time needed to complete the major-field requirements, academically proficient students are advised to complete the Introductory Biology (BIO 200/201 and 202/203) and the General Chemistry (CHM 261/266 and 262/267) sequences in their first year.

Description of program: The Department of Biological, Geological and Environmental Sciences (BGES) offers a comprehensive program providing the education and training necessary for careers in modern biological science, including the background for admission to graduate schools and to professional schools (medicine, dentistry, veterinary science). The Biology major provides a solid foundation in fundamental areas of biology while permitting sufficient choice in course selection that majors may explore and develop areas of interest within the field. Degrees offered include a B.S. in Biology (general , pre-professional studies, and honors tracks), a B.S. Biology – Medical Technology (with an affiliated school of medical technology), and a B.S. Biology/Doctorate of Podiatric Medicine (3+4 program with the Ohio College of Podiatric Medicine). A Secondary Teacher Licensure program, a Biotechnology certificate, and a Biology minor are also available.

Major-Field Requirements

Bachelor of Science (General Requirements)

Biology Core Courses (25 credit hours)

- BIO 200/201 Introductory Biology I and Laboratory
- BIO 202/203 Introductory Biology II and Laboratory
- Two of the following three courses*:
    - BIO 300/301 Plant Biology and Laboratory
    - BIO 302/303 Animal Biology and Laboratory
    - BIO 304/305 Population Biology and Evolution, and Laboratory
- Two of the following three courses*:
    - BIO 306 Biochemistry and Molecular Biology
    - BIO 308/309 Cell Biology and Laboratory
    - BIO 310/311 Genetics and Recitation
- BIO 495 or 492 Seminar (Capstone)
- BIO 499 Exit Evaluation
- University GenEd requirements include a WAC in the major; BIO 390 serves this purpose.

Biology Electives (at least 19 credit hours)

- *BIO courses numbered 300 to 311 and not used as biology core courses can be used as biology electives. *Return to Biology Core*
- Both BIO 390 and BIO 391 may be used once as a biology elective course.
- Select from all biology courses numbered 401 to 497, with three restrictions:
    1. Only one course numbered 402 to 497 that does not have a 300-level course as a prerequisite may be used as a biology elective;
    2. A maximum of 8 credits of the following courses may be used as biology electives: BIO 496 and BIO 497.
    3. BIO 495 and 492 do not count as electives the first time taken.
- A maximum of nine credits from the following list of courses may be used as Biology electives. EVS 454, EVS 455; HSC 381, 422; 475, and 476 (students may not use both HSC 476 and BIO 426 as electives); CHM 332 /337 or 338; CHM 341; CHM 342; CHM 351; CHM 352; CHM 403; CHE 366; MTH 493; PHY 415
- EVS 490, 493, 494 may be used as biology electives with permission of the biology adviser.
- Check with the biology adviser (216-687-2440) for other courses that may be used as biology electives.

Chemistry Courses (16 credit hours)

- CHM 261/266 General Chemistry I and Laboratory
- CHM 262/267 (or 278) General Chemistry II and Laboratory
- CHM 331/336 Organic Chemistry I and Laboratory

Mathematics or Statistics Course (four credit hours)

One of the following courses:

- MTH 181 Calculus I
- MTH 147 Statistical Concepts
- ANT 305 Quantitative Anthropology
- PSY 311 Behavioral Science Statistics
- SOC 354 Quantitative Sociological Research

Physics Courses (8 credit hours)

- PHY 231 College Physics I – Biomedical Applications
- PHY 232 College Physics II – Biomedical Applications
- PHY 221 and 222 College Physics I and II or PHY 241 and 242 University Physics I and II may be substituted

Specific Tracks in the Bachelor of Science Program:

Pre-Professional Studies

The curriculum for the Biology major provides students with the knowledge to take the aptitude tests required for admission by most professional schools. A suggested program of study for premedical students might consist of the following courses:

All the specified courses (biology, chemistry, mathematics, and physics) for the B.S. in Biology, including BIO 306 and BIO 308/309.

Suggested Biology Electives:

- BIO 310/311 Genetics and Recitation
- BIO 412/413 Elements of Immunology and Laboratory
- BIO 416/417 Microbiology and Laboratory
- BIO 418/419 Histology
- BIO 424 /425 3 Mammalian Principles of Animal Physiology and Laboratory
- BIO 422/423 Mammalian Physiology and Laboratory
- BIO 428 Endocrinology

Additional course required by medical schools:

- CHM 332/337 (or 338) Organic Chemistry II and Laboratory

Suggested Additional Courses:

- Economics - one course
- Psychology - one course

The COSHP pre-professional adviser coordinates a seminar program for all students at which representatives from professional schools (medical, dental, veterinary, etc.) discuss their program's admission requirements and procedures. Contact the COSHP pre-professional adviser at 216-687-9321 for an advising appointment and check the Pre-Professional Programs website (http://www.csuohio.edu/sciences/preprof/index.html) for the seminar schedule.

A **Post-baccalaureate Program** is available to individuals with a bachelor's degree who lack the minimal science requirements for graduate or professional schools. Pre-professional applicants should contact the COSHP advising center at 216-687-9321; applicants interested in graduate study in one of the BGES programs should contact the BGES graduate program director 216-687-2440.

Honors Program

Biology majors with junior or senior standing, who have grade-point averages of at least 3.00 overall and at least 3.20 in courses required for the Biology major, are encouraged to apply for admission to the Honors Program. The Honors Program requires a minimum of 8 credit hours of honors research and seminar, and a successful oral defense of the written thesis. Honors Program course credits count as Biology Elective credits.

Honors students will undertake three or four credits of research (BIO 490) in a supervising faculty member's laboratory on a project approved by the faculty member and by the Honors Program Committee. A written report on the research project must be defended before a three-person faculty review committee (BIO 491). Honors Seminar (BIO 492) must be taken twice, and an oral report on the project must be given as a research seminar when the student takes BIO 492 for the second time. Honors students do not take BIO 495. To remain in the program the student must sustain the grade-point averages required for admission to the program, as well as the approval of the faculty member supervising the student's honors research.

Upon successful completion of the honors program, the student will receive a certificate from the department, and a recommendation to the university for graduation with honors in Biology. For further information, contact the Biology office at 216-687-2440 or bges@csuohio.edu.

B.S. Biology - Medical Technology

The Department of Biological, Geological and Environmental Sciences offers a program in medical technology that leads to a B.S. degree with a major in Biology. Students interested in the Medical Technology Program should contact the undergraduate adviser for biology at 216-687-2440 or bges@csuohio.edu. Students enrolling in the Medical Technology Program have two options available to them.

Option I (3 + 1)

Option I consists of three years of study at Cleveland State University followed by one year of clinical laboratory training in an affiliated school of medical technology. Students do not enroll at Cleveland State University during their year of clinical training, they enroll at the school of medical technology (note – this means that students are not eligible for financial aid from Cleveland State during this clinical year). After completion of the clinical training, 32 semester credits are transferred from the school of medical technology to Cleveland State University and are counted toward the B.S. degree. The letter grades earned during the internship appear on the student's records, but are not included in the computation of the grade-point average. Students enrolling in Option I must complete the following courses:

Biology Courses (38 credit hours)

- BIO 200/201 Introductory Biology I and Laboratory
- BIO 266/267 Human Anatomy and Physiology I

- BIO 268/269 Human Anatomy and Physiology II
- BIO 306 Biochemistry and Molecular Biology
- BIO 308/309 Cell Biology and Laboratory
- BIO 310/311 Genetics and Recitation
- BIO 400 Medical Technology Orientation
- BIO 412/413 Elements of Immunology and Laboratory
- BIO 414/415 Parasitology and Laboratory
- BIO 416/417 Microbiology and Laboratory
- BIO 499 Exit Evaluation

Mathematics and Physical Science Courses (20 credit hours)

- CHM 261/266 General Chemistry I and Laboratory
- CHM 262/267 (or 278) General Chemistry II and Laboratory
- CHM 331/336 Organic Chemistry I and Laboratory
- one of the following statistics courses:
    - MTH 147 Statistical Concepts
    - ANT 305 Quantitative Anthropology
    - PSY 311 Behavioral Science Statistics
    - SOC 354 Quantitative Sociological Research

Option II (4 + 1).

Option II consists of the successful completion of the B.S. degree with a major in Medical Technology prior to enrolling in an approved school of medical technology. This option is recommended for students who desire flexibility in training program choice, and increased options for career choice and career development. Students enrolling in Option II must complete the following courses:

- All Option I courses plus
- BIO 202/203 Introductory Biology II and Laboratory
- CHM 310/315 Survey of Analytical Chemistry
- PHY 231 College Physics I – Biomedical Applications ; (PHY 221 College Physics I or PHY 241 University Physics may be substituted)
- BIO 495 Seminar (Capstone)

Regardless of the route and option selected, students subsequently must be accepted into a school of medical technology approved by the Council on Medical Education of the American Medical Association in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences as part of the requirement for taking the certifying examination in medical technology. In the Cleveland area, there is one approved and active hospital school of medical technology affiliated with Cleveland State University. However, students completing the 4 + 1 option may attend any approved school of medical technology in the United States. Following satisfactory completion of their clinical training program, students are eligible to take the national certifying examination of the Registry of Medical Technologists (American Society of Clinical **Pathologists**) or of the National Certification Agency for Medical Laboratory Personnel.

B.S. Biology/ Doctorate of Podiatric Medicine (3+4 program with the Ohio College of Podiatric Medicine)

The Department of Biological, Geological, and Environmental Sciences (BGES) offers a joint 3 + 4 program with the Ohio College of Podiatric Medicine (OCPM). The program provides the education and training that will allow a Biology major to take three years of classes at CSU in preparation for admission to OCPM for the four-year Doctor of Podiatric Medicine (DPM) degree program. Particular courses taken at OCPM in the first year will transfer to CSU and apply to the completion of the Bachelor of Science degree in Biology from CSU. Thus,

a student will receive a four-year B.S. degree from CSU, and three years later (if successful), a Doctor of Podiatric Medicine from OCPM. All other normal regulations for both the Biology major and the Doctor of Podiatric Medicine remain unchanged. Biology majors should discuss this degree option with the undergraduate adviser for Biology.

Admission to OCPM:
If a student enters CSU with a high school GPA of at least 3.75, and either an ACT score of at least 29 or a SAT score of at least 1270, and if the student maintains a cumulative GPA of at least 3.2, then the student automatically will continue into the OCPM curriculum after three years at CSU and completion of the following 92-96 semester credit hours of CSU coursework:

- 8 credit hours of General Biology & Lab
- 8 credit hours of General Chemistry & Lab
- 8 credit hours of Organic Chemistry & Lab
- 8 credit hours of Physics & Lab
- 6 credit hours of English
- 52-56 credit hours of General Core / Elective courses.

If a student enters CSU with a high school GPA of less than 3.75, or has standardized test scores below the limits given above, or if the student does not maintain a cumulative GPA of at least 3.2, then the student will enter the regular applicant pool for admission to OCPM. Such students must complete either the Medical College Admission Test (MCAT) and must have completed or be nearing completion of the 92-96 credit hours of CSU coursework as listed above.

Suggested Three-Year Program at CSU

Fall Semester, Year 1			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
CHM 261 General Chemistry I	4	BIO major	4 of 8 General Chemistry
CHM 266 General Chemistry Lab I	1	BIO major	
BIO 200 Introductory Biology I	3	BIO major	3 of 8 Biology
BIO 201 Introductory Biology Lab I	1	BIO major	4 of 8 Biology
ENG 101 English I	3	English Composition	3 of 6 English
ASC 101 Freshman Orientation	1	Freshman Orientation	N/A
Semester Total	**13**		
Spring Semester, Year 1			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
CHM 262 General Chemistry II	4	BIO major	8 of 8 General Chemistry
CHM 267 General Chemistry Lab II	1	BIO major	N/A
BIO 202 Introductory Biology II	3	BIO major	8 of 8 Biology
BIO 203 Introductory Biology Lab II	1	BIO major	8 of 8 Biology

ENG 102 English II	3	English Composition	6 of 6 English
General Education Elective	3 - 4	Non-U.S. or AALAME Arts & Humanities / Writing	N/A
Semester Total	**15 - 16**		
Fall Semester, Year 2			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
CHM 331 Organic Chemistry I	4	BIO major	4 of 8 Organic Chemistry
CHM 336 Organic Chemistry Lab I	2	BIO major	N/A
BIO 302/303 Animal Biology & Lab	4	BIO major [1 of 4 required 300-level courses]	N/A
MTH 147 Statistical Concepts OR MTH 181 Calculus I	4	BIO major and Mathematics	N/A
General Education Elective	3 - 4	Human Diversity (suggested: HSC 305 Culture and Health)	N/A
Semester Total	**17 - 18**		
Spring Semester, Year 2			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
CHM 332 Organic Chemistry II	4	N/A	8 of 8 Organic Chemistry
CHM 337 Organic Chemistry Lab. II or an elective	2	N/A	N/A
MTH 182 Calculus II OR MTH 347 Applied Statistics	4	Mathematics	N/A
BIO 310/311 Genetics & Recitation	4	BIO major [2 of 4 required 300-level courses]	
General Education Elective	3 - 4	African American Experience	N/A
Semester Total	**17 - 18**		
Fall Semester, Year 3			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
BIO 495 Seminar	1	BIO major & Capstone	N/A
BIO 308/309 Cell Biology & Lab	4	BIO major [3 of 4 required 300-level courses]	N/A
PHY 221 College Physics I	5	BIO major	5 of 8 Physics
General Education Elective	3 - 4	Social Sciences / Writing Across the Curriculum	
Open Elective	3 - 4	Writing Across the Curriculum	

Semester Total	**16 - 18**		
Spring Semester, Year 3			
Course	**Credits**	**CSU requirement**	**OCPM prerequisite credits**
PHY 222 College Physics II	5	BIO major	10 of 8 Physics
General Education Elective	3	Arts & Humanities (suggested: PHL 240 Health Care Ethics)	N/A
General Education Elective	3- 4	Non-U.S. or AALAME Social Science	N/A
Open Elective	4	Writing Across the Curriculum in the major	
Semester Total	**15 - 16**		

Minimum total credits from CSU (assuming no foreign language deficiency) = 96
Total transfer credits from OCPM = 32
Total credits required for B.S. in Biology = 128

Matriculation Requirements:
Any student admitted to OCPM under this program may apply for a B.S. degree in Biology from CSU upon successful completion of the required first-year OCPM coursework listed below.

Courses transferred from OCPM to CSU:		
Course number	**Course title**	**Credits**
BSC 111	Gross Anatomy	8
BSC 112	Histology	6
BSC 113	Biochemistry	6
BSC 125	Neurobiology	3
BSC 126	Physiology	6
BSC 127	Basic Microbiology & Immunology	3

Second-year OCPM courses that can be transferred to CSU, if necessary as electives:		
Course number	**Course title**	**Credits**
BSC 216	Microbiology and Infectious Diseases	5
BSC 218	Pathology I	4
BSC 219	Pharmacology and Therapeutics I	4

BSC 228	Pathology II	4
BSC 229	Pharmacology and Therapeutics II	4

Secondary Teacher Licensure

Students have the option of a single field licensure in life science or an integrated science licensure with a concentration in life science. Both licensure programs require coursework from the College of Science and the College of Education and Human Services. Contact the Biology adviser for required science courses for integrated science coursework. Contact the Education Student Service Center and CSUTeach for the education courses required for licensure or for information on the requirements for Post-Baccalaureate Secondary Teacher Licensure (216-687-4697 or JH 302).

Life Science Licensure

Biology Courses (40 credit hours)

- BIO 200/201 Introductory Biology I and Laboratory
- BIO 202/203 Introductory Biology II and Laboratory
- BIO 300/301 Plant Biology and Laboratory
- BIO 302/303 Animal Biology and Laboratory
- BIO 304/305 Population Biology and Evolution, and Laboratory
- BIO 306 Biochemistry and Molecular Biology
- BIO 308/309 Cell Biology and Laboratory
- BIO 310/311 Genetics and Recitation
- BIO 416/417 Microbiology and Laboratory
- BIO 495 Seminar Capstone
- Two credit hours of biology electives
- BIO 499 Exit Evaluation

Chemistry Courses (16 credit hours)

- CHM 261/266 General Chemistry I and Laboratory
- CHM 262/267 (or 278) General Chemistry II and Laboratory
- CHM 331/336 Organic Chemistry I and Laboratory

Mathematics or Statistics Course (4 credit hours)

- MTH 148 and MTH 149 (8 credit hours).
  OR
- one of the following courses
  - MTH 181 Calculus I
  - MTH 147 Statistical Concepts
  - ANT 305 Quantitative Anthropology
  - PSY 311 Behavioral Science Statistics
  - SOC 354 Quantitative Sociological Research

Physics Courses (8 credit hours)

- PHY 231 College Physics I - Biomedical Applications
- PHY 232 College Physics II - Biomedical Applications

- PHY 221 and 222 College Physics I and II or PHY 241 and 242 University Physics I and II may be substituted

Geology Course (4 credit hours)

- GEO 100/101 Introductory Geology and Laboratory

Certificate Program: Biotechnology

This program prepares students majoring in biology or chemistry, or with a baccalaureate degree that includes many biology and chemistry courses, for entry into positions in the biotechnology industry responsible for development of new products and quality control. The certificate program is interdisciplinary and enhances majors in biology or chemistry by exposing students to areas of engineering and bulk-processing, which are important in the biotechnology industry. The certificate program is 16 credit hours of classes taken in the colleges of Science and Engineering.

Requirements for a Certificate in Biotechnology - Laboratory Track

1. Prerequisites:
    - Either currently majoring in biology or chemistry, and completion of two semesters of Introductory Biology, and one semester each of Biochemistry, Cell Biology and Laboratory, Microbiology and Laboratory, and Calculus; or a baccalaureate degree that includes the following courses: two semesters each of Introductory Biology and General Chemistry, and one semester each of Biochemistry, Cell Biology and Laboratory, Microbiology and Laboratory, Organic Chemistry, and Calculus.
2. Required courses:
    - MTH 147 (4-0-4) Statistical Concepts with Applications
    - ESC 120 (1-0-1) Introduction to Engineering Design
    - BIO 435 (1-6-4) Techniques in Molecular Biology
    - CHE 366 (4-0-4) Bioprocess Engineering Principles
    - IME 465 (3-0-3) Manufacturing Systems Engineering

See the Certificate Programs section located earlier in the College of Science chapter of the catalog for additional information. Students in the Biotechnology Certificate Program are eligible to participate in the Cooperative Education Program through the Career Services Center even if they are not seeking a degree at Cleveland State University.

Biology Minor

A minor program of study in Biology consists of 16 credit hours. BIO 200, 201, 202, and 203 are required courses. The remaining eight credits must be 200-, 300- or 400-level biology courses. BIO 400 does not qualify for the minor program.

Chemistry

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- Back to Science College Degree Listing
- At-a-Glance
- Placement Examination
- Major Requirements
- Bachelor of Science in Chemistry - American Chemical Society Certified
- Bachelor of Science in Chemistry - Pre-Professional Studies
- Bachelor of Science in Chemistry - Pre-Professional Studies with Concentration in Pharmaceutical Sciences
- Certificate in Forensic Chemistry
- Honors Program
- Secondary Teacher Licensure
- Chemistry Minor
- CHM Courses
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Chemistry (B.S.)
At-a-Glance

Admission to major: No additional requirements beyond the prerequisites for the required courses

Minimum hours required for major with ACS Certification: 67

Minimum hours required for pre-professional major: 42

Minimum hours required for minor: 24

Special tracks/programs: American Chemical Society Certification, Pre-Professional Studies (pre-medical/pre-dental/pre-veterinarian or concentration in pharmaceutical sciences), Honors, Secondary Teacher Licensure programs

Advising: The Associate Chair for undergraduate programs serves as the adviser for all Chemistry majors. A handbook, *The Complete Chemistry Major*, is available from the Chemistry Department office. Phone 216-687-2451.

Student organization: The CSU American Chemical Society Student Affiliates Chapter

Additional information: Honors General Chemistry (CHM 262H and 267H) is available to students selected by the director of General Chemistry. An honors track for Chemistry majors admitted to the Honors Program is also available. The Chemistry major may be completed in the evening. Senior Research (CHM 489) provides an opportunity in the senior year for independent research with department faculty. The department also has a vigorous seminar program.

Prerequisite Statement: It is important that the student pay particular attention to the prerequisites and co-requisites in this catalog. These courses serve as essential background, and without them the student will experience significant difficulty. If a student has not satisfied the prerequisites and/or co-requisites, the instructor may have the student de-registered.

Cooperative Education Program: In earning the Bachelor of Science degree with ACS certification, the Chemistry major may elect the Cooperative Education Program (see Special Programs Chapter) in order to supplement chemistry course work with employment in the chemical industry.

General Information & Schedule for Chemistry Placement Examination

Students wanting to enroll in CHM 261, General Chemistry I will need to fulfill **ONE** of the following pre-requisites:

A minimum ACT score of 25 or SAT score of 550 on the Mathematics portion of those tests.

Successful completion of CHM 251, College Chemistry I (or equivalent) or CHM, Preparatory Chemistry with a grade of C or better in either course.

Take and successfully pass a standard American Chemical Society placement examination. Each student will have two chances to pass the exam, with a minimum two week interval required between attempts.

The General Chemistry I placement exam will be available, at no cost to the student, on a walk-in basis throughout the Spring and Summer semesters. Monday through Friday, 9:00 am – 3:00 pm at the

Academic Services/Placement Testing, RTW 289, 216-687-2272

The placement exam is approximately one hour in length and is a pencil-and-paper exam (i.e., not computerized). To take the exam, each student will need a photo ID and two #2 lead pencils.A student who does not pass the placement exam is strongly encouraged to enroll in CHM 161 Preparatory Chemistry. After completing of CHM 161 with a grade of C or better, the student may enroll in CHM 261.

For any further information, contact Dr. Jerry Mundell in the Department of Chemistry, 216-523-7310 or j.mundell@csuohio.edu.

Major-Field Requirements

Bachelor of Science in Chemistry - American Chemical Society (ACS) Certified Track

The program leading to the Bachelor of Science degree provides a strong foundation in the fundamentals of chemistry, physics, and mathematics, and meets the requirements for professional certification by the American Chemical Society. This program provides the broad fundamental knowledge most suited to students planning to become professional chemists or planning to pursue graduate training.

First Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
MTH 181 Calculus I	4
ENG 101 College Writing I	3
ASC 101 Orientation	1
Total	13

First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
MTH 182 Calculus II	4
ENG 102 College Writing II	3
Elective	3
Total	15
Second Fall Semester	**Credits**
CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
MTH 281 Multivariable Calculus	4
PHY 241 or 243 University Physics I	5
Total	15
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4
CHM 337 (or 338) Organic Chemistry Lab II	2
CHM 401 Chemical Information	2
PHY 242 or 244 University Physics II	5
Elective	3
Total	16
Third Fall Semester	**Credits**
CHM 311 Analytical Chemistry	4
CHM 321 Physical Chemistry I	4
CHM 316 Analytical Chemistry Lab	2
CHM 402 Biochemistry	3
Elective	3

Total	16
Third Spring Semester	**Credits**
CHM 322 Physical Chemistry II	4
CHM 411 Instrumental Analysis	3
CHM 416 Instrumental Analysis Lab	4
CHM 431 Advanced Organic Chemistry	2
Total	13
Fourth Fall Semester	**Credits**
CHM 426 Physical Chemistry Lab I	3
CHM 441 Inorganic Chemistry	4
CHM 446 Inorganic Chemistry Lab	2
CHM 471 Faculty Colloquium	1
Elective	3
Elective	3
Total	16
Fourth Spring Semester	**Credits**
CHM 427 Physical Chemistry Lab II	3
CHM 489 Senior Research	3
CHM 472 Student Colloquium	1
Elective	3
Elective	3
Elective	3
Total	16

Electives are to meet General Education requirements for B.S. degree.

Bachelor of Science in Chemistry - Pre-Professional Studies Track

The B.S. program in chemistry for students who plan to continue graduate study in the medical sciences provides those courses required and strongly recommended by most medical schools and also affords an

excellent base for students considering careers in medicine, medical research, dentistry, or veterinary medicine. This program does not lead to certification by the American Chemical Society.

Bachelor of Science in Chemistry for Pre-medical, Pre-dental, and Pre-veterinary Students

First Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ENG 101 College Writing I	3
BIO 200 Introductory Biology I	3
BIO 201 Introduction to Biology Lab I	1
ASC 101 Orientation	1
Total	13
First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
ENG 102 College Writing II	3
BIO 202 Introductory Biology II	3
BIO 203 Introduction to Biology Lab II	1
Elective	3
Total	15
Second Fall Semester	**Credits**
CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
PHY 221 College Physics I	5
MTH 181 Calculus I	4
Total	15
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4

CHM 337 (or 338) Organic Chemistry Lab II	2
PHY 222 College Physics II	5
MTH 182 Calculus II	4
Total	15
Third Fall Semester	**Credits**
CHM 320 Survey of Physical Chemistry	4
CHM 310 Survey of Analytical Chemistry	2
CHM 315 Survey of Analytical Chemistry Lab	2
CHM 402 Biochemistry	3
BIO 308 Cell Biology	3
BIO 309 Cell Biology Lab	1
Total	15
Third Spring Semester	**Credits**
BIO 302 Animal Biology	3
BIO 303 Animal Biology Lab I	1
BIO 310 Genetics	3
BIO 311 Genetics Recitation	1
Elective	3
Elective	3
Total	14
Fourth Fall Semester	**Credits**
BIO 416 Microbiology	3
BIO 417 Microbiology Lab	2
CHM 471 Faculty Colloquium	1
Chemistry Elective *(300- or 400-level chemistry course)*	4
Elective	3

Elective	3
Total	16
Fourth Spring Semester	**Credits**
Biology Elective *(300- or 400-level biology course)*	3
Chemistry Elective *(300- or 400-level chemistry course)*	4
Elective	3
Elective	3
Elective	3
Total	16

Electives are to meet General Education requirements for B.S. degree.

Bachelor of Science in Chemistry - Pre-Professional Studies Track - Concentration in Pharmaceutical Sciences

The concentration in Pharmaceutical Sciences provides pre-medical, pre-dental, or pre-veterinary students experience in the pharmaceutical part of their field prior to matriculation into a medical school. This program does not lead to certification by the American Chemical Society.

The B.S. Chemistry degree with a concentration in pharmaceutical sciences allows students to complete an undergraduate degree that would generally prepare them for medical school, graduate school in chemistry, or entry into a graduate pharmacy program following graduation. It differs from the NEOUCOP program, which does not issue students an undergraduate degree, but rather provides the prerequisites to qualify for the Doctor of Pharmacy program offered through NEOUCOP, through which they may become a licensed pharmacist.

Bachelor of Science in Chemistry for Premedical, Predental, and Pre-veterinary Students with Concentration in Pharmaceutical Sciences

First Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ENG 101 College Writing I	3
BIO 200 Introductory Biology I	3
BIO 201 Introduction to Biology Lab I	1
ASC 101 Orientation	1
Total	13

First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
ENG 102 College Writing II	3
BIO 202 Introductory Biology II	3
BIO 203 Introduction to Biology Lab II	1
Elective	3
Total	15
Second Fall Semester	**Credits**
CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
PHY 221 College Physics I	5
MTH 181 Calculus I	4
Total	15
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4
CHM 337 (or 338) Organic Chemistry Lab II	2
PHY 222 College Physics II	5
MTH 182 Calculus II	4
Total	15
Third Fall Semester	**Credits**
CHM 310 Survey of Analytical Chemistry	2
CHM 315 Survey of Analytical Chemistry Lab	2
CHM 341 Pharmacology I	3
CHM 351 Medicinal Chemistry	3

Elective	3
Elective	3
Total	16
Third Spring Semester	**Credits**
CHM 342 Pharmacology I	3
CHM 352 Medicinal Chemistry II	3
BIO 310 Genetics	3
BIO 311 Genetics Recitation	1
Chemistry/Biology Elective *(300- or 400-level chemistry or biology courses)*	4
Total	14
Fourth Fall Semester	**Credits**
CHM 402 Biochemistry	3
Chemistry/Biology Elective *(300- or 400-level chemistry or biology courses)*	3
BIO 416 Microbiology	3
BIO 417 Microbiology Lab	2
Elective	3
Elective	3
Total	17
Fourth Spring Semester	**Credits**
CHM 455 Biotechnology Techniques	4
CHM 471 Faculty Colloquium	1
Chemistry/Biology Elective *(300- or 400-level chemistry or biology courses)*	3
Chemistry/Biology Elective *(300- or 400-level chemistry or biology courses)*	3
Elective	3
Elective	3
Total	17

Electives are to meet General Education requirements for B.S. degree.

Certificate in Forensic Chemistry

The certificate program is designed for students who are interested in the application of scientific principles to solve problems that are related to the legal and regulatory systems. The program is interdisciplinary in nature and any person with the appropriate prerequisites for the necessary courses can earn the certificate. In order to earn a certificate in forensic chemistry, students need to complete the following courses:

- CHM 411* Instrumental Analysis (4 credit hours)
- CHM 417 Forensic Chemistry (3 credit hours)
- CHM 455 Biotechnology Techniques (4 credit hours)
- SOC 250 Introduction to Criminology (3 credit hours)
- CHM 496 Forensics Internship (3 credit hours)

*CHM 411 requires CHM 322, CHM 316,and a C or better in CHM 311 as prerequisites.

Honors Program

The Chemistry Department participates in the Honors Program at CSU by requiring honors students who are Chemistry majors (available for all tracks) to register for research courses (either CHM 379H Independent Study or, with senior status, CHM 489H Senior Research) under the guidance of a professor who acts as mentor. Honors chemistry students are required to enroll in at least 2 credit hours of research coursework each semester, for a minimum of 8 credit hours by the time of degree completion. Students are required to begin enrolling in research courses upon declaration of a Chemistry major or upon acceptance into the Honors Program. By getting involved in scientific research as soon as possible, honors students will better understand chemistry's status as a bench science and have the opportunity to participate in original, ground-breaking laboratory work.

Secondary Teacher Licensure

Students have the option of a single field licensure in chemistry, a dual field licensure in physical science and chemistry, or an integrated science licensure with a concentration in chemistry. All licensure programs require coursework from the College of Science and the College of Education and Human Services. Contact the Chemistry adviser for required science courses. Contact the Education Student Service Center for the education courses required for licensure or for information on the requirements for Post-Baccalaureate Secondary Teacher Licensure (216-687-4625 or Education Building 107A).

Chemistry Minor

Requirements for minor:

General Chemistry (CHM 261, 262 or 262H, 266 and 267 or 267H or 278) and 14 additional credits in chemistry courses numbered 300 or higher.

Environmental Science

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- Environmental Science Minor
- EVS Courses
- Go to Biology, Geology, and Environmental Science website

Environmental Science (B.S.)

At-a-Glance

Hours required for major: 75

Hours required for minor: 19 or 20

Special Tracks: Environmental Biology, Environmental Geology, Environmental Chemistry, Environmental Technology, Environmental Planning

Additional Information: The Tarun K. Mal Award is presented annually to outstanding graduating environmental science major(s)

Student Organizations: The Biology, Geology, Environmental Science Student Association; the Student Environmental Movement

Advising: Consult the BGES office 216-687-2440 or e-mail bges@csuohio.edu.

The B.S. in Environmental Science is a multidisciplinary degree offered through the Department of Biological, Geological, and Environmental Sciences (BGES) that provides a solid foundation in the basic sciences while permitting specialization in an area of focused study.

Note: Environmental Science is part of the Department of Biological, Geological, and Environmental Sciences.

Major-Field Requirements

All majors must take 59 credits of core courses and 16 elective credits in one of the special environmental foci described below.

A. Required Core Courses (59 credits)

- MTH 147 Statistical Concepts with Applications
  (**or** one of the following: ANT 305, PSY 311, SOC 354, BIO 540)
- PHY 221 College Physics I
  (**or** PHY 241, University Physics I)
- PHY 470 Environmental Physics
- CHM 261/266 General Chemistry I
- CHM 262/267 (or 278) General Chemistry II
  (**or** CHM 272/277, Honors General Chemistry)
- BIO 200/201 Introductory Biology I

- BIO 202/203 Introductory Biology II
- GEO 323 Geospatial Concepts & Tools
  (**or** UST 403, Cartography and Graphics)
- EVS 206 Introduction to Environmental Science
- EVS 300/301 Physical Features of Ecosystems
- EVS 302/303 Biological Features of Ecosystems
- EVS 499 Exit Evaluation

and **two** of the following planning and policy courses:

- ENV 435 Environmental Policy and Administration
- ENV 441 Environmental Planning
- ENV 442 Environmental Finance and Capital Budgeting
- CVE 471 Environmental Law, Regulation, and Compliance

and **one** (at least four credits) of the following capstone courses:

- EVS 490 Internship in Environmental Science
- EVS 496 Independent Study in Environmental Science
- EVS 497 Research in Environmental Science

Recommendations:

Although not required, students are urged to take MTH 181 Calculus I and MTH 182 Calculus II.

The university requirement for at least one WAC course within the major can be satisfied using EVS 390 in connection with a content course, or ENV 435/UST 435 Environmental Policy.

B. Elective Environmental Focus (16 credits)

Students earning a B. S. in Environmental Science must choose a focus area by selecting elective courses (totaling at least 16 credits) from among those given in **one** of the following course lists.

- Environmental Biology
- Environmental Geology
- Environmental Chemistry
- Environmental Technology
- Environmental Planning

Environmental Biology

- BIO 300/301 Plant Biology
- BIO 302/303 Animal Biology
- BIO 304/305 Population Biology and Evolution
- BIO 416/417 Microbiology
- BIO 420/421 Comparative Vertebrate Anatomy
- BIO 424/425 Principles of Animal Physiology
- BIO 450 Evolutionary Biology
- BIO 452 Marine Ecology
- BIO 453 Field Experience in Ecology and Conservation
- BIO 454/455 Ecology
- BIO 471 Summer Local Flora
- BIO 472 Wetland Ecology

- BIO 473 Spring Local Flora
- BIO 474 Stream Ecology
- EVS 450 Applied Ecology
- EVS 454 Conservation Biology
- EVS 455 Conservation Biology Laboratory
- EVS 470/471 Aquatic Ecosystems

Environmental Geology

- GEO 230 Natural Resources
- GEO 204 Mineralogy
- GEO 206 Petrology
- GEO 312/313 Sedimentation and Stratigraphy
- GEO 354 Geochemistry
- GEO 420/421 Rivers and Watershed of Northeast Ohio
- GEO 425 Introduction to Geographic Information Systems and Remote Sensing
- GEO 427 Advanced Topics in Geographic Information Systems & Remote Sensing
- GEO 444/445 Hydrogeology
- GEO 460 Geomorphology

Environmental Chemistry

- CHM 310/315 Survey Analytical Chemistry
- CHM 311/316 Quantitative Analysis
- CHM 320 Survey of Physical Chemistry
- CHM 331/336 Organic Chemistry I
- CHM 332/337 (or 338) Organic Chemistry II
- CHM 404/406 Environmental Chemistry

Environmental Technology

- ESC 203 Statics and Dynamics
- ESC 250 Differential Equations for Engineers
- ESC 301 Fluid Mechanics
- CHE 461 Principles of Air Pollution Control
- CVE 211/212 Surveying
- CVE 361 Hydraulic Engineering
- CVE 371 Environmental Engineering I
- CVE 450 Environmental Technology
- CVE 473/474 Environmental Engineering II
- CVE 475 Solid and Hazardous Waste Engineering

Environmental Planning

- ECN 202 Principles of Microeconomics
- ECN 474 Environmental and Natural Resource Economics
- GEO 425 Introduction to Geographic Information Systems and Remote Sensing
- GEO 427 Advanced Topics in Geographic Information Systems and Remote Sensing
- UST 300 Economics of Policy Analysis
- UST 375 Cities and Planning
- UST 434 Introduction to Geographic Information Systems
- ENV 440 Environment and Human Affairs
- ENV 443 Environmental Regulatory Compliance

- MLR 301 Principles of Management

With the approval of the departmental adviser, a student may develop an alternative selection of focused electives from the above lists.

Environmental Science Minor

A minor program of study in Environmental Science consists of 19 or 20 credit hours. BIO 202/203, EVS 206, EVS 300/301, and EVS 302/303 are required courses. Select one of the following courses to complete the minor: CHM 255, CVE 471, or GEO 323.

Geological Sciences

On this page:

- Back to Science College Degree Listing
- At-a-Glance
- Degree Programs
- Major Requirements (B.A. and B.S.)
- Secondary Teacher Licensure
- Minor in Geology
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- Go to Biology, Geology, and Environmental Science website

Geological Sciences (B.S., B.A.)
At-a-Glance

Geology is the study of the composition, structure, and history of the earth and its planetary neighbors. It deals with phenomena on, above, and below the surface of the earth, including those that take place on land, in the oceans, and in the air. It is a basic entry point for studies of natural resources and the human environment. It is a multidisciplinary science, drawing upon and, in turn, contributing to, the body of knowledge in the fields of chemistry, physics, biology, and mathematics. In recognition of this fact, the undergraduate geology programs which are offered through the Department of Biological, Geological, and Environmental Sciences are designed to provide broad training in geological sciences. Students interested in either a B.S. degree in Environmental Sciences (offered by BGES) or a B.A. degree in Environmental Studies (offered through the College of Urban Affairs) should consult the catalog listing for those programs.

Additional information: The Thomas L. Lewis Award is presented annually to outstanding graduating geology major(s).

Student Organizations: The Biology, Geology, Environmental Science Student Association; the Student Environmental Movement.

Degree Programs in Geology

The Bachelor of Arts and the Bachelor of Science degree programs in Geology are designed for students who intend to pursue careers in geology or closely related fields. They provide a solid grounding in the earth sciences, as well as the ancillary subject areas upon which the earth sciences depend. The Bachelor of Science degree is recommended for students wishing to go on to graduate school in the sciences or engineering and whose career directions are primarily technical or scientific. The Bachelor of Arts degree is designed for students wishing to acquire a general knowledge of geology as preparation for careers in related fields, such as law, business, or earth science certification in secondary education.

All geology programs are modular. They include a common core in the earth sciences and a series of courses common to the B.A. and/or B.S. degree. A grade of C is the minimum passing grade for all required major courses offered by the department. A major program in Geology is not available for evening students.

Major-Field Requirements

Common Core in the Earth Sciences

All geology majors must take the following first- and second-year courses in geology, basic science, and mathematics:

- GEO 100 Introductory Geology
- GEO 101 Introductory Geology Laboratory
- GEO 323 Geospatial Concepts and Tools
- CHM 261/266 and 262/267 (or 278) General Chemistry
- MTH 181 and 182 Calculus (required for the B.S.; optional for B.A.)
  or 6 credit hours from the MTH 151-156 series (required for B.A. if calculus is not taken)
- PHY 221 and 222 College Physics,
  or 241 and 242 University Physics
- GEO 499 Exit Evaluation

All geology majors must take a capstone course chosen from the following:

- GEO 451 Field Geology (4 credits minimum)
- GEO 490 Internship in Geology (3 credits minimum)
- GEO 496 Independent Study in Geology (3 credits minimum)
- GEO 497 Research in Geology (3 credits minimum)
- EST 492 Student Teaching (3 credits minimum)

Candidates for the degree of Bachelor of Science must take 28 credit hours of courses chosen from the following list, and candidates for the degree of Bachelor of Arts must take 20 credit hours of courses chosen from the following list. The array of courses taken will be determined by the student, in consultation with the departmental academic adviser, 216-687-3506.

- GEO 106 Introduction to Meteorology
- GEO 150/151 Geological History of the Earth
- EVS 206 Introduction to Environmental Science
- GEO 204 Mineralogy
- GEO 206 Petrology
- GEO 230 Natural Resources
- GEO 302 Paleobiology
- GEO 312/313 Sedimentation and Stratigraphy
- GEO 320/321 Structural Geology
- GEO 354 Geochemistry
- GEO 425 Introduction to Geographic Information Systems and Remote Sensing
- GEO 427 Advanced Topics in Remote Sensing and GIS
- GEO 444/445 Hydrogeology
- GEO 451 Field Geology (4 credits minimum; may also count toward capstone requirement)
- GEO 460 Geomorphology (may also count toward Writing Across the Curriculum requirements)

Secondary Teacher Licensure

Students have the option of a single field licensure in earth science or an integrated science licensure with a concentration in earth science. Both licensure programs require coursework from the College of Science and the College of Education and Human Services. Contact the Geology adviser for required science courses. Contact the Education Student Service Center for the education courses required for licensure or for information on the requirements for Post-Baccalaureate Secondary Teacher Licensure (216-687-4697 or JH 302).

Geological Sciences Minor

The minor in Geological Sciences is intended as a flexible opportunity for students to incorporate significant course work dealing with the earth sciences into their university careers. All Geology minors must be approved by the departmental adviser and must meet the following criteria:

1. The geology minor consists of GEO 100/101 (Introductory Geology and Laboratory) and at least 13 credit hours above the 100 level. At least 9 credit hours must be above the 200 level.
2. The courses making up the geology minor must comprise a consistent set of courses that makes sense to be taken together as a sequence. The sequence of courses will depend on the particular needs of the individual student, but the sequence as a whole must be approved in advance by the departmental adviser.

A grade of "C" is the minimum passing grade for all courses offered by the department and applied toward a minor.

Students interested in the minor program should consult with the departmental adviser (216-687-3506).

Health Sciences

On this page:

- Back to Science College Degree Listing
- At-a-Glance
- Major Requirements
- Upper-Division Honors Program
- To HSC Courses
- Go to Health Sciences website

Health Sciences (B.S.)
At-a-Glance

Degree Granted: Bachelor of Science (B.S.)

Admission to major: Any student who has been accepted by Cleveland State University and who is in good academic standing can choose to major in Health Sciences. Only the Pre-Podiatry track has admissions requirements.

Admission to the Pre-Podiatry Track: Students must apply for admission into the Pre-Podiatry Track. If a student enters Cleveland State University (CSU) with a high school GPA of 3.75 or higher and an ACT score of 29 or higher or SAT score of 1270 or higher, and maintains a GPA of at least a 3.2 at CSU, the student will automatically be admitted into the Ohio College of Podiatric Medicine (OCPM) curriculum after three years at CSU and completion of 92-96 semester credit hours of the pre-professional courses and health sciences core courses. Students who enter CSU with less than a high school GPA of 3.75, standardized scores beneath the stated limits, or if a cumulative 3.2 GPA is not maintained at CSU, then they will enter the regular applicant pool for admission to OCPM, must complete the Medical College Admission Test (MCAT) and complete or nearly complete the 92-96 semester credit hours of CSU pre-professional courses and health sciences core courses at the time of application.

Minimum hours required for major: Students must complete the core courses and 53 credit hours in an area of emphasis. Areas of emphasis for the Pre-Therapy and Pre-Podiatry tracks are described below. The course of studies for students in the General Interest and Associate Degree/Bachelor of Science completion tracks is designed based on individual interests and must be approved by an HSC adviser. All students must complete a capstone experience (HSC 484; HSC 486 and CSC 321; HSC 440H; or HSC 441H).

Five tracks are offered: **Associate Degree/Bachelor of Science Completion Program** for the student already holding an associate degree in a health-related field who wishes to complete a baccalaureate degree; **General Interest** for the student interested in health-related careers but who is uncertain about which health profession to pursue; **Pre-Therapy** for the student planning to enter the Doctor of Physical Therapy Program or Master of Occupational Therapy Program; and **Pre-Podiatry** (Bachelor of Science in Health Sciences/Doctorate of Podiatric Medicine with the Ohio College of Podiatric Medicine), where qualified students complete three years of study at CSU and four years of study at the OCPM; and **Pre-Physician Assistant Science** for the student planning to enter the Master of Science in Health Science Physician Assistant Science Track offered in partnership with Cuyahoga Community College.

Upper-Division Honors/Scholars Programs: Qualified Health Sciences majors may pursue admission into the Health Sciences Upper Division Honors/Scholars Programs (available for all tracks). All credits earned through the Health Sciences Upper Division Honors/Scholars Programs will be applied to the area of emphasis.

Special requirement*: Students pursuing a B.S. in Health Sciences must earn grades of "C" or above in order for courses to count toward satisfying the requirements for the health sciences major.* Students in the Pre-Podiatry track may apply for a B.S. in Health Sciences once they successfully complete their first year of course work at OCPM.

Advising: Students must make an appointment with an adviser through the online Appointment Plus program located on the departmental website or call the department for an appointment.

Department of Health Sciences Telephone: 216-687-3567

Bachelor of Science in Health Sciences Major Telephone: 216-687-3744

Internet: http://sciences.csuohio.edu/dept/healthsciences/

E-mail: healthsci@csuohio.edu

Major-Field Requirements

In addition to fulfilling the general course requirements of the university and the college, B.S. in Health Sciences majors are required to complete the health sciences core and 53 credits specific to an area of emphasis within one of five tracks: Associate Degree/Bachelor of Science Completion, General Interest, Pre-Therapy, Pre-PA, or Pre-Podiatry.

Areas of Emphasis

Students in the Associate Degree/Bachelor of Science Completion, General Interest, and Pre-Therapy tracks are required to establish an Area of Emphasis. Students work with an adviser to design an area of emphasis reflecting their particular interests and the skills required for the kinds of positions they wish to pursue. Students are encouraged to explore with their HSC adviser minors and certificate programs which may be applied toward their area of emphasis. Highly recommended certificate programs are the Gerontology Studies Certificate; the Certificate in Culture, Communication and Health; and the Bioethics Certificate. The program has identified pre-approved electives and a listing of these is available on the Bachelor of Science in Health Sciences website or from the Department. Students are required to update their program of study at least annually in collaboration with their adviser. The number of credits in the area of emphasis must be at least 53, and will vary depending on the specific track and area of interest the student wishes to pursue. Advising will be provided by the academic adviser or by faculty in the Department of Health Sciences or by an adviser in the College of Science Dean's Office*. Every student must have an approved program of study by the end of his or her first semester in the major.*

The curriculum includes:

- Completion of university and college requirements for the Bachelor of Science degree,
- Completion of a core of health sciences courses,
- A minimum of 53 credits of concentration in a health-care area of emphasis or all required courses for the specific track,
- Completion of required upper-division credits, and
- Completion of a minimum of 128 semester hours of study.

Required Health Sciences Core courses (all tracks):

- HSC 200 Introduction to Health Careers (waived for Pre-Podiatry track and Tri-C 2+2 students)
- HSC 203 Medical Terminology

- HSC 305 Culture and Health
- MTH 347 or PSY 311 Statistics (required for pre-therapy and pre-physician assistant tracks)
- MTH 147, MTH 347, or PSY 311 Statistics (required for associate degree completion, general interest, and pre-podiatry tracks).
- PHL 240 Health Care Ethics, PHL 440 Moral Reasoning and Bioethics, or PHL 441 Clinical Issues in Bioethics

Required Capstone Project (all tracks except Pre-Podiatry): **All students completing a BSHS major must complete a capstone experience. Pre-PT and Pre-PA students must complete HSC 484 Advanced Research and Writing. All other tracks may select from HSC 484 and HSC 486 Cooperative Education Career Experience Capstone. Honors/Scholars students may complete HSC 484 Advanced Research and Writing, or HSC 440H Honors Cooperative Education Career Experience Capstone. Honors students may also choose 441H Honors Cultural Competency Cooperative Education Experience Capstone to satisfy the capstone requirement.**

Recommended Courses (all tracks):

- CSC 121/321 Career Orientation
- ENG 301 Advanced Expository Writing
- HSC 483 Writing in Health Sciences

Tracks

Associate Degree/Bachelor of Science Completion Track

This track is designed for the student already holding an associate degree in a health-related field who wishes to complete a baccalaureate degree. In addition to the health sciences core, students interested in this track must complete a minimum of 53 credits in an area of emphasis. *Students are encouraged to explore with their HSC adviser minors and certificate programs that may be applied toward their area of emphasis.* Highly recommended certificate programs are the **Gerontology Studies Certificate; the Certificate in Culture, Communication and Health; and the Bioethics Certificate.** Concentrations in Health and Wellness, Community Health, and Human Factors are also recommended.

A special articulation agreement is applied to students who have completed an Associate's Degree in Allied Health from Cuyahoga Community College (Tri-C). Students must complete Cleveland State University General Education Requirements and a minimum of 53 credits in an area of emphasis toward the Health Sciences major in addition to the health sciences core. The 2+2 Agreement streamlines the process for students who have completed any one of the twenty-one allied health majors at Cuyahoga Community College, by predetermining coursework that may be applied toward the area of emphasis in the Health Sciences major. Depending on the allied health program completed at Tri-C, students will need to complete anywhere between 16 – 24 additional credits toward their major, the Health Sciences core courses, and General Education Requirements, which include a minimum of 42 upper division credit hours (300-400 level courses). It is recommended that students select from an array of courses offered through the Department of Health Sciences or minor and/or certificate programs offered at CSU to apply toward their Health Sciences major and upper division course work. HSC 200 (Introduction to Health Sciences) is waived for all students entering the Health Sciences major through this 2+2 Agreement.

General Interest Track

Designed for students interested in health-related careers but who are uncertain which profession they prefer at this time. Students must complete a minimum of 53 credits in an area of emphasis in addition to the health sciences core. Students are encouraged to explore with their HSC adviser minors and certificate programs

which may be applied toward their area of emphasis. Highly recommended certificate programs are the Gerontology Studies Certificate; the Certificate in Culture, Communication and Health; and the Bioethics Certificate. Concentrations in Health and Wellness, Community Health, and Human Factors are also recommended. Students are also encouraged to visit the Bachelor of Science in Health Sciences website.

Pre-Therapy Track

A student choosing the Pre-Therapy Track must complete the 53 credits of programmatic prerequisites for either the Master of Occupational Therapy Program (MOT) or Doctor of Physical Therapy Program (DPT), in addition to the required health sciences core.

Students interested in entering the Master of Occupational Therapy or Doctor of Physical Therapy must complete the following:

- BIO 200 Introductory Biology
- BIO 201 Introductory Biology Lab
- HSC 381 Pathology
- HSC 422 or BIO 422/423 Physiology with lab
- HSC 475/457 Human Gross Anatomy with lab
- HSC 476/478 Neurosciences with lab

Pre-Occupational Therapy Area of Emphasis: Students interested in the Master of Occupational Therapy Program must also complete the following, plus 13-15 credits in an area of emphasis:

- PSY 101 Introduction to Psychology
- PSY 223 Life Span Development
- PSY 345 Abnormal Psychology
- HSC 484 Advanced Research and Writing in Health Sciences or HSC 486 Cooperative Education Career Experience Capstone

Students choosing this area of emphasis may sign an Intent to Enroll in the Master of Occupational Therapy Program Form as early as the end of freshman year if they have an overall G.P.A. of 3.0 or above. For additional information concerning the Master of Occupational Therapy or the Intent to Enroll Form, consult the Graduate Catalog, or contact the Health Sciences Department.

Pre-Physical TherapyArea of Emphasis: Students interested in entering the Doctor of Physical Therapy Program must also complete the following:

- CHM 251/256 College Chemistry I and Lab
- CHM 252/257 College Chemistry II and Lab
- PHY 221 College Physics I and Lab
- PHY 222 College Physics II and Lab
- Two Social or Behavioral Science courses*
- HSC 484 Advanced Research and Writing in Health Sciences*

*Slight course requirement variations may occur for pre-physical therapy students enrolled in the Honors Program. Consult an HSC adviser for more information.

For additional information regarding the Doctor of Physical Therapy, consult the Graduate Catalog or contact the Health Sciences Department.

Pre-Physician Assistant Science Track

A student choosing the Pre-Physician Assistant Science Track must complete the 53 credits of programmatic prerequisites for the Physician Assistant Program offered by the Master of Science in Health Sciences Program and Cuyahoga Community College, in addition to the required health sciences core.

Students interested in applying to the Master of Science in Health Sciences Physician Assistant Science Track must complete the following:

- BIO 200 Introductory Biology I
- BIO 201 Introductory Biology I Lab
- BIO 202 Introductory Biology II
- BIO 203 Introductory Biology II Lab
- BIO 264 Microbiology
- BIO 265 Microbiology Lab
- BIO 266 Anatomy and Physiology I
- BIO 267 Anatomy and Physiology I Lab
- BIO 268 Anatomy and Physiology II
- BIO 269 Anatomy and Physiology II Lab
- CHM 261 General Chemistry I
- CHM 266 General Chemistry I Lab
- CHM 262 General Chemistry II or CHM 272 Honors Chemistry II
- CHM 267 General Chemistry II Lab or CHM 277 Honors Chemistry II Lab
- CHM 331 Organic Chemistry I
- CHM 336 Organic Chemistry I Lab
- HSC 484 Advanced Research and Writing in Health Science
- PSY 101 Introduction to Psychology

A student must complete 4-8 additional credits as electives. The program has identified recommended electives. A listing of these is available on the Bachelor of Science in Health Sciences website or from the Department.

Students also should be aware that the Master of Science in Health Sciences Physician Assistant Science Track requires interested applicants to have completed a minimum of 40 hours of shadowing a physician assistant. For additional information regarding the Master of Science in Health Sciences Physician Assistant Track, consult the Graduate Catalog or contact the Health Sciences Department.

Pre-Podiatry Track

This track is offered in collaboration with the Ohio College of Podiatric Medicine (OCPM). It consists of three years of study at the pre-professional undergraduate level at Cleveland State University, including the health sciences core (except students do not need to take HSC 200). Qualified students then complete four years of study at the professional and clinical level at the OCPM. Upon completion of required course work during their first year of study at OCPM, students may apply for a B.S. degree in Health Sciences. With four additional years of study at OCPM beyond the three-year program at Cleveland State, students may qualify to receive the degree of Doctor of Podiatric Medicine.

In addition to the general university and college requirements and the health sciences core, except HSC 200, students take a series of pre-professional courses in biology, chemistry, physics, English, and General Education course work as listed below:

Required Pre-professional Courses:

- BIO 200/201 Intro Biology I
- BIO 202/203 Intro Biology II
- CHM 261/266 General Chemistry I
- CHM 262/267 General Chemistry II or
  CHM 272/277 (Honors)(6)
- CHM 331/336 Organic Chemistry I
- CHM 332/337 (or 338) Organic Chemistry II
- PHY 221 College Physics I and Lab
- PHY 222 College Physics II and Lab
- English - 6 credit hours
- General Education Courses - 52-56 credit hours

Required Professional Courses: Maximum transfer of 34-36 credits from OCPM to reach required 128 credits for the B.S. in Health Sciences. Health Sciences will accept 34-36 credits from the OCPM first-year program:

- BSC 111: Gross Anatomy
- BSC 112 Histology
- BSC 113 Biochemistry
- PMD 111 Podiatric Medicine I
- BSC 124 Lower Extremity Anatomy
- BSC 125 Neurobiology
- BSC 126 Physiology
- BSC 127 Basic Microbiology & Immunology

If needed, Health Sciences may accept some credits from the OCPM second-year program:

- BSC 216 Microbiology & Infectious Diseases
- BSC 218 Pathology
- BSC 219 Pharmacology & Therapeutics
- BSC 228 Pathology
- BSC 229 Pharmacology & Therapeutics

Upper-Division Honors/Scholars Programs

The Health Sciences Upper-Division Honors/Scholars Programs are designed for the Health Sciences major who is considering graduate-level training and seeks engaged learning opportunities in research, clinical, or cultural competency tracks. Application for admission to one of the programs must be made at least 30 days before the semester in which the applicant wishes to enter, typically the spring or summer semester before their junior or senior year. A minimum overall GPA of 3.5 is required for admission to the Honors Program and a minimum overall GPA of 3.25 is required for admission to the Scholars Program. University Honors/Scholars students and other students majoring in Health Sciences who meet the minimum GPA requirements may enter the Honors or Scholars Program. Credits earned in the Honors or Scholars Programs will apply towards the major.

Research Track: (9 credits): Consists of the following: (Honors and Scholars)

- HSC 484 Advanced Research and Writing in Health Sciences
- HSC 438H Honors Independent Research I
- HSC 439H Honors Independent Research II.

Clinical Track: (8-13 credits minimum): Consists of the following:

Option 1: (Honors only)

- ONE contract* course in Health Sciences. Students must arrange to complete the Honors Contract Course Petition form for a 300-400 level HSC PRIOR to taking the course. The course and contract must be approved by the HSC Honors Adviser.
- ONE graduate level course in Health Sciences (6-9 credits)
- HSC 440H: Honors Cooperative Education Career Experience Track (2-4 credits). An approved cooperative education experience. As a prerequisite to the cooperative education experience, students are required to take CSC 321 (Career Strategies Orientation)

Option 2: (Honors and Scholars)

- TWO graduate level courses in Health Sciences (6-9 credits)
- HSC 440H: Honors Cooperative Education Career Experience Track (2-4 credits). This involves an approved cooperative education experience. As a prerequisite to the cooperative education experience, students are required to take CSC 321 (Career Strategies Orientation: 1 credit/online).

Cultural Competency Track (9 – 11 credits): (Honors only) Consists of the following:

- HSC 505: Culture and Health Care (3 credits)
- ONE contract* course in Anthropology, Sociology, Communication, or Psychology relevant to culture
- HSC 441H: Honors Cultural Competency Cooperative Education Experience (2-4 credits). This involves an approved cooperative education experience. As a prerequisite to the cooperative education experience, students are required to take CSC 321 (Career Strategies Orientation: 1 credit/online).

*Contract Courses: The honors contract course compromises the community of an honors course, but it permits both students and faculty to pursue the creativity, uniqueness, independence, and academically enhanced standards of honors in a special setting. Students must initiate an Honors Contract Course Petition in writing by consulting with the adviser and faculty member, proposing a course of study, identifying appropriate outcomes or experiences, and specifying criteria for evaluation. A form, available on the University Honors Program website, is provided to help students and instructors formalize the honors contract course. **The petition for honors contract course should be submitted at the time of pre-registration, with final proposal due prior to the end of the semester *before* the term in which the honors contract course will be taken. Scholars students may not take a contract course.**

Mathematics

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- Second Major for Computer Science Students
- Secondary Teacher Licensure
- Minor in Mathematics
- Minor in Statistics
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- Go to Mathematics website

Mathematics (B.S., B.A.)
At-a-Glance

Admission to major: MTH 181, MTH 182 with a grade of C or better in each

Minimum hours required for major: 46

Hours required for minor: 24

Special tracks: Actuarial, applied mathematics, pure mathematics, statistics, secondary teacher licensure

Teacher licensure: Yes

Student organization: Math Club

For further information: 216-687-4680 or http://sciences.csuohio.edu/dept/mathematics/

The department offers the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree in mathematics. The mathematics requirements for the two degrees are identical; the difference between them is the number of science credits that are required (see below: B.A., B.S.).

Each course offered by the Mathematics Department is also designed to provide one or more of the following:

- part of the mathematical component of a liberal education
- the mathematical tools needed by students in business, computer science, education, engineering, and the biological, physical, and social sciences
- training beyond the introductory level in the major areas of pure and applied mathematics

The core mathematics requirements for a Bachelor's degree form the fundamental building blocks for almost every field of mathematics. By choosing suitable mathematics electives, students may obtain bachelors' degrees that prepare them for mathematical work in business or industry, for the actuarial profession, or for graduate study in mathematics. The following tracks are offered in the B.A. and B.S. programs: general, actuarial, applied mathematics, pure mathematics, and statistics. In addition, a secondary teacher licensure is offered with the College of Education and Human Services. Computer Science students can readily double major in mathematics by taking appropriate courses. A mathematics minor is available as well.

Major-Field Requirements

All mathematics majors must complete a minimum of 46 credits in mathematics. These credits must include the following courses:

- MTH 181 Calculus I
- MTH 182 Calculus II
- Three courses from the following four:
    - MTH 220 Discrete Mathematics
    - MTH 281 Multivariable Calculus
    - MTH 286 Introduction to Differential Equations
    - MTH 288 Linear Algebra

      Note: Students seeking secondary teaching licensure in the CSUTeach program must take MTH 220, MTH 281, MTH 286, and MTH 288.

- MTH 396 Junior Seminar (A two-credit-hour course taken in the student's junior year.)
- MTH 496 Senior Project (A four-credit-hour course taken in the student's senior year.)

The remaining 20 credits must be in mathematics courses numbered 300 or above (excluding MTH 326, MTH 327, MTH 328, MTH 329, and MTH 330). Two of these courses must be numbered 400 or above.

A grade of C or better must be earned in each of MTH 181, MTH 182, MTH 220, MTH 281, MTH 286, and MTH 288.

For the Bachelor of Arts degree: A Mathematics major must complete a minimum of 11 science credits, distributed in one or any combination of the following fields: biology, geology, environmental sciences, chemistry, and physics.

For the Bachelor of Science degree: A Mathematics major must complete a minimum of 24 science credits distributed in one or any combination of the following fields: biology, geology, environmental sciences, chemistry, physics, and computer and information science. These 24 credits must include PHY 241 (or PHY 243) and PHY 242 (or PHY 244). Any courses in computer and information science used to meet this requirement must be courses that satisfy CIS major-field requirements.

Recommended Electives for Various Tracks

1. Actuarial: MTH 301, MTH 323, and MTH 424
2. Applied mathematics with emphasis on engineering and the physical sciences: MTH 301, MTH 311, MTH 401, MTH 434, and MTH 487
3. Applied mathematics with emphasis on numerical computation: MTH 301, MTH 311, and MTH 487
4. Pure mathematics: MTH 301, MTH 358, MTH 381, MTH 420, and MTH 434
5. Statistics: MTH 301, MTH 323, and MTH 424
6. Secondary school teaching: MTH 301, MTH 323, MTH 333, MTH 358, and MTH 401
7. Another possible elective is MTH 493 (Special Topics in Mathematics). Its content varies widely from year to year; consult the Mathematics Department for current information. A student may also arrange to take an individual reading course (MTH 497) on an advanced mathematical topic not included in the regular course offerings of the department. Such reading courses are subject to departmental approval.

Prospective Mathematics majors should make every effort to complete 100- and 200-level mathematics courses by the end of their sophomore year. Otherwise they may have difficulty in scheduling required advanced courses and electives. Students who decide to major in mathematics should consult an adviser in the Mathematics Department early in the sophomore year to work out a program of advanced courses suited to

their career objectives and capabilities. When preparing for this meeting, students should carefully consider the preceding recommendations.

Second Major for Computer Science Students

Students in either the CIS or CSC program, who choose a concentration in mathematics can, by suitably choosing electives and with a few additional credits in mathematics, complete all mathematics requirements for the Bachelor of Science degree with a major in mathematics. See your CIS Department adviser and an adviser in the Mathematics Department for further information.

Secondary Teacher Licensure

Students have the option of a single field licensure in mathematics. This licensure program requires coursework from the College of Science and the College of Education and Human Services. Contact the Mathematics adviser for required science courses. Contact the CSUTeach advisor Dr. Joanne Goodell for the education courses required for licensure or for information on the requirements for Post-Baccalaureate Secondary Teacher Licensure (216-687-5426 or Julka Hall 346).

Mathematics Minor

A minor in mathematics consists of 24 credits in mathematics, including:

- MTH 181 Calculus I
- MTH 182 Calculus II
- 8 credits chosen from among:
    - MTH 220 Discrete Mathematics
    - MTH 281 Multivariable Calculus
    - MTH 283 Multivariable Calculus for Engineers
    - MTH 284 Matrices for Engineers
    - MTH 286 Introduction to Differential Equations
    - MTH 288 Linear Algebra

      Note: MTH 281 and MTH 283 may not both be used.

      MTH 284 and MTH 288 may not both be used.

    MTH 323 and MTH 347 may not both be used.

The remaining 8 credits must be in mathematics courses numbered 300 or above, excluding MTH 326, MTH 327, MTH 328, MTH 329 and MTH 330.

Statistics Minor

Students interested in a career or graduate school that requires a research component involving data analysis should consider earning a Statistics minor. The study of mathematics, psychology, sociology, biology, environmental science, health science, social science, among others, can be greatly enhanced by a minor in statistics. Note that only MTH 323 can be counted for both the Mathematics major and the minor in statistics.

The Statistics minor consists of at least 19 credits of coursework including one of the following courses

MTH 147 Statistical Concepts with Applications
MTH 323 Statistical Methods

ECN 322 Statistics and Econometrics
COM 303 Communication Inquiry
PSY 311 Behavioral Science Statistics
SOC 354 Quantitative Sociological Research
SWK 305 Perspectives on Social Work Research II
UST 404 Urban Data Analysis
OSM 201 Business Statistics
PSC 251 Introduction to Data Analysis
or any other introductory statistics course approved by the Department of Mathematics;

and four courses consisting of:

- MTH 347 Applied Statistics
- MTH 421 Time Series Analysis
- MTH 431 Categorical Data Analysis
- MTH 435 Statistical Consulting and Programming

or a statistics course approved by the Department of Mathematics.

Pharmaceutical Science (B.S.)

At-a-glance

Admission to major: No additional requirements beyond the prerequisites for the required courses

Minimum hours required for major with pharmaceutical chemistry and analysis track: 84

Minimum hours required for major with medicinal and biological chemistry track: 82

Minimum hours required for major with pharmacy administration track: 91

Special tracks/programs: Pharmaceutical chemistry and analysis track, medicinal and biological chemistry track, pharmacy administration track, Honors

Advising: The Associate Chair for undergraduate programs in the Chemistry Department serves as the adviser for all Pharmaceutical Science majors. Phone 216-687-2451.

Additional information: Honors General Chemistry (CHM 262H and 267H) is available to students selected by the director of General Chemistry. An honors track for Pharmaceutical Science majors admitted to the Honors Program is also available. Senior Research (CHM 489) provides an opportunity in the senior year for independent research with department faculty.

Prerequisite Statement: It is important that the student pay particular attention to the prerequisites and corequisites in this catalog. These courses serve as essential background, and without them, the student will experience significant difficulty. If a student has not satisfied the prerequisites and/or corequisites, the instructor may have the student de-registered.

General Information & Schedule for Chemistry Placement Examination

Students wanting to enroll in CHM 261, General Chemistry I will need to fulfill **ONE** of the following pre-requisites:

A minimum ACT score of 25 or SAT score of 550 on the Mathematics portion of those tests.

Successful completion of CHM 251, College Chemistry I (or equivalent) or CHM, Preparatory Chemistry with a grade of C or better in either course.

Take and successfully pass a standard American Chemical Society placement examination. Each student will have two chances to pass the exam, with a minimum two week interval required between attempts.

The General Chemistry I placement exam will be available, at no cost to the student, on a walk-in basis throughout the Spring and Summer semesters. Monday through Friday, 9:00 am – 3:00 pm at the

Academic Services/Placement Testing, RTW 289, 216-687-2272

The placement exam is approximately one hour in length and is a pencil-and-paper exam (i.e., not computerized). To take the exam, each student will need a photo ID and two #2 lead pencils.

A student who does not pass the placement exam is strongly encouraged to enroll in CHM 161 Preparatory Chemistry. After completing of CHM 161 with a grade of C or better, the student may enroll in CHM 261.

For any further information, contact Dr. Jerry Mundell in the Department of Chemistry, 216-523-7310 or j.mundell@csuohio.edu.

Major-Field Requirements

Bachelor of Science in Pharmaceutical Science – Pharmaceutical Chemistry and Analysis Track

The program leading to the Bachelor of Science in Pharmaceutical Science – Pharmaceutical chemistry and analysis track focuses on chemical analysis and provides training in both quantitative and instrumental analysis. This is an appropriate track for those considering any graduate or physician program, or for persons who wish to perform bench research in industry.

First Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ENG 101 English I	3
BIO 200 Introduction to Biology I	3
BIO 201 Introduction to Biology Lab I	1
ASC 101 Orientation	1
Elective	3
Total	16
First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
BIO 202 Introduction to Biology II	3
BIO 203 Introduction to Biology Lab II	1
ENG 102 College Writing II	3
Elective	3
Total	15
Second Fall Semester	**Credits**

CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
MTH 181 Calculus I	4
BIO 266 Anatomy and Physiology I	3
BIO 267 Anatomy and Physiology Lab I	1
Elective	3
Total	17
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4
CHM 337 (or 338) Organic Chemistry Lab II	2
MTH 182 Calculus II	4
BIO 268 Anatomy and Physiology II	3
BIO 269 Anatomy and Physiology II	1
Elective	3
Total	17
Third Fall Semester	**Credits**
CHM 311 Analytical Chemistry	4
CHM 316 Analytical Chemistry Lab	2
CHM 341 Pharmacology I	3
CHM 402 Biochemistry	3
PHY 221 College Physics	5
Total	17
Third Spring Semester	**Credits**
CHM 342 Pharmacology II	3
CHM 411 Instrumental Analysis	3
CHM 416 Instrumental Analysis Lab	4

PHY 222 College Physics II	5
Total	15
Fourth Fall Semester	**Credits**
CHM 405 Analytical Toxicology	3
CHM 444 Pharmacokinetics	3
BIO 308 Cell Biology	3
BIO 309 Cell Biology Lab	1
CHM 351 Medicinal Chemistry I	3
Elective	3
Total	16
Fourth Spring Semester	**Credits**
CHM 455 Biotechnology Techniques	4
CHM 449 Practicum OR CHM 489 Senior Research	4
CHM 352 Medicinal Chemistry II	3
Elective	3
Elective	3
Total	17

Electives are to meet General Education requirements for B.S. degree.

Bachelor of Science in Pharmaceutical Science – Medicinal and Biological Chemistry Track

This track focuses on biological processes and biochemical analysis. This is an appropriate track for those considering any graduate or physician program or for persons who wish to perform bench research in industry. This track has more biology instruction than the Pharmaceutical Chemistry and Analysis track, and may be more appropriate for those with interest in the biological sciences.

Bachelor of Science in Chemistry for Premedical, Predental, and Preveterinary Students

First Fall Semester	**Credits**
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ENG 101 English I	3

BIO 200 Introduction to Biology I	3
BIO 201 Introduction to Biology Lab I	1
ASC 101 Orientation	1
Elective	3
Total	16
First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
BIO 202 Introduction to Biology II	3
BIO 203 Introduction to Biology Lab II	1
ENG 102 College Writing II	3
Elective	3
Total	15
Second Fall Semester	**Credits**
CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
MTH 181 Calculus I	4
BIO 266 Anatomy and Physiology I	3
BIO 267 Anatomy and Physiology Lab I	1
Elective	3
Total	17
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4
CHM 337 (or 338) Organic Chemistry Lab II	2
MTH 182 Calculus II	4
BIO 268 Anatomy and Physiology II	3

BIO 269 Anatomy and Physiology II	1
Elective	3
Total	17
Third Fall Semester	**Credits**
CHM 341 Pharmacology I	3
CHM 310 Survey of Analytical Chemistry	2
CHM 315 Survey of Analytical Chemistry Lab	2
CHM 402 Biochemistry	3
PHY 221 College Physics I	5
Total	15
Third Spring Semester	**Credits**
CHM 342 Pharmacology II	3
CHM 405 Analytical Toxicology	3
BIO 310 Genetics	3
BIO 311 Genetics Recitation	1
PHY 222 College Physics II	5
Total	15
Fourth Fall Semester	**Credits**
BIO 308 Cell Biology	3
BIO 309 Cell Biology Lab	1
BIO 432 Molecular Genetics	3
CHM 351 Medicinal Chemistry I	3
Elective	3
Elective	3
Total	16

Fourth Spring Semester	Credits
CHM 455 Biotechnology Techniques	4
CHM 449 Practicum OR CHM 489 Senior Research	4
CHM 352 Medicinal Chemistry II	3
Technical Elective	3
Elective	3
Total	17

Electives are to meet General Education requirements for B.S. degree. Technical electives are any CHM or BIO course at the 300- or 400-level.

Bachelor of Science in Pharmaceutical Chemistry – Pharmacy Administration Track

This track focuses on business methodology and administration. This track includes some fundamental business courses to give graduates a better understanding of business administration. This program is suited for people who are interested in managing pharmacies or other pharmaceutical businesses. This program does not prepare graduates to enter most post-baccalaureate programs in science or medicine, but may be appropriate for Pharm.D. programs.

First Fall Semester	Credits
CHM 261 General Chemistry I	4
CHM 266 General Chemistry Lab I	1
ENG 101 English I	3
BIO 200 Introduction to Biology I	3
BIO 201 Introduction to Biology Lab I	1
ASC 101 Orientation	1
Elective	3
Total	16
First Spring Semester	**Credits**
CHM 262 (or 262H) General Chemistry II	4
CHM 267 (or 267H or 278) General Chemistry Lab II	1
BIO 202 Introduction to Biology II	3
BIO 203 Introduction to Biology Lab II	1
ENG 102 English II	3
Elective	3

Total	15
Second Fall Semester	**Credits**
CHM 331 Organic Chemistry I	4
CHM 336 Organic Chemistry Lab I	2
MTH 148Math for Business Majors I	4
BIO 266 Anatomy and Physiology I	3
BIO 267 Anatomy and Physiology Lab I	1
Elective	3
Total	17
Second Spring Semester	**Credits**
CHM 332 Organic Chemistry II	4
CHM 337 (or 338) Organic Chemistry Lab II	2
MTH 149 Math for Business Majors II	4
BIO 268 Anatomy and Physiology II	3
BIO 269 Anatomy and Physiology II	1
Elective	3
Total	17
Third Fall Semester	**Credits**
CHM 402 Biochemistry I	3
CHM 341 Pharmacology I	3
ACT 221 Intro to Accounting I	3
ECN 201 Principles of Macroeconomics	3
Technical Elective	3
Total	16
Third Spring Semester	**Credits**

CHM 342 Pharmacology II	3
ECN 202 Principles of Microeconomics	3
ACT 222 Intro to Accounting II	3
Elective	3
Technical Elective	3
Total	15
Fourth Fall Semester	**Credits**
FIN 351 Introduction to Financial Management	4
CIS 306 Computers and Society	3
MKT 301 Introduction to Marketing	3
OSM 201 Business Statistics I	3
Elective	3
Total	16
Fourth Spring Semester	**Credits**
OSM 202 Business Statistics II	3
CHM 449 Practicum OR CHM 489 Senior Research	4
Elective	3
Technical Elective	3
Technical Elective	3
Total	16

Electives are to meet General Education requirements for B.S. degree. Technical electives are any CHM or BIO course at the 300- or 400-level.

Honors Program

The Chemistry Department participates in the Honors Program at CSU by requiring Honors students who are Chemistry majors (available for all tracks) to register for research courses (either CHM 379H Independent Study or, with senior status, CHM 489H Senior Research) under the guidance of a professor who acts as mentor. Honors chemistry students are required to enroll in at least 2 credit hours of research coursework each semester, for a minimum of 8 credit hours by the time of degree completion. Students are required to begin enrolling in research courses upon declaration of a Chemistry major or upon acceptance into the Honors Program. By getting involved in scientific research as soon as possible, honors students will better understand chemistry's status as a bench science and have the opportunity to participate in original, ground-breaking laboratory work.

Physics

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Physics (B.S., B.A.)
At-a-Glance

Minimum hours required for B.A. major: 76

Minimum hours required for B.S. major: 68

Minimum hours required for minor: 18

Advising: Call Dr. Kaufman 216-687-2436 or Dr. Walker 216-687-2424

A major or minor in physics will help you prepare for a wide range of careers in product development, research, teaching, and many other fields where you combine your knowledge of physics with other disciplines. The Physics Department offers you a choice of three undergraduate programs to suit your particular goals, interests and strengths:

Bachelor of Science: preparation for technical careers in industry and research centers and for graduate studies

Bachelor of Science Honors: preparation for careers in research and for doctoral studies in physics

Bachelor of Arts: preparation for careers in applied (engineering) physics, computer science, education, medicine, law, technical sales, scientific journalism or other fields where analytic skills and broad understanding of physics are important. Students majoring in Engineering or in Computer and Information Science (CIM and CIS calculus based; physics option) can earn the B.A. in Physics as an additional degree with a modest increase in course requirements.

Physics Minor: provides students majoring in other technical fields with additional skills, thus broadening their career options.

Major-Field Requirements

Major-Field Requirements for B.S. in Physics

- the following required physics courses PHY 243 , PHY 244 , PHY 330, PHY 340, PHY 350, PHY 440, PHY 450, PHY 455, PHY 474, PHY 475;

- at least 10 credits of technical electives to be selected from 300- and 400-level courses in physics, chemistry, mathematics, or engineering approved by the physics adviser;
- the following required mathematics and computer science courses: MTH 181, MTH 182, MTH 281, CIS 260.

Major-Field Requirements for B.S. Honors in Physics

- the following required physics courses: PHY 243 ,PHY 244 ,PHY 330, PHY 340, PHY 350, PHY 440, PHY 450, PHY 455, PHY 474, PHY 475;
- at least 10 credits from: PHY395 (Seminar), PHY441 (Quantum Mechanics II), PHY493 (at least 2 credit hours of research with written and oral presentations);
- the following required mathematics and computer science courses: MTH 181, MTH 182, MTH 281, CIS 260;
- Cumulative grade-point average, upon graduation, of 3.20 or higher in PHY and MTH courses. A student who does not achieve this, but meets all the requirements for the B.S. degree in Physics, will receive that degree instead.

Major-Field Requirements for B.S. Scholars in Physics

- the following required physics courses: PHY 243 ,PHY 244 ,PHY 330, PHY 340, PHY 350, PHY 440, PHY 450, PHY 455, PHY 474, PHY 475;
- **at least 8 credits from: PHY 325, PHY 335, PHY 360, PHY 395, PHY 411, PHY 415, PHY 416, PHY 441, PHY 470, PHY 480, PHY 482;**
- **at least 2 credit hours of project course work** with written and oral presentations: **PHY 411 (Advanced Physical Laboratory) or PHY 493 (Advanced Topics in Physics).**
- the following required mathematics and computer science courses: MTH 181, MTH 182, MTH 281, CIS 260;
- Cumulative grade-point average, upon graduation, of 3.20 or higher in PHY and MTH courses. A student who does not achieve this, but meets all the requirements for the B.S. degree in Physics, will receive that degree instead.

Major-Field Requirements for B.A. in Physics are:

- the following required physics courses: PHY 243 ,PHY 244 , PHY 330, PHY 474;
- 16 credits of physics electives to be selected from all the 300- and 400-level physics courses;
- the following required mathematics and computer science courses: MTH 181, MTH 182, MTH 281 or (MTH 220 and MTH 284), CIS 260;
- introductory sequence of chemistry with associated laboratory courses (CHM 261, CHM 262, CHM 266, CHM 267),
  or introductory sequence of biology with associated laboratory courses (BIO 200, BIO 201, BIO 202, BIO 203),
  or the following computer and information science courses: CIS 265, and any other 4-credit-hour 300-level CIS course;
- 16 upper-division credits in a coherent program from a different discipline such as biology, chemistry, computer science, mathematics, environmental science, education or engineering. Program must be approved by the Physics Department adviser.
- 4 of the 32 credit hours (16 cr physics electives + 16 cr different discipline) have to be a 300 or 400 level lab course, approved by the Physics Department adviser.

Secondary Teacher Licensure

Students have the option of a single field licensure in physics, a dual field licensure in physical science and chemistry, or an integrated science licensure with a concentration in physics. All licensure programs require

coursework from the College of Science and the College of Education and Human Services. Contact the Physics adviser for required science courses. Contact the Education Student Service Center for the education courses required for licensure or for information on the requirements for Post-Baccalaureate Secondary Teacher Licensure (216-687-4625 or Rhodes Tower 1401).

Physics Minor

Physics Minor Requirements

- the following required physics courses: PHY 243 , and PHY 244;
- At least 8 credits of 300- and 400-level physics courses.

Psychology

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- Major Requirements (BA)
    - Evening Major
- Honors Program
- Psychology Minor
- PSY Courses
- Go to Psychology website

Psychology (B.A.)
At-a-Glance

Minimum credit hours required for major: 36

Minimum credit hours required for minor: 19. Within the basic framework for the Psychology minor, a student may design a program of study that complements his or her major.

Advising: For advising on program requirements or what psychology classes to take, trained advisers are available in the department office. Additionally, for career-related advising, each psychology major is encouraged to develop a relationship with at least one full-time faculty member. To learn about available times for advisers and full-time faculty, email psych.advising@csuohio.edu, call the department office at (216) 687-2544 or visit the department office in CB 158.

Student Organizations: Psi Chi (a national psychology scholastic honorary society); Psychology Club.

Additional information:

Psychology is concerned with explaining, predicting, and describing the thoughts, emotions, and actions of humans and animals. An undergraduate psychology major is an appropriate preparation for a wide variety of careers in which an understanding of mind and behavior would be of value. Some students who complete a psychology major pursue advanced study in psychology or in such professional disciplines as law and medicine; others find employment in human services and business settings.

In the CSU Psychology Department, approximately 20 full time faculty members have active research programs in areas that range from consumer behavior to psychopathology and from successful aging to workplace dynamics. Information about and contact information for faculty members can be found on the department website, http://www.csuohio.edu/sciences/dept/psychology/. Faculty members are willing to talk about opportunities for participation in their research programs with interested and suitably prepared undergraduates.

Independent study opportunities (PSY 396) may be arranged by a student in consultation with a faculty member.

It is possible to complete the requirements of the psychology major by taking courses only in the evening (i.e., that have class meetings that begin at 4 p.m. or later). Although not all courses are offered with evening class meetings, all required courses are offered, and at least one course from each core group is offered each year.

An Outstanding Undergraduate Psychology Student award is presented annually.

Major Requirements (B.A.)

To satisfy the requirements of the Psychology major, a student must complete a minimum of 36 credit hours of psychology courses. For a course to count toward the major, a grade of at least C must be earned.

1. Required courses:
    - PSY 101 Introduction to Psychology
    - PSY 311 Behavioral Science Statistics (or ANT 305 or both OSM 201 and OSM 202)
    - PSY 412 Psychology Laboratory
    - PSY 499 Exit Evaluation
2. One course from each of the following areas:
    - *Core A*
        - PSY 339 Social Psychology
        - PSY 342 Psychology of Personality
        - PSY 344 Intellectual and Personality Testing
        - PSY 345 Abnormal Psychology
    - *Core B*
        - PSY 368 Perceptual Processes
        - PSY 370 Psychology of Learning
        - PSY 372 Memory and Cognition
        - PSY 451 Human Performance
        - PSY 479 History of Psychology
    - *Core C*
        - PSY 385 Psychology of Motivation
        - PSY 481 Psychopharmacology
        - PSY 482 Biological Basis of Behavior
        - PSY 487 Brain and Cognition
3. 12 elective credit hours: Any courses offered by the Psychology Department, including Core courses. However, no more than a total of 8 credit hours of PSY 390 and PSY 396 may be applied toward the major.

A student who majors in psychology should seriously consider taking courses in such disciplines as biology, anthropology, mathematics, sociology, and the philosophy of science. Any student who plans to pursue graduate study in psychology should obtain a solid background in statistics, research methods, and experimental psychology.

Any student majoring in Psychology who plans to apply to graduate programs in psychology should consult an adviser (see **Advising** above) to appropriately structure an undergraduate program of study. A student who is not a Psychology major who is contemplating graduate study in psychology should consult with an adviser in the Psychology Department.

Evening Major in Psychology

It is possible to complete the requirements of the psychology major by taking courses only in the evening (i.e., that have class meetings that begin at 4 p.m. or later). Although not all courses are offered with evening class meetings, all required courses are offered, and at least one course from each core group is offered each year.

Honors Program in Psychology

The departmental Honors Program is particularly appropriate for Psychology majors with strong academic records who want additional exposure to the research process. Graduation with honors in Psychology reflects a student's independence, commitment to the field, and expertise in a specialized area. Completion of the program may be advantageous to students applying to graduate or professional programs.

Participants in the program register for PSY 495H Honors Seminar in the spring semester, during which they develop proposals for the research that they conduct under faculty supervision during the following year while registered for PSY 497H Honors Project and/or PSY 498H Honors Project and Defense.

A minimum GPA of 3.3 is required for admission. Prerequisite courses include PSY 311 and PSY 412, but in special cases, these may be taken after admission to the program.

Applications are solicited in the fall semester; instructions may be obtained in the Psychology Department office (CB 158).

Psychology Minor

To satisfy the requirements of the Psychology minor, a student must complete a minimum of 19 credit hours of psychology courses. For a course to count toward the minor, a grade of at least C must be earned. The courses for the minor must include at least: (a) PSY 101 (Introduction to Psychology); (b) two core courses that must be from different core areas (A, B, and C; see Major Requirements, above); and (c) 7 additional credit hours of psychology courses, including at least one upper-division course (numbered 300 or higher).

Speech and Hearing

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- School Speech-Language Pathology
- Speech and Hearing Minor
- SPH Honors Program
- SPH Courses
- Go to Speech and Hearing website

Speech and Hearing (B.A.)
At-a-Glance

Minimum hours required for major: 40

Minimum hours required for minor: 18

Advising: Faculty adviser assigned upon declaration of major. Phone 216-687-3807.

Student organization: Chapter of NSSLHA (National Student Speech-Language-Hearing Association)

The Speech and Hearing Program offers coursework for students who wish to enter the professions of speech-language pathology or audiology, which are concerned with the identification and treatment of communication disorders in human beings across the lifespan. Speech and hearing are interrelated fields that require knowledge of biology, psychology, sociology, and linguistics. The program at Cleveland State University provides an excellent pre-professional foundation that prepares students for professional training at the master's and doctoral levels. Students may also earn an undergraduate minor in Speech and Hearing which is especially valuable for students majoring in education, special education, or the health-care professions.

Major-Field Requirements

At the undergraduate level, students majoring in Speech and Hearing are required to take the following 40 credit hours:

Core Courses

- SPH 228 Phonetics
- SPH 231 Introduction to Communication Disorders
- SPH 232 Introduction to Audiology
- SPH 251 American Sign Language I
- SPH 335 Clinical Methods in Communication Disorders
- SPH 349 Speech and Language Development for Majors
- SPH 351 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPH 431 Basic Speech-Language Disorders
- SPH 434 Clinical Practicum in Speech-Language Pathology
- SPH 438 Dialect Differences in the Schools
- SPH 481 Aural Rehabilitation
- SPH 482 Audiometry

- SPH 485 Speech and Hearing Science
- SPH 486 Clinical Practicum in Audiology
- SPH 497 Senior Capstone Portfolio

Evening Program

It is not possible to complete the undergraduate Speech and Hearing major solely in the evening. The program attempts to offer a variety of required courses in the evening but cannot staff a complete evening major. Evening students should make an appointment with the Program Director to discuss the program and its offerings.

School Speech-Language Pathology

The Master of Arts in Speech Pathology and Audiology is the minimum degree requirement for those students seeking the Professional Pupil Services License to practice as a school speech-language pathologist. In addition to the courses required for the Master of Arts degree students must also complete the coursework listed below, some of which is available at the undergraduate level. Master's degree recipients who have completed these additional course and practicum requirements may apply to the Ohio Department of Education for a Pupil Services (teaching) license.

- SPH 435/535 Organization and Administration of a Public School Speech and Hearing Program (See Graduate Catalog)
- SPH 438 Dialect Differences in the Schools OR
  SPH 594 Seminar in Dialect Differences in the Schools (See Graduate Catalog)
- EST 575 Practicum in Speech and Hearing Therapy (See Graduate Catalog)

  Undergraduates may complete SPH 435 and SPH 438 in preparation for completion of EST 575 at the graduate level.

Speech and Hearing Minor

The Speech and Hearing minor, which is especially valuable for students majoring in education, special education, linguistics, or the health-care professions, provides the student with a foundation in the study of the developmental and normative aspects of speech, language, and hearing. Students must earn 18 credits in SPH coursework. Required courses include: SPH 228, SPH 229 or SPH 349, SPH 231, and SPH 232. Two additional courses are to be selected from the following: SPH 351, SPH 431, SPH 438, SPH 481, SPH 482, and SPH 485. Students must discuss with their adviser whether it is appropriate to enroll in SPH 229 Speech and Language Development or SPH 349 Speech and Language Development for majors. SPH 349 is advantageous for students who expect to enroll in a graduate program in speech-language pathology and pursue professional practice.

SPH Honors Program

The Speech and Hearing Upper Division Honors Program is designed for the Speech and Hearing (SPH) major who seeks engaged learning opportunities in research, clinical experience, or cultural competency tracks. Application for admission to the Honors Program must be made at least 30 days before the semester in which the applicant wishes to enter, typically the spring or summer semester before their senior year. The SPH Honors Committee will review these applications. A minimum overall GPA of 3.5 is required for admission.

University Honors students majoring in SPH who meet the minimum 3.5 GPA requirement may enter the Honors Program and must maintain the GPA requirement throughout the Honors Program.

Upon entering the Honors Program the SPH student must select an honors adviser from among the SPH faculty or professional staff. The honors adviser will be responsible for coordinating the student's honors experience. This person will be the SPH 495 Speech Seminar instructor of record and will supervise the student's honors experience.

SPH majors in the Honors Program will complete all of the requirements of the major. Honors work completed by SPH students will be in addition to the courses required for the major. However, SPH students may coordinate their honors assignments with the requirements for their Senior Capstone Portfolio (with permission of the honors adviser and the instructor for the SPH 497 Capstone Portfolio course).

The successful completion of the honors requirements leads to recommendation by the SPH Honors Committee for graduation with honors. Achievement of this goal is indicated on the student's transcript.

I. Research Track Requirements (9 credits)

1) HSC 484 Advanced Research and Writing in Health Sciences (5 credits) **PRIOR TO** 2) SPH 495 Speech Seminar (1 to 3 credits) for 2 semesters for a total of 4 credits.

Students enroll in HSC 484 (WAC approved by UCC) to (a) become familiar with current faculty research as well as published research in the student's area of interest, (b) gain advanced knowledge and skill in research methodology, and (c) design a research project under faculty mentorship. Students should begin consulting with SPH faculty or professional staff while enrolled in HSC 484 to coordinate the HSC 484 course material with the research areas under study by the faculty or professional staff or to discuss research in the student's area of interest.

Research proposed during HSC 484 is then conducted while SPH majors are enrolled in SPH 495 Speech Seminar. Enrollment in SPH 495 results in completion of an honors research project under the direction of the honors adviser. Research projects can involve basic or applied research using a variety of methodologies.

The honors research project will be presented as a poster to students, faculty, and professional staff during Health Sciences Honors Research Day or during the College of Science Research Day.

II. Clinical Track Requirements (6 credits minimum to 8 credits maximum)

1) ONE graduate level course in Speech and Hearing or Health Sciences (3 credits). The course must be approved by the student's honors adviser.
2) As a prerequisite to the cooperative education experience, students are required to take CSC 321 (Career Strategies Orientation: 1 credit), which is a web-based course.
3) An approved cooperative education experience (2 credit minimum to 4 credits maximum). Ongoing enrollment in SPH 495 for 2 semesters during this experience for at least 1 credit hour per semester in order to meet the 2 credit minimum to 4 credit maximum.

Graduate Level Course

The student will take 1 graduate level course. Students may not use these credits towards the CSU graduate degree in Speech Pathology and Audiology if the credits count toward the bachelor's degree, per CSU policy. Note: Students may enroll in graduate courses in SPH only by permission of the instructor and the SPH Program Director because these courses are generally only open to students accepted into the SPH graduate program.

Cooperative Education Experience (2 credit minimum – 4 credit maximum) (Note: 1 credit = 15 hours of contact time)

Students must complete a 2 to 4 credit Cooperative Education Experience for 2 semesters. This experience will be supervised by the student's honors adviser. Students will enroll in SPH 495 in order to receive credit and supervision by the honors adviser.

The focus of the cooperative education experience is to provide the honors student with an opportunity to participate in an engaged learning experience that will enhance knowledge and expertise in an area relevant to a career focus, e.g., speech-language pathology or audiology. The student will prepare a response to the experience that will connect theory and practice. This response will include an analysis of research literature relevant to the student's cooperative experience.

Suggestions for Cooperative Education Experiences

- Working as a teaching assistant to the honors adviser in order to assist in the delivery of an undergraduate course (after having completed the course with a B+ or higher). The student will complete a teaching assignment to be determined by the faculty or professional staff member. Examples include developing teaching aids, developing tutorials for students, or teaching a unit in a course.
- Completing a clinical career experience by working with a practicing speech-language pathologist or audiologist. If this practitioner is not a CSU employee, he or she will collaborate with the honors adviser.
- Working as a research assistant for the honors adviser on a clinical research project.

Examples of Literature Analysis Supporting Clinical Track Experiences

- Analysis of literature on a disorder of speech, language, or hearing
- A review of the evidence-based literature supporting clinical practice or clinical research
- An overview of research focused on supporting a particular clinical intervention

The outcomes of the Cooperative Education Experience will be presented as a poster to students, faculty, and professional staff during Health Sciences Honors Research Day or during the College of Science Research Day.

III. Cultural Competency Track Requirements (8 credits minimum to 10 credits minimum)

1) HSC 505 Culture and Health Care (3 credits)

2) Students must complete a 300-400 level course in anthropology, sociology, communications, or psychology associated with the pending interdisciplinary Culture, Communication, and Health Certificate Program offered through HSC

(3 credits). (This course may serve to complete another requirement, such as WAC or upper division coursework.)

3) The above requirements must be completed PRIOR TO enrollment in SPH 495 Speech Seminar. Ongoing enrollment in SPH 495 for 2 semesters for at least 1 credit hour per semester in order to meet the 2 credit minimum to 4 credit maximum. (Note: 1 credit = 15 hours of contact time)

Enrollment in SPH 495 results in completion of a cultural competency project. The focus of the project is for the students to apply principles of cultural competency to an engaged learning experience and to develop a response to the experience connecting theory and practice. The project must include both an engaged cultural experience and an analysis of research literature relevant to the student's cultural experience.

Examples of a Cultural Competency Project

- Completing a service learning or community experience such as volunteering at the Free Clinic or with a health advocacy agency for persons in economic need
- Working as a research assistant for the honors adviser on a research project that explores issues relevant to culture and health
- Participating in an international program offered through CSU and focusing the analysis of relevant literature on culture and health in this location

The cultural competency project will be presented as a poster to students, faculty, and professional staff during Health Sciences Honors Research Day or during the College of Science Research Day.

College of Sciences and Health Professions

Certificates

- Biotechnology (offered by the Department of Biological, Geological, and Environmental Sciences)
- Culture, Communication, and Health (offered by the School of Health Sciences)
- Forensic Chemistry (offered by the Department of Chemistry)
- Gerontological Studies (offered by the School of Health Sciences)

In addition, a bioethics certificate program is offered through the Philosophy Department in the College of Liberal Arts and Social Sciences. Further information may be found at http://www.csuohio.edu/class/philosophy/bioethics.html.

College of Sciences and Health Professions: Certificate Programs

On this page:

- Back to COS Certificates
- Description
- Required Courses
- Go to Career Services' information on Biotechnology Certificate
- Go to Department of Biological, Geological, and Environmental Sciences

Biotechnology (Certificate)

The biotechnology industry is one of the fastest growing industries in northeastern Ohio. The Certificate in Biotechnology — Laboratory Track, which is administered through the Department of Biological, Geological, and Environmental Sciences, is an interdisciplinary program that builds on majors in biology or chemistry and exposes students to areas of knowledge that are not part of the typical major, but are underpinnings for the biotechnology industry. The certificate program provides students with the appropriate qualifications to enter the segment of the workforce that is responsible for the development and quality-control aspects of the biotechnology industry. Students in the Biotechnology Certificate Program are eligible to participate in the Cooperative Education Program through the Career Services Center even if they are not seeking a degree at Cleveland State University.

Required Courses:

1. Prerequisites:
    - Either currently majoring in biology or chemistry, and completion of two semesters of Introductory Biology, and one semester each of Biochemistry, Cell Biology and Laboratory, Microbiology and Laboratory, and Calculus; or a baccalaureate degree that includes the following courses: two semesters each of Introductory Biology and General Chemistry, and one semester each of Biochemistry, Cell Biology and Laboratory, Microbiology and Laboratory, Organic Chemistry, and Calculus.
2. Required courses:
    - MTH 147 (4-0-4) Statistical Concepts with Applications
    - ESC 120 (1-0-1) Introduction to Engineering Design
    - BIO 435 (1-6-4) Techniques in Molecular Biology
    - CHE 366 (4-0-4) Bioprocess Engineering Principles
    - IME 465 (3-0-3) Manufacturing Systems Engineering

College of Sciences and Health Professions: Certificate Programs

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- Required Courses
- Go to Anthropology
- Go to Communication
- Go to Health Sciences
- Go to Psychology
- Go to Sociology and Criminology

Culture, Communication and Health (Joint Certificate)

The Culture, Communication, and Health Certificate is an interdisciplinary program in which students examine the rich interplay among culture, communication, and the health care context. A comprehensive understanding of contemporary health care requires an appreciation of the multiple ways that culture and societal institutions influence the communication (and miscommunication) of health information within an administrative or service delivery context. The complex intersections among culture, communication and health cannot be understood in isolation; rather they are most effectively appreciated when studied in a multi-disciplinary context. In this program, students can gain a fundamental understanding of the subtle, dynamic role that culture plays in the practice and communication of health information. A critical component of contemporary health care is cultural competence, and completing the requirements of this certificate offers students the academic and practical skills needed to implement a culturally competent approach to health care.

Students who complete this certificate are expected to understand the value of diversity; to have the capacity for cultural self-reflection, including diverse health beliefs, values, and practices; to be aware of the dynamics inherent when cultures interact, with an emphasis on health communication and health issues and contexts; to recognize the importance of effective health communication in a diverse community; and to develop the skills necessary to make adaptations to health communication within an administrative or service delivery context reflecting an understanding of diversity between and within cultures.

The academic units participating in this certificate program are the Departments of Anthropology, Psychology, and Sociology and Criminology, the School of Communication, and the School of Health Sciences

Admission and Completion: For admission to this certificate program, a student must earn at least a B- in one of the prerequisite courses (ANT 100 or SOC 201). To receive the certificate, a GPA of at least 2.8 must be achieved for the coursework completed for the certificate. A student must also complete an Intent to Complete the Certificate in Culture, Communication, and Health Form which can be obtained from the School of Health Sciences.

About Required Courses: The certificate requires 20-21 semester hours. These include 7 hours of core courses in health sciences and communication, 11-12 hours of electives, and a 2-3 credit internship/cooperative education experience requiring a culture, communication, and health focus.

Requirements

- **Prerequisite (does not count toward the credits required for the certificate):**
  - ANT 100 Human Diversity (4) or SOC 201 Race, Class, Gender (3)

- **Required Courses (7 semester hours):**
  - COM 362 Health Communication (4)
  - HSC 305 Cultures and Health Care (3)
- **Elective Courses: 3-4 electives (11-12 credit hours). Must be in at least two different disciplines.**
  - ANT 260 Language, Culture, and Society (4)
  - ANT 270 African American Culture (4)
  - ANT 311 Medical Anthropology (4)
  - ANT 321 Psychological Anthropology (4)
  - COM 332 Interracial Communication (4)
  - COM 348 Intercultural Communication (4)
  - COM 350 Persuasive Communication and Attitude Change (4)
  - COM 449 Advanced Issues in Health Communication (4)
  - HED 450 Theories in Health Education and Health Behavior (4)
  - HSC 346 Women's Health (3)
  - PSY 353 Health Psychology (4)
  - PSY 356 Multicultural Psychology (4)
  - SOC 211 American Culture and Society (3)
  - SOC 215 Black/White Interaction (3)
  - SOC 312 Sociology of Mental Illness (4)
  - SOC 343 Medical Sociology (4)
  - SOC 380 Racial and Ethnic Inequality (4)

- **Capstone Project: (2-3 credits)**
  Internship/Cooperative Education Experience: Students may pursue internship or cooperative education experiences through the Departments of Anthropology, Psychology, Sociology and Criminology, the School of Communication, **and the School of Health Sciences.**

Advising

Students interested in pursuing the Certificate in Culture, Communication, and Health should seek advising from the School of Health Sciences and complete the required Intent to Complete the Certificate in Culture, Communication, and Health Form. Contact the School of Health Sciences at 216-687-3567 for an appointment.

College of Sciences and Health Professions: Certificate Programs

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- Required Courses
- Go to Department of Chemistry

Forensic Chemistry (Certificate)

The certificate program is designed for students who are interested in the application of scientific principles to solve problems that are related to the legal and regulatory systems. The program is interdisciplinary in nature and any person with the appropriate prerequisites for the necessary courses can earn the certificate. In order to earn a certificate in forensic chemistry, students need to complete the following courses:

Required Courses:

- CHM 411* Instrumental Analysis (4 credit hours)
- CHM 417 Forensic Chemistry (3 credit hours)
- CHM 455 Biotechnology Techniques (4 credit hours)
- SOC 250 Introduction to Criminology (3 credit hours)
- CHM 496 Forensics Internship (3 credit hours)

*CHM 411 requires CHM 316 and a “C” or better in CHM 311.as prerequisites.

College of Sciences and Health Professions: Certificate Programs

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- Go to Gerontological Studies Program website

Gerontological Studies

The Gerontological Studies certificate is an interdisciplinary program designed primarily for students planning for a career in the field of aging. The emphasis is upon learning about aging as a basic human experience and as an important aspect of contemporary society.

The School of Health Sciences and the department of Psychology developed the certificate program and will offer courses listed below regularly to allow students to complete the certificate in a timely manner.

Requirements:
In order to earn a certificate, students must complete a minimum of 15 semester credit hours which must include:

- **Required Course**:
  - HSC/ PSY Introduction to Gerontology (Offered on a rotational basis by Health Sciences, and Psychology)
- ***Three Electives**: Choose from the following approved courses:
  - ANT 280 The Anthropology of Aging and Adulthood
  - BIO 168 Biology of Aging
  - BIO 468 Theories of Aging
  - COM 362 Health Communication
  - HSC 426 Functional Performance of Older Adults
  - NUR 498 Health of Older Persons
  - PED 472 Physiology of Aging
  - PSY 223 Lifespan Development
  - PSY 429 Psychology of Aging
  - REL 250 Stages of Life
  - REL 251 Perspectives on Death and Dying
  - SOC 316 Sociology of Aging
  - SWK 465 Aging and Social Work
  - USA/UST 380/SWK 493 Urban Family Development

  *Elective courses may have prerequisites which are not considered part of the certificate.

- **Capstone Project: (3-6 credits)**
  Students must complete an internship, research or project offered by the School of Health Sciences or of the department of Psychology.

Advising:

The Gerontological Studies Certificate is an interdisciplinary program and students from any major can pursue the certificate. Students interested in pursuing the Certificate in Gerontology Studies should seek advising from the School of Health Sciences and complete the required Intent to Complete the Gerontology Studies Certificate Form. Contact the School of Health Sciences at 216-687-3567 for an appointment.

College of Sciences and Health Professions

Minors

Students should consider a minor area of study as a means to complement their major program and/or to develop expertise in an additional area of study. For additional information and a listing of requirements, students should contact the department which offers the minor. The following minors are offered:

- Biology
- Chemistry
- Environmental Science
- Geological Sciences
- Mathematics
- Physics
- Psychology
- Speech and Hearing
- Statistics

Maxine Goodman Levin College of Urban Affairs

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    - Other Academic Programs
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        - Degree Completion Programs
        - 5-Year BA/MPA Program
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    - Albert A. Levin Chair of Urban Studies and Public Service
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    - The Urban Center
        - Center for Community Planning and Development
        - Center for Economic Development
        - Center for Public Management
        - Great Lakes Environmental Finance Center (GLEFC)
        - Center for Nonprofit Policy and Practice
        - Northern Ohio Data & Information Service (NODIS)
        - Center for Leadership Development
        - Ohio Center for the Advancement of Women in Public Service

- Go to the Maxine Goodman Levin College of Urban Affairs website

Introduction

Web site: http://urban.csuohio.edu

The Maxine Goodman Levin College of Urban Affairs prepares students to effectively address urban issues with creative and innovative programming and problem solving. Levin College students undertake projects that address these issues in

- Public policy
- City planning

- Public safety management and homeland security
- Economic development
- Environmental and sustainability policy
- Organizational leadership
- Nonprofit administration

Research undertaken through the college directly links the university with the organizations addressing challenges in the Cleveland metropolitan area and across the state and nation.

Degrees

The college offers:

- the Bachelor of Arts degree in:

  - Environmental Studies
  - Nonprofit Administration
  - Public Safety Management
  - Urban Studies
  - Organizational Leadership

- Minors in:

  - Environmental Studies
  - Sustainable Urban Development
  - Nonprofit Administration
  - Urban Studies

- Certificate programs in:

  - Public Management
  - Urban Geographic Information Systems (GIS) on the undergraduate and graduate levels
  - Sustainable Urban Development

- Five-year bachelor's to master's degree programs:

  - BA/MPA, Public Administration
  - BA/MA, Environmental Studies
  - BA/MNAL, Nonprofit Administration and Leadership

The college also offers the following programs in conjunction with the College of Graduate Studies:

- Doctor of Philosophy in Urban Studies and Public Affairs
- Master of Public Administration
- Master of Urban Planning, Design, and Development
- Master of Nonprofit Administration and Leadership
- Master of Science in Urban Studies
- Master of Arts in Environmental Studies

In conjunction with the Cleveland-Marshall College of Law, the college offers dual degree programs leading to the:

- JD/MPA

- JD/MUPDD
- JD/MA (Environmental Studies)

The Levin College of Urban Affairs has Partnerships, articulation agreements, and degree completion programs with Cuyahoga Community College, Lakeland Community College, and Lorain County Community College. These programs include law enforcement, corrections, security administration, police and fire science, nursing, human services, environmental health and safety, and paralegal studies programs.

Credit for life experience is available to students whose prior learning meets the criteria established by the faculty for academic credit toward the bachelor's degree.

Financial Assistance

The Levin College of Urban Affairs offers a number of scholarships to undergraduate students. Students interested in scholarships should contact the Levin College for application materials. (Also see the section on Expenses and Financial Aid at the beginning of this catalog.)

Office of Student Services

The Levin College's Office of Student Services (OSS) is dedicated to meeting the diverse needs of students. OSS staff provides registration assistance and academic advising and coordinates internships, graduate assistantships, and scholarship awards. Career-development aids, such as mentoring, resume review, and job referrals, are available to current students and alumni. Additional information about the OSS is available on the Levin College Web site. In addition, students can access www.csucareerline.com to search for jobs and internships, post their resumes, research employers, and arrange to have job openings emailed to them.

The Levin College's website address is http://urban.csuohio.edu.

Maxine Goodman Levin College of Urban Affairs

Department of Urban Studies

Urban Affairs graduates are employed in the public, private, and nonprofit sectors. They are engaged in city planning, program development, community organizing, public safety and homeland security, nonprofit administration, environmental and sustainability policy, and economic development. Many graduates have found the urban affairs majors to be a strong foundation for advanced study in law, urban planning, public administration, or environmental policy and management.

Degrees

Undergraduate students may pursue a Bachelor of Arts degree in one of five majors:

- Environmental Studies
- Nonprofit Administration
- Organizational Leadership
- Public Safety Management
- Urban Studies

The College offers three five-year Bachelor's to Master's programs:

- BA/MPA (Public Administration)
- BA/MA in Environmental Studies
- BA/MNAL (Nonprofit Administration and Leadership)

Minors

Students in any discipline may elect to pursue a minor in:

- Environmental Studies
- Sustainable Urban Development
- Nonprofit Administration
- Urban Studies

Certificates

- Public Management
- Sustainable Urban Development
- Urban Geographic Information Systems

Degree Completion Programs

Graduates of community colleges with degrees in law enforcement, fire science, paralegal studies, public administration, nursing, environmental health and safety, and human services may complete their Bachelor of Arts degree through articulation agreements between their college and the Levin College.

- Articulation Agreements

Requirements

Degree Requirements

The Bachelor of Arts degree is awarded to students who fulfill the following requirements:

- A minimum of 128 credit hours of academic work, of which 36 credit hours must be upper-division (300- and 400-level) courses
- Achievement of a grade-point average of 2.00 or better
- Completion of the foreign language requirement, if applicable. (Students who graduated from high school in 1987 or later and who did not complete two years of the same foreign language in high school must remove the foreign language deficiency by completing a first-year language sequence or two semesters of American Sign Language plus one approved foreign culture course.)
- Completion of ASC 101, Introduction to University Life (freshmen only)
- Completion of university, college, and major-field requirements

College Requirements

Students in all Urban Affairs degree programs must complete the following college requirements

- UST 200 Introduction to Urban Studies
- UST 404 Urban Data Analysis
- UST 405 Methods of Research and Evaluation
- UST 490 Urban Internship *or*
  ENV 490 Environmental Internship

Environmental Studies

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- Five-Year BA+MA Program
- ENV Courses
- Go to Urban Affairs website

Environmental Studies (B.A.)
At-a-Glance

Degree granted: Bachelor of Arts

Hours required for major: 43 to 45

Tracks: Environmental Planning and Sustainable Development, Environmental Management

Articulation Agreement: Environmental safety

Advising: designated college adviser: phone: 216-687-3884

Student Organization: Urban Studies Association, American Planning Association Student Chapter

Additional Information: Internship opportunities are available to all students; scholarships are available to qualified students; all required courses in the major are available in the evening. Students with substantial prior learning experience may apply for credit through the Assessment and Accreditation of Prior Learning Experience program. Opportunities to participate in small seminar groups, research projects, and online courses are available. Students should consult their adviser for assistance in planning their course of study.

Major Field Requirements

Environmental Studies majors are required to take the following courses or their transfer equivalents:

A. Required Courses (12 credit hours)

- UST 300 Economics of Policy Analysis
- ENV 436 Urban Sustainability
- ENV/UST 489 Advanced Senior Seminar (Capstone)

B. Natural Science Courses
Students choose *two* sequences from 1, 2 and 3 below (15-17 credit hours)*

1. *UST 289 Physical Geography*
   EVS 302 and EVS 303 Biological Features of Ecosystems and Lab

2. *CHM 251/256 College Chemistry I and Lab*
   CHM 255 Environmental Chemistry or CHM 407

3. *PHY 221 College Physics I or PHY 241*
   PHY 470 Environmental Physics

**Students pursuing the 4+1 BA + MA must take the PHY sequence.*

C. Tracks

Students choose one track from below and select four courses (16 credit hours).

1. Environmental Planning and Sustainable Development (16 credit hours)
   - ENV 440 Environment and Human Affairs
   - ENV 441 Environmental Planning
   - ENV 442 Environmental Finance and Capital Budgeting
   - UST 301 Urban Development
   - *UST 434 Intro to GIS

   **required course*

2. Environmental Management (16 credit hours)
   - ENV 440 Environment and Human Affairs
   - *ENV 442 Environmental Finance and Capital Budgeting
   - UST 410 Proposal Writing
   - UST 434 Intro to GIS
   - UST 435 Environmental Policy and Administration
   - UST 459 Budgeting and Policy Analysis

   **required course*

Minors

Go to Minors information website

Sustainable Urban Development Minor (20 credit hours)

- Required Courses
  - UST 300 Economics of Policy Analysis
  - UST 301 Urban Development
  - UST 434 Introduction to GIS
  - ENV 436 Urban Sustainability

- Students choose one course from the following:
  - ENV 435 Environmental Policy and Administration
  - ENV 441 Environmental Planning

Environmental Studies Minor (24 credit hours)

- Required Courses
  - UST 200 Introduction to Urban Studies
  - ENV 435 Environmental Policy and Administration

- Required Natural Science Course (choose one):
  - ENV 259 Natural History of Cleveland Area
  - GEO 100/101 Introduction to Geology and Laboratory
  - UST 289 Physical Geography

- Students choose three courses from the following:

- ENV 436 Urban Sustainability
- ENV 440 Environment and Human Affairs
- ENV 441 Environmental Planning
- ENV 442 Environmental Finance and Capital Budgeting
- UST 403 Cartography and Graphics
- UST 434 Introduction to GIS

Nonprofit Administration

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- Minor
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- NAD Courses
- Go to Urban Affairs website

Nonprofit Administration (B.A.)
At-a-Glance

Degree granted: Bachelor of Arts

Hours required for major: 34

Articulation Agreements: human services, community health management

Advising: designated college adviser: phone: 216-687-2138

Student organizations: Urban Studies Association, Pi Alpha Alpha

Additional Information:

Internship opportunities are available to all students; scholarships are available to qualified students. All required courses are available in the evening. Students with substantial prior learning experience may apply for credit through the Assessment and Accreditation of Prior Learning Experience program. Opportunities to participate in small seminar groups, research projects, and online courses are available. Students should consult their advisers for assistance in planning their course of study.

Major Field Requirements

Nonprofit Administration majors are required to complete a minimum of 34 credit hours from the following courses:

A. **Required Courses** (28 credit hours):
   - UST 300 Economics of Policy Analysis
   - UST 302 Contemporary Urban Issues
   - NAD 410 Proposal Writing
   - NAD 433 Negotiation and Conflict Management
   - NAD 451 Fundraising and External Relations for Nonprofit Organizations
   - NAD 452 Management of Urban and Nonprofit Organizations
   - NAD 456 Fundamentals of Nonprofit Administration and Leadership

B. **Electives** (6-8 credit hours) chosen from:
   - ENV 435 Environmental Policy and Administration
   - MKT 301 Introduction to Marketing
   - MLR 321 Organizational Behavior
   - SWK 300 Social Welfare Policy
   - SWK 303 Human Behavior and Social Environments

- NAD 380 Urban Family Development
- NAD 453 Managing Urban Diversity
- NAD 455 Gender and Leadership
- UST 419 Neighborhood Planning

Nonprofit Administration Minor (20 credit hours)

- Go to Minors information website

- Required Courses:
  - UST 200 Introduction to Urban Studies
  - NAD 451 Fundraising and External Relations for Nonprofit Organizations
  - NAD 456 Fundamentals of Nonprofit Administration and Leadership

- Students choose two courses from the following:
  - ENV 435 Environmental Policy and Administration
  - UST 302 Contemporary Urban Issues
  - NAD 410 Proposal Writing
  - NAD 433 Negotiation and Conflict Management
  - NAD 452 Management of Urban and Nonprofit Organizations
  - NAD 455 Gender and Leadership

Organizational Leadership

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- Major-Field Requirements
- Go to Urban Affairs website

Organizational Leadership (B.A.)
At-a-Glance

Degree granted: Bachelor of Arts

Hours required for major: 38-39

Advising: Students are advised in the college offering their chosen track--urban studies track, 216-687-2138; management track, 216-687-3729, -3732; or communication track, 216-687-4635.

Additional Information: The Bachelor of Arts in Organizational Leadership is a multidisciplinary program of study for those interested in leadership theory and practice. The program prepares students to assume leadership roles in organizational settings in the public, private and nonprofit sectors.

The degree program is a joint venture of the Levin College of Urban Affairs, the Monte Ahuja College of Business, and the School of Communication. Students apply to the Levin College, where the major is housed. Graduation applications are processed through the Levin College, as well as student petitions regarding college and major field requirements, readmission, transfer credit evaluation appeals, late withdrawal, late registration, and credit-hour overload.

Internship opportunities are available to all students; scholarships are available to qualified students. Required courses are available both day and evening. Students in the urban studies track with substantial prior learning experience may apply for credit through the Assessment and Accreditation of Prior Learning Experience program (216-687-4506). Opportunities to participate in small seminar groups, research projects, and online courses are available. Students should consult their advisers for assistance in planning their course of study.

Major Field Requirements

A. Core Courses
(22 credit hours)

- COM 341 Group Processes and Leadership
- COM 448 Managing Organizational Teams
- MLR 321 Organizational Behavior
- MLR 340 Human Resources Management
- UST 404 Urban Data Analysis
- UST 453 Managing Urban Diversity

B. Concentrations
*One Writing Across the Curriculum (WAC) course must be completed in the specialized track. WAC Courses are marked with an asterisk.

- **Communication Track** (choose 16 credit hours)

- *COM 225 Media Writing
- *COM 240 Professional Communication
- COM 331 Gender and Communication
- COM 332 Interracial Communication
- COM 346 Organizational Communication
- COM 350 Persuasion and Attitude Change
- COM 366 Communication and Conflict
- COM 379 Communication and Negotiation

- **Management Track** (choose 16-17credit hours)
  - *GAD 250 Business Communications
  - *MKT 351 Business, Society, and Government
  - MLR 342 Staffing Organizations
  - MLR 404 Organizational Theory and Design
  - MLR 447 Cross-Functional Management
  - MLR 477 Managerial Skill Development
  - UST 433 Negotiation and Conflict Management, *OR*
    COM 366 Communication and Conflict

- **Urban Studies Track** (choose 16 credit hours)
  - *UST 410 Proposal Writing
  - UST 433 Negotiation and Conflict Management
  - UST 455 Gender and Leadership
  - UST 456 Fundamentals of Nonprofit Administration and Leadership
  - *UST 458 Urban Policy
  - UST 459 Budgeting and Policy Analysis

Public Safety Management

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Public Safety Management (B.A.)
At-a-Glance

Degree granted: Bachelor of Arts

Hours required for major: 32 to 36

Articulation Agreements: fire technology, law enforcement, corrections, security administration, and emergency management

Advising: designated college adviser: phone 216-687-3884

Student Organizations: Urban Studies Association

Additional Information:

Internship opportunities are available to all students; scholarships are available to qualified students. All required courses are available in the evening. Students with substantial prior learning experience may apply for credit through the Assessment and Accreditation of Prior Learning Experience program. Opportunities to participate in small seminar groups, research projects, and online courses are available. Students should consult their adviser for assistance in planning their course of study.

Major Field Requirements

Public Safety Management majors are required to complete a minimum of 32 credit hours from the following courses:

Core Courses: (20 credit hours)

- UST 302 Contemporary Urban Issues
- PSM 433 Negotiation and Conflict Management
- PSM 451 Public Safety Management
- PSM 452 Management of Urban and Nonprofit Organizations
- PSM 453 Managing Urban Diversity

Tracks

Students choose one of the following tracks:

1. Management (13-16 credit hours)
   Students choose two courses from Group A and two courses from Group B.

- *Group A:*
  - COM 357 Principles of Public Relations
  - COM 366 Communication and Conflict
  - SWK 240 Administration of Justice
  - UST 410 Proposal Writing
  - UST 455 Gender and Leadership
  - UST 458 Urban Policy
  - UST 459 Budgeting and Policy Analysis
  - UST 473 Columbus Seminar
  - UST 474 Washington Seminar
- *Group B:*
  - PSC 311 Civil Rights and Civil Liberties
  - PSC 321 Political Violence
  - SOC 250 Introduction to Criminology
  - SOC 341 Juvenile Delinquency
  - SOC 342 Sociology of Law
  - SOC 344 U.S. Criminal Justice System
  - SOC 345 Social Control
  - SOC 346 Corporate and Governmental Deviance
  - SOC 347 Sociology of Policing
  - SOC 348 Sociology of Corrections
  - SOC 349 Women and Crime
  - SWK 342 Prisoners' Rights

OR

2. Emergency Preparedness/Homeland Security (16 credit hours)
   Students choose four courses:
   - PSC 321 Political Violence
   - UST 458 Urban Policy
   - UST 493 Urban Issues: Emergency Preparedness *
   - UST 493 Urban Issues: Environmental Compliance*
   - UST 493 Urban Issues: Organizational Security *

*Credit awarded for completion of specific Continuing Education courses; see adviser for details.

Urban Studies

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Urban Studies (B.A.)
At-a-Glance

Degree granted: Bachelor of Arts

Hours required for major: 36

Tracks: urban and regional planning, public management, environmental policy and management, and personally-designed track.

Articulation Agreements: public management, public safety management, environmental health and safety, community health management, paralegal studies, and human services

Advising: designated college adviser: phone: 216-687-3884

Student organizations: Urban Studies Association, Pi Alpha Alpha, American Planning Association Student Chapter

Additional Information:
Internship opportunities are available to all students; the Columbus Seminar and Washington Seminar provide on-site involvement in government in action; scholarships are available to qualified students; all required courses in the major are available in the evening; students with substantial prior learning experience may apply for credit through the Assessment and Accreditation of Prior Learning Experience program.

Opportunities to participate in small seminar groups, research projects, community engagement, and Cooperative Education are available. Students majoring in Urban Studies should consult their adviser for assistance in planning their course of study.

Major Field Requirements

Urban Studies majors are required to complete a minimum of 36 credit hours from the following courses.

A. Core courses (16 credit hours):

- UST 290 Urban Geography
- UST 300 Economics of Policy Analysis

- UST 302 Contemporary Urban Issues
- UST 489 Advanced Senior Seminar

B. **Tracks**

Students select one track from 1 through 4 below (20 credit hours) or a Degree Completion program area if transferring with a degree from a community college.

1. Urban and Regional Planning

Urban planners use their skills in research, design, and development to effect social goals in cities. The urban and regional planning track helps students use the heritage of urban planning to influence urban and regional development. Planners analyze a range of data regarding an area—the economic base, the needs of the people, the available resources, and the effects of change—and make recommendations for action.

Required courses (8 credit hours):

- UST 301 Urban Development
- UST 418 Urban Planning

Electives – Students choose three courses (12 credit hours):

- UST/ART 374 American Architecture
- UST/ART 375 Cities and Planning
- UST 403 Cartography and Graphics
- UST 419 Neighborhood Planning
- UST 420 Urban Design Seminar
- UST 433 Negotiation and Conflict Management
- UST 434 Geographic Information Systems
- UST 436 Urban Sustainability
- UST 441 Environmental Planning
- UST 476 Historic Preservation
- UST 477 Regional Planning
- UST 478 Cleveland Sacred Landmarks

2. Public Management

Public managers develop budgets, strategic plans, policies, and programs for a variety of public and private organizations. The public management track gives students basic management techniques and analytic skills necessary to manage effectively in an urban environment

Required courses (8 credit hours):

- UST 452 Management of Urban and Nonprofit Organizations
- UST 459 Budgeting and Policy Analysis

Electives – Students choose three courses (12 credit hours):

- UST 410 Proposal Writing
- UST 433 Negotiation and Conflict Management
- NAD 451 Fundraising and External Relations for Nonprofit Organizations
- UST 453 Managing Urban Diversity
- UST 455 Gender and Leadership

- UST 458 Urban Policy
- UST 473 Columbus Seminar
- UST 474 Washington Seminar

3. **Environmental Policy and Management**
   This track is designed to give students an understanding of the economic, political, and social changes necessary for improving the quality of the physical environment in cities. Courses focus on domestic environmental policies and programs, environmental design, and issues related to sustainable development.

   Required courses (8 credit hours):
   - ENV 435 Environmental Policy and Administration
   - ENV 436 Urban Sustainability

   Electives – Students choose three courses (12 credit hours):
   - ENV 259 Natural History of the Cleveland Area
   - UST 289 Physical Geography
   - ENV 440 Environment and Human Affairs
   - ENV 441 Environmental Planning
   - ENV 442 Environmental Finance and Capital Budgeting
   - UST 458 Urban Policy
   - UST 459 Budgetary Policy

4. **Personally-Designed Track**
   Students may design their own track with their adviser, with the permission of the Director of Undergraduate Studies (five courses, 20 credit hours). Examples of personally-designed tracks are: historic preservation, economic development, Geographic Information Systems, and community health management.

Degree Completion Programs

- Go to Degree Completion Programs information and transfer guide page

For community college transfer students with A.A., A.A.S. and A.A.B. degrees the following degree completion programs may be completed with technical credits transferred into the Levin College.

Public Management

(For transfer students from public administration programs)

Public Safety Management

(For transfer students from law enforcement, corrections, security administration, emergency management, and police and fire science programs)

Environmental Policy

(For transfer students from environmental health and safety technology programs)

Community Health Management

(For transfer students from nursing programs)

Paralegal Studies

(For transfer students from paralegal studies programs)

Students who have earned an AAB in Paralegal Studies can earn the BA, Urban Studies by completing the following program.

- Completion of all University and College requirements, including a minimum of 128 semester hours, 36 hours at the upper division (300-400 level), and 30 hours in residency, with a grade point average of 2.00 or better.
- Clearance of foreign language deficiency, if any.
- 28 credit hours as follows:
    - UST 300 Economics of Policy Analysis
    - UST 290 Urban Geography
    - UST 302 Contemporary Urban Issues
    - UST 489 Advanced Senior Seminar
    - UST 410 Proposal Writing
    - UST 433 Negotiation and Conflict Management
    - UST 459 Budgeting and Policy Analysis

Human Services

(For transfer students from human services programs)

Minors

- Go to Minors information website

Sustainable Urban Development Minor (20 credit hours)

- Required Courses
    - ENV 436 Urban Sustainability
    - UST 300 Economics of Policy Analysis
    - UST 301 Urban Development
    - UST 434 Introduction to GIS

- Students choose one course from the following:
    - ENV 435 Environmental Policy and Administration
    - ENV 441 Environmental Planning

Urban Studies Minor (20 credit hours)

- Required Course:
    - UST 200 Introduction to Urban Studies

- Students choose two courses from the following:
    - UST 290 Urban Geography
    - UST 300 Economics of Policy Analysis

- UST 301 Urban Development
- UST 404 Urban Data Analysis
- UST 433 Negotiation and Conflict Management
- UST 453 Managing Urban Diversity

- Students choose one concentration from the following (8 credit hours):
  - Urban and Regional Planning
    - UST 418 Introduction to Urban Planning
    - UST 420 Urban Design Seminar

  - Public Management
    - UST 452 Management of Urban and Nonprofit Organizations
    - UST 459 Budgeting and Policy Analysis

  - Historic Preservation
    - UST 476 Historic Preservation
    - UST 478 Cleveland Sacred Landmarks

Certificate in Urban Geographic Information Systems

Certificate in Public Management

Certificate in Sustainable Urban Development

- Go to Certificate information website

Maxine Goodman Levin College of Urban Affairs

On this page:

- Back to College
- Urban Studies
- Nonprofit Administration
- Environmental Studies
- Sustainable Urban Development
- Go to Levin College Minors website

Minor Programs

Students in any discipline may elect to minor in Urban Studies, Nonprofit Administration, Environmental Studies, or Sustainable Urban Development.

- Go to Minors information website

Urban Studies Minor (20 credit hours)

- Required Courses:
  - UST 200 Introduction to Urban Studies
- Students choose two courses from the following:
  - UST 290 Urban Geography
  - UST 300 Economics of Policy Analysis
  - UST 301 Urban Development
  - UST 404 Urban Data Analysis
  - UST 433 Negotiation and Conflict Management
  - UST 453 Managing Urban Diversity
- Students choose one concentration from the following (8 credit hours):
  - Urban and Regional Planning
    - UST 418 Introduction to Urban Planning
    - UST 420 Urban Design Seminar
  - Public Management
    - UST 452 Management of Urban and Nonprofit Organizations
    - UST 459 Budgeting and Policy Analysis
  - Historic Preservation
    - UST 476 Historic Preservation
    - UST 478 Cleveland Sacred Landmarks

Nonprofit Administration Minor (20 credit hours)

- Required Courses:
  - UST 200 Introduction to Urban Studies
  - NAD 451 Fundraising and External Relations for Nonprofit Organizations
  - NAD 456 Fundamentals of Nonprofit Administration and Leadership
- Students choose two courses from the following:
  - ENV 435 Environmental Policy and Administration
  - UST 302 Contemporary Urban Issues
  - NAD 410 Proposal Writing
  - NAD 433 Negotiation and Conflict Management
  - NAD 452 Management of Urban and Nonprofit Organizations
  - NAD 455 Gender and Leadership

Environmental Studies Minor (24 credit hours)

- Required Courses:
  - UST 200 Introduction to Urban Studies
  - ENV 435 Environmental Policy and Administration
- Required Natural Science (choose one):
  - ENV 259 Natural History of Cleveland Area
  - GEO 100/101 Introduction to Geology and Laboratory
  - UST 289 Physical Geography
- Students choose three courses from the following:
  - ENV/UST 436 Urban Sustainability
  - ENV 440 Environment and Human Affairs
  - ENV 441 Environmental Planning
  - ENV 442 Environmental Finance and Capital Budgeting
  - UST 403 Cartography and Graphics
  - UST 434 Introduction to GIS

Sustainable Urban Development Minor (20 credit hours)

- Required Courses:
  - UST 300 Economics of Policy Analysis
  - UST 301 Urban Development
  - UST 434 Introduction to Geographic Information Systems
  - ENV 436 Urban Sustainability
- Students choose one course from the following:
  - ENV 435 Environmental Policy and Administration
  - ENV 441 Environmental Planning

On this page:

- Back to College
- About the Certificate
- Go to GIS Certificate information website

Urban Geographic Information Systems (Certificate) **(12 credit hours)**

The Undergraduate GIS Certificate Program consists of the following required four-credit courses:

- UST 403 Cartography and Graphics
- UST 434 Introduction to Geographic Information Systems
- UST 486 GIS Capstone Seminar

It is strongly recommended that students take these classes in the order listed above.

Any student eligible to take undergraduate courses at Cleveland State University may enroll in the GIS courses on a space-availability basis. Students must have a B (3.0) average across all courses and earn a B or better in UST 486 to earn the certificate.

Public Management (Certificate) (16 credit hours)

The Public Management certificate program consists of four four-credit hour courses, two required, and two electives.

Required Courses:

- UST 452 Management of Urban and Nonprofit Organizations
- UST 453 Managing Urban Diversity

Electives:

The student chooses two courses from the following:

- UST 410 Proposal Writing
- UST 433 Negotiation and Conflict Management
- NAD 451 Fundraising and External Relations for Nonprofits
- NAD/UST 456 Fundamentals of Nonprofit Administration and Leadership
- UST 459 Budgeting and Policy Analysis

Sustainable Urban Development (Certificate) (16 credit hours)

The Sustainable Urban Development certificate program consists of four required courses.

Required Courses:

- UST 300 Economics of Policy Analysis
- UST 301 Urban Development
- UST 434 Introduction to Geographic Information Systems
- ENV 436 Urban Sustainability

Urban Studies and Public Administration

On this page:

- Back to College
- At-a-Glance
- Admission Requirements
- B.A. Program
- M.P.A. Program
- Other UST Programs
- UST Courses
- Go to Urban Affairs website

Five-Year Bachelor of Arts in Urban Studies + Master of Public Administration Program (B.A.; M.P.A.)

At-a-Glance

Degrees granted: Bachelor of Arts and Master of Public Administration

Advising: designated college adviser for Phases I and II, phone: 216-687-3884; for Phase III, phone: 216-523-7522

Student organizations: Urban Studies Association, Pi Alpha Alpha

Additional Information:

The five-year B.A.+ M.P.A. is a fast-track program designed for high-performing undergraduates in Urban Studies. By accelerating the completion of two degrees, students will jumpstart their careers as professionals in public administration.

Admission Requirements

Students submit an application for admission to the BA+MPA program through the Urban Studies advising office. A complete application is comprised of the 4+1 application form, official Graduate Record Exam scores, and two letters of recommendation from faculty.

Minimum qualifications: 90 hours earned, grade-point average of 3.25 or better, GRE scores at the 40th percentile (verbal and quantitative combined) and an Analytical Writing score of 4.0 or better, plus completion of core competencies (economics, public policy and statistics) by earning a grade of B or better in UST 300, UST 301, UST 302, and UST 404, or their transfer equivalents.

B.A. Program

Phase I

Upper Division College Requirements (8 credit hours)

- UST 404 Urban Data Analysis
- UST 405 Methods of Research and Evaluation

Required Courses (16 credit hours)

- UST 300 Economics of Policy Analysis
- UST 290 Urban Geography
- UST 302 Contemporary Urban Issues
- UST 489 Senior Seminar

Public Management Required Courses (27 credit hours)

- UST 452 Management of Urban and Nonprofit Organizations
- UST 458 Urban Policy
- UST 459 Budgeting and Policy Analysis
- PAD 515 Introduction to Public Administration
- PAD 517 Public Administration and the Political Process
- PAD 518 Public Human Resources Management
- *Plus one chosen from:*
    - UST 410 Proposal Writing
    - UST 433 Negotiation and Conflict Management
    - UST 471 Cleveland Seminar
    - UST 473 Columbus Seminar
    - UST 474 Washington Seminar
    - UST 494 Levin Chair Seminar

Phase II Transition

- UST 490 Urban Internship (4 cr.)
- PAD 516 Public Finance and Economics
- PAD 5XX Public Administration Elective (3-4 cr.)

The B.A. in Urban Studies is awarded with 128 credit hours earned and completion of all General Education, college and major-field requirements. The cumulative GPA must be at least 3.0 with B or better in all 500-level courses.

M.P.A. Program

Phase III

MPA Requirements

Core (8 credit hours)

- PAD 601 Applied Quantitative Reasoning I
- PAD 604 Organizational Behavior

Complete one specialization chosen from:

General Public Management (10-12 credit hours minimum)

- PAD 635 Public Sector Information Management (required)
- Elective (3-4 cr.)
- Elective (3-4 cr.)

City Management (11 credit hours minimum)

- PAD 619 Seminar in City Management
- PAD 633 Budget Policy and Management
- PAD 634 Ethics in the Public Sector

The M.P.A. degree is awarded upon completion of a minimum of nine courses taken during Phase II (B.A.) and Phase III (M.P.A.) for a minimum of 33 credit hours. All Graduate College and M.P.A. Program rules regarding academic standing and graduation apply.

Environmental Studies

On this page:

- B.A. Program
- M.A. Program
- Other Environmental Studies Programs
- ENV Courses
- Go to Urban Affairs website

Five-Year Bachelor of Arts in Environmental Studies + Master of Arts in Environmental Studies (B.A.; M.A.)
At-a-Glance

Degrees granted: Bachelor of Arts and Master of Arts

Advising: designated college adviser for Phases I and II, phone: 216-687-3884; for Phase III, phone: 216-523-7522

Student organizations: Urban Studies Association

Additional Information:

The five-year B.A.+ M.A. is a fast-track program designed for high-performing undergraduates in the Environmental Studies program. By accelerating the completion of two degrees, students can jumpstart their careers as professionals in environmental management, environmental planning or other related fields.

Admission Requirements

Students submit an application for admission to the BA+MA program through the Urban Studies advising office. A complete application is comprised of the 4+1 application form, official Graduate Record Exam scores, and two letters of recommendation from faculty.

Minimum qualifications: 90 hours earned, grade-point average of 3.25 or better, GRE scores at the 40th percentile (verbal and quantitative combined) or higher, and an Analytical Writing score of 4.0 or higher, plus completion of core competencies with grades of B or higher in UST 300, UST 404, ENV 435, and CVE 450, or their transfer equivalents.

B.A. Program

Phase I

Required Natural Sciences (33 credit hours)

- BIO 200/201 Intro to BIO I and Lab
- BIO 202/203 Intro to BIO II and Lab
- CHM 251/256 College Chemistry I and Lab
- CHM 252/257 College Chemistry II and Lab
- ENV 259 Natural History of the Cleveland Area
- GEO 100/101 Intro to Geology and Lab
- PHY 221 College Physics I (5 hrs.)

- UST 289 Physical Geography

Upper Division College Requirements (8 credit hours)

- UST 404 Urban Data Analysis*
- UST 405 Methods of Research and Evaluation

Major-Field Requirements (36 credit hours)

- UST 300 Economics of Policy Analysis*
- UST 434 Intro to Geographic Information Systems
- ENV 435 Environmental Policy and Administration*
- ENV 436 Urban Sustainability
- ENV 489 Advanced Senior Seminar
- ENV 553 Environmental Planning*
- CVE 450 Environmental Technology* (3 hrs.)
- ENG 509 Technical Writing* (2 hrs.)
- EVS/GEO 506 Ecosystem Science* (3 hrs.)
- PHY 570 Environmental Physics*

Phase II Transition

- ENV 490 Environmental Internship (4 cr.)
- PAD 516 Public Finance and Economics* (4 hrs.)
- ENV 550 Environment and Human Affairs* (4 hrs.)

The B.A. in Environmental Studies is awarded with 128 credit hours earned and completion of all General Education, college and major-field requirements. The cumulative GPA must be at least 3.0 with B or better in all 500-level courses.

*must earn B or better

M.A., Environmental Studies

Phase III

Core (12 credit hours)

- ENV/UST 595 Environmental Seminar (1 hr.)
- UST 601 Applied Quantitative Reasoning I (4 hrs.)
- ENV 652 Environmental Policy and Administration (4 hrs.)
- LAW 671 Environmental Law and Regulation (3 hrs.)

Electives (6-8 credit hours)

Exit Requirement (4 credit hours)

- UST 698 Exit Project

The M.A. in Environmental Studies is awarded upon completion of a minimum of nine graduate courses taken during Phase II (B.A.) and Phase III (M.A.) for a minimum of 30 credit hours. All Graduate College and M.A. in Environmental Studies program rules regarding academic standing and graduation apply.

Nonprofit Administration

On this page:

- Admission Requirements
- B.A. Program
- M.N.A.L. Program
- Other NAD Programs
- NAD Courses
- Go to Urban Affairs website

Five-Year Bachelor of Arts in Nonprofit Administration + Master of Nonprofit Administration and Leadership (B.A.; M.N.A.L.)
At-a-Glance

Degrees granted: Bachelor of Arts and Master of Nonprofit Administration and Leadership

Advising: designated college adviser for Phases I and II, phone: 216-687-3884; for Phase III, phone: 216-523-7522

Student organizations: Urban Studies Association

Additional Information:

The five-year B.A.+ M.N.A.L. is a fast-track program designed for high-performing undergraduates in the Nonprofit Administration program. By accelerating the completion of two degrees, students can jumpstart their careers as professionals in the nonprofit sector.

Admission Requirements

Students submit an application for admission to the BA+MNAL program through the Levin College advising office. A complete application is comprised of the 4+1 application form, official Graduate Record Exam scores, and two letters of recommendation from faculty.

Minimum qualifications: 90 hours earned, grade-point average of 3.25 or better, GRE scores at the 40th percentile (verbal and quantitative combined) or higher, and an Analytical Writing score of 4.0 or better, plus completion of core competencies with grades of B or higher in UST 300, UST 302, UST 404, and NAD 451, or their transfer equivalents.

B.A. Program

Phase I

Upper Division College Requirements (8 credit hours)

- UST 404 Urban Data Analysis*
- UST 405 Methods of Research and Evaluation

Required Courses (28 credit hours)

- UST 300 Economics of Policy Analysis*

- UST 302 Contemporary Urban Issues*
- NAD 433 Negotiation and Conflict Management
- NAD 451 Fundraising and External Relations for Nonprofit Organizations*
- NAD 452 Management of Public and Nonprofit Organizations
- PAD 518 Public Human Resources Management*
- NAL 550 Fundamentals of Nonprofit Administration and Leadership*

Restricted Elective (3-4 credit hours)

Choose from:

- ENV 435 Environmental Policy
- UST 419 Neighborhood Planning
- NAD 453 Managing Urban Diversity
- NAD 455 Gender and Leadership
- UST 494 Levin Chair Seminar
- SWK 303 Human Behavior and Social Environments

Phase II Transition

- NAD 490 Urban Internship (4 cr.)
- PAD 516 Public Finance and Economics*
- NAL 510 Proposal Writing*

The B.A. in Nonprofit Administration is awarded with 128 credit hours earned and completion of all General Education, college and major-field requirements. The cumulative GPA must be at least 3.0 with B or better in all 500-level courses.

*must earn B or better

M.N.A.L. Program

Phase III

M.N.A.L. Requirements

Core (11-12 credit hours)

- NAL 602 Applied Quantitative Reasoning II (4 hrs.) OR
  SWK 675 Program Evaluation (3 hrs.)
- NAL 604 Organizational Behavior (4 hrs.)
- NAL 652 Financial Administration and Control of Nonprofits

Electives (minimum 6 credit hours)

Exit Requirement (4 credit hours)

- NAL 656 Advanced Topics in Nonprofit Management

The M.N.A.L. degree is awarded upon completion of a minimum of eight graduate courses taken during Phase II (B.A.) and Phase III (M.N.A.L.) for a minimum of 30 credit hours. All Graduate College and M.N.A.L. Program rules regarding academic standing and graduation apply.

Maxine Goodman Levin College of Urban Affairs

Albert A. Levin Chair of Urban Studies and Public Service

The Albert A. Levin Chair of Urban Studies and Public Service was the first endowed chair established at Cleveland State University. The chair is dedicated to the memory of Albert A. Levin, a Cleveland attorney involved in commercial real estate who was committed to the preservation of the city as a vital center.

The general purpose of the Levin Chair is to attract leading professionals in the field of urban affairs to Cleveland State University. The chair holder is involved with both the community and university, acting as a catalyst in relating the resources of the university to the needs and problems of the urban community.

Activities of the chair holder are directed toward providing diverse public lectures and engaging in significant research and problem solving with faculty, students, and community groups. The following distinguished individuals have held the Albert A. Levin Chair of Urban Studies and Public Service: David O. Meeker, deceased (1977-'78), Wolf Von Eckardt, deceased (1978-'79), Sarah Short Austin (1980-'81), Martin Rein, (1981-'82), Paul R. Porter, deceased, Edgar A. Rose (1982-'84), Wilbur R. Thompson (1984-'86), Phillip L. Clay (1987-'88), David Perry (1989-'90), James Banovetz (1991-'93), Robert J. Waste (1994-'95), Camilla Stivers (1996-'03), Janet Kelly (2003-'05) and Jeffrey L. Brudney (2007-present).

Maxine Goodman Levin College of Urban Affairs

Levin College Forum

The Levin College Forum is a focal point and catalyst for thoughtful public debate, innovative thinking, new ideas, and timely action addressing the critical urban issues that impact Northeast Ohio, the state, and the nation. All Forum programs are open to the community and Cleveland State University students, faculty, and staff. The work of the forum is based on the premise that an informed and engaged citizenry is a valuable asset for the region's future growth and prosperity. In 2005, the Forum was recognized by Northern Ohio Live as "a springboard for economic and social progress throughout the region" and in 2003 received the national CivicMind award for its Millennium Program, which worked with area high school students to introduce them to careers in public service.

The Urban Center

For nearly 30 years, CSU's Urban Center has served as the focal point of research and public service in Ohio. The Urban Center draws on the talented pool of scholars at CSU's Levin College of Urban Affairs, long considered a leader in City Management and Urban Policy. It is the largest resource in the state dedicated to urban policy research.

The mission at the heart of CSU’s Urban Center is developing innovative, quantifiable solutions to challenges communities face today. Students have opportunities to work with faculty and staff in The Urban Center and related initiatives of the Levin College. These include major programs in community and economic development, public management and finance, leadership and organizational development, and data and information services.

Research Areas

Community Planning and Development

The Center for Community Planning and Development’s mission is to strengthen the practice of planning and community development through independent research, technical assistance, and civic education and

engagement. The Center works in partnership with public, private and non-profit organizations, local governments, and development and planning professionals.

Economic Development

The Center for Economic Development conducts research and offers technical assistance on urban and regional economic issues of interest to local, state, and national policymakers. Primary focus areas include regional economic analysis, regional indicators, economic impact analysis, innovation and entrepreneurship, manufacturing competitiveness, and the role of urban universities in regional development.

Public Management and Finance

The Center for Public Management provides technical assistance to State of Ohio departments, local governments, civic groups, and nonprofit organizations in such areas as strategic planning and fiscal analysis. It houses the Great Lakes Environmental Finance Center, one of ten university centers established by the United States Environmental Protection Agency (USEPA) to help create sustainable environmental systems in the public and private sectors. The Center for Nonprofit Policy and Practice was founded in 2001 to support and foster the health of the nonprofit sector in our region through training and technical assistance that support the role of nonprofits in civil society; scholarly and applied research; and undergraduate and graduate education in the leadership and management of nonprofit organizations.

Demographic and Geographic Data and Analysis -- NODIS

The Northern Ohio Data Information Service (NODIS) is a U.S. Census Bureau affiliate and provides census and other data resources to the public. It also provides mapping and GIS services, data, and training. Services include standard and customized community profiles, demographic analysis, census tract look-up guides, demographic and environmental mapping, geocoding, and database and websitedevelopment. GIS training includes ESRI certified instruction as well as MapInfo workshops and customized training. It is one of the Census Bureau's three regional data centers in the state of Ohio.

Professional and Leadership Development

Leadership Development

The Center for Leadership Development’s purpose is to create learning programs that fulfill the lifelong learning needs of both practicing and aspiring public leaders by developing their personal skills and organizational capacity for leadership. The center integrates theory, applied research, and models in order to advance the public leadership programming of the Levin College of Urban Affairs.

Ohio Center for the Advancement of Women in Public Service

The Ohio Center for the Advancement of Women in Public Service was founded to promote the advancement of careers of women in public service within the executive, legislative, and judicial branches of government at the national, state, and local levels. Key functions of the center are to produce research on the state of women's careers in public service, identify particular barriers to the movement of women into positions of authority and leadership, and devise strategies to address these barriers.

School of Nursing

On this page:

Degree granted: Bachelor of Science in Nursing

Overview: The program is available to men and women who have been admitted to Cleveland State University and the School of Nursing. High-school graduates and licensed practical nurses who fulfill admission requirements are considered for admission to the program. The RN to BSN track is designed for registered nurses. The accelerated track is open only to students who already have a bachelor's degree in a non-nursing field. This track permits qualified students to take nursing major courses at a fast pace to obtain a second bachelor's degree.

The baccalaureate nursing curriculum includes courses from the liberal arts and sciences and the professional Nursing major. The liberal arts component provides a foundation of knowledge from the natural and behavioral sciences and the humanities. The Nursing major provides students with the opportunity to develop attitudes, values, and skills essential for the practice of professional nursing.

Students develop the ability to use a conceptual framework to implement the nursing process with clients. The baccalaureate nursing program prepares graduates to use critical thinking and therapeutic nursing interventions to provide direct and indirect care to individuals, families, groups, and communities. Clinical experience is provided in a variety of community-based settings: hospitals, ambulatory and long-term care facilities, and community health agencies in the Greater Cleveland area.

The purposes of the program are to prepare graduates for professional nursing practice, for undertaking graduate study in nursing, and for leadership in health care. Graduates are committed to the health and well-being of people and demonstrate respect for their dignity, worth, cultural diversity, and autonomy. The baccalaureate nursing curriculum provides learning opportunities that foster the development of self-direction, creativity, analytical thinking, and discriminative judgment.

Admission to major, Basic Track: Admission is selective and will be granted only after successful completion of prerequisite courses. The application process uses multiple methods to evaluate candidates including, but not limited to, essays, references and interviews. A minimum overall GPA of 2.50 and a 2.75 average in prerequite courses are required to apply. . Applications to the School of Nursing for fall semester must be submitted by March 1. (Students should apply for admission to the university four to six weeks prior to application to the School of Nursing.)

For early admission:

Those students with an overall GPA of 3.25 and prerequisite GPA of at least 3.25 with no grade lower than a B may apply for consideration of early admission status. Deadline for receipt of applications for early admission is January 1.

RN to BSN Track: Three semester program for registered nurses with an associate’s degree or diploma in nursing. All theory nursing courses for the RN are online. There are two courses with field experience and the preceptor based clinical in the last semester, which requires a total of 90 hours over a 12 week period.

Accelerated Track: Admission is selective and is granted to persons who hold at least a bachelor's degree in a non-nursing field and who have completed the prerequisite courses. These students follow the same nursing sequence as the basic track students.

Nursing

On this page:

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- At-a-Glance
- Program Requirements
- Courses
    - Elective Courses
    - Prerequisite Courses for Basic Students
    - Prerequisite Courses for R.N. Students
    - Support Courses for Basic Students
    - Support Courses for R.N. Students
    - Nursing Courses for Basic Students
    - Nursing Courses for R.N. Students
- NUR Courses
- Go to School of Nursing website

Nursing (B.S.N.)
At-a-Glance

Minimum hours required in the major: 69 hours for basic students, 30 hours for R.N. students

Advising: There are recruiter/advisers for prospective students; phone 216-687-3598 . Faculty serve as advisers for students in the major.

Student organization: Student Nurse Association (SNA)

Membership and Accreditation: The School of Nursing is a member of the Council of Baccalaureate and Higher Degree Programs and the American Association of Colleges of Nursing.

The School of Nursing offers an undergraduate curriculum in professional nursing leading to the Bachelor of Science in Nursing (B.S.N.). The professional nursing curriculum is approved by the Ohio Board of Nursing, and is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC, 20036-1120.

Nursing Program Requirements

Pre-Nursing Program for Basic Students

Persons interested in the nursing program must first complete an application to Cleveland State University, listing their college choice as School of Nursing and intended major as Nursing.

Prospective students are encouraged to attend an information session or to make an appointment with one of the school's recruiter/advisers to discuss the nursing program and to plan a course of study. Prerequisite courses may be completed throughout the summer the year admission is sought.*

*Students with a prerequisite GPA of 3.25 or above may apply by January 1 and will be considered for early admission. Such students will be notified of their admission status by the end of February.

Admission to the Nursing Major

Admission to the Nursing major is selective and is granted on a competitive basis. Selection of students for the Nursing major is based on a number of criteria including prerequisite and overall grade-point averages, essays, interviews and related health-care experience. The number of available spaces in the program is limited. Students are notified of their acceptance by the end of the spring semester. Students not admitted may formally reapply to the program for admission in the following year. Students who are accepted and who choose not to enter the program in the year for which they have been accepted will not be deferred to the following year. They must reapply to the program. Prior acceptance does not guarantee acceptance at a later date.

All admission requirements must be completed prior to beginning the Nursing major. Admission requirements include the following:

1. Admission to Cleveland State University and the School of Nursing. CSU Admissions Applications are available through the Office of Admissions and should be submitted by February 1, which is one month prior to the School of Nursing application deadline (March 1). Students must be matriculated to CSU before they can be accepted by the School of Nursing.
2. All application materials for fall-semester admission to the nursing program must be submitted to the School of Nursing by March 1 of that year. Applications for all Nursing programs are available in the School of Nursing and on the School of Nursing's website.
3. Completion of all prerequisite courses by fall semester with a prerequisite grade-point average of 2.75 or above and at least a C in each prerequisite course. Please note that all former grades earned in prerequisite courses are factored into the prerequisite GPA. Students who have more than two failing grades may not meet admission criteria.
4. Successful completion of two of the following science courses by the end of fall semester prior to submitting an application: BIO 264/265, BIO 266/267, BIO 268/269, CHM 251/256, CHM 252/257.
5. A cumulative overall grade-point average of 2.50 or above in all course work.
6. Attending an information session or speaking with the recruiter/adviser.
7. English for Speakers of Other Languages (ESOL): Students who have received their secondary or tertiary education in a language other than English will be required to contact the English as a Second Language Program in the College of Education and Human Services and arrange for additional prerequisites that must be completed by the student prior to enrollment in the nursing program.
8. Candidates who have satisfied all other requirements for admission and who are competitively placed for admission will be interviewed.

Transferring From Other Nursing Programs

Students previously enrolled in a nursing program at another institution who are interested in transferring to Cleveland State University should contact the recruiter/adviser to begin a transcript evaluation. Acceptance of transfer students into the university's nursing program depends on the student's profile, prior standing in the previous nursing school, a nursing GPA above 2.5 each term in the nursing major from the previous school, and space availability. The level of the program into which the student transfers (sophomore, junior, or senior) depends on the evaluation of previous nursing course work by the Admission, Progression, and Academic Standard Committee of the School of Nursing.

Students accepted via transfer must complete a minimum of 20 semester credits in the Nursing major at CSU. Students who need to complete a nursing course at Cleveland State in order to graduate from another institution will be reviewed on an individual basis.

Licensed Practical Nurses

LPNs follow the basic student sequence but may have the opportunity to test out of selected skill portions of the curriculum.

Registered Nurse Students

Admission requirements include:

1. Completion of items 1 to 3, 5 to 7 from above Current active Ohio license as a Registered Nurse

Credit for previous nursing course work will be awarded based on the school's participation in Ohio Nursing Articulation Model Agreements among Ohio Nursing Schools. Graduates from schools of nursing outside of Ohio will have their prior nursing course work evaluated on an individual basis.

Required Courses:

Elective Courses

The school offers several elective courses that are open to all university students. These include NUR 345, NUR 379 and NUR 498.

Prerequisite Courses for Basic Students

All prerequisite courses must be completed prior to entry into the program in the fall semester. The prerequisite GPA is composed of all grades earned in the following courses:

- BIO 264/265 Introductory Microbiology, Medical
- BIO 266/267 Anatomy and Physiology, Human I
- BIO 268/269 Anatomy and Physiology, Human II
- *CHM 251/256 College Chemistry I
- CHM 252/257 College Chemistry II
- ENG 101 English I
- ENG 102 English II
- MTH 116 (or higher)
- PSY 101 Principles of Psychology

Prerequisite Courses for R.N. Students

All prerequisite courses must be completed prior to entry into the program in the fall semester. The prerequisite GPA is composed of all grades earned in the following courses:

- BIO 264/265 Introductory Microbiology, Medical
- BIO 266/267 Anatomy and Physiology, Human I
- BIO 268/269 Anatomy and Physiology, Human II
- CHM 251/256 College Chemistry I
- CHM 252/257 College Chemistry II
- ENG 101 English I
- ENG 102 English II
- PSY 101 Principles of Psychology

AND
one of the following courses in statistics:

- MTH 147Statistical Concepts with Applications
- COM 303 Communication Inquiry/Behavioral Science Statistics
- PSY 311 Quantitative Methods
- SOC 354 Quantitative Sociologic Research

Support Courses for Basic Students

Support courses are prerequisite or co-requisite to nursing courses. Their content is required for courses in the nursing curriculum. They may be completed at any time prior to the nursing course for which they are prerequisite. See Course Descriptions section of this catalog for required sequence.

- PHL 240 Health Care Ethics
  AND
- one of the following courses in statistics:
  - MTH 147
  - COM 303 Communication Inquiry/Behavioral Science Statistics
  - PSY 311 Quantitative Methods
  - SOC 354 Quantitative Sociological Research
  - EDF 470 Statistics for Health and Human Services

Support Courses for R.N. Students

Support courses are co-requisite to nursing courses. Their content is required for courses in the nursing curriculum. They may be completed at any time prior to the nursing course for which they are prerequisite. See Course Descriptions section of this catalog for required sequence.

- PHL 240 Health Care Ethics

Nursing Courses for Prelicensure Students (Basic and Accelerated Tracks)

- NUR 200 Theory and Professional Practice
- NUR 215 Fundamentals of Nursing Practice
- NUR 216 Fundamentals of Nursing Practice - Clinical
- NUR 218 Nursing Pharmacology
- NUR 219 Pathophysiology for Nurses
- NUR 220 Health Assessment
- NUR 221 Health Assessment - Laboratory
- NUR 225 Medical Surgical Nursing I
- NUR 226 Medical Surgical Nursing I - Clinical
- NUR 300 Nursing Leadership and Management or NUR 350 Nursing Leadership and Management
- NUR 305 Medical Surgical Nursing II
- NUR 306 Medical Surgical Nursing II - Clinical
- NUR 310 Nursing Research or NUR 360 Nursing Research
- NUR 312 Psychiatric Mental Health Nursing
- NUR 313 Psychiatric Mental Health Nursing - Clinical
- NUR 325 Pediatric Nursing
- NUR 326 Pediatric Nursing - Clinical
- NUR 380 Maternal Newborn Nursing
- NUR 382 Maternal Newborn Nursing - Clinical
- NUR 412 Community Health Nursing

- NUR 414 Community Health Nursing - Clinical
- NUR 415 Medical Surgical Nursing III
- NUR 416 Medical Surgical Nursing III - Clinical
- NUR 420 Professional Role Practicum
- NUR 425 Professional Role Preparation

Nursing Courses for Registered Nurse Students

- NUR 340 Theory and Professional Practice
- NUR 341 Advanced Placement for Nursing Leadership Experience
- NUR 345 Computer Literacy
- NUR 346 Professional Writing and Communication
- NUR 350 Nursing Leadership and Management
- NUR 360 Nursing Research or NUR 310 Nursing Research
- NUR 408 Gerontological Nursing
- NUR 409 Gerontological Nursing - Clinical
- NUR 430 Professional Seminar
- NUR 440 Community Health Nursing
- NUR 441 Community Health Nursing - Clinical
- NUR 460 Professional Role Practicum

The RN to BSN program can be completed in three consecutive semesters. Clinicals for R.N.s are scheduled during two courses. They are designed to enhance the students' professional development and to provide new learning opportunities.

Course Descriptions and Index

On this page:

- General Course Information
- Course Numbering System
- Course Abbreviations
- Course Index by Subject Name

Undergraduate Catalog
College Information

- Monte Ahuja College of Business
- College of Education and Human Services
- Fenn College of Engineering
- Cleveland-Marshall College of Law
- College of Liberal Arts and Social Sciences
- College of Science
- Graduate College
- Maxine Goodman Levin College of Urban Affairs

Courses by Course Code | Courses by Subject Name

General Course Information

Course descriptions in this section are coded as follows:

1. Course abbreviation and number
2. Course title
3. Parenthesized numerals, e.g., (4-0-4), indicate, in order, the classroom hours, the laboratory hours, and the semester credit value of each course

Prerequisites, if any, are indicated at the beginning of the course description. These have been established to assure an adequate and uniform background for students in advanced classes.

Occasionally, students may feel they already have the appropriate background for an advanced course because of previous training, transfer credits, or credit by examination. In such cases they must consult the chairperson of the particular department about the advisability of omitting the prerequisite.

The 300- and 400-level courses in the College of Liberal Arts and Social Sciences may not be taken by freshmen except with the written permission of the instructor.

Course Numbering System

100- and 200-Level: Lower Division

300- and 400-Level: Upper Division

500-Level and Higher: Graduate

Index to Courses

Course Abbreviations (Course Codes)	Subject Index

A | B | C | D | E | F | G | H
I | J | K | L | M | N | O | P-Q
R | S | T | U | V | W | X-Y | Z
 	
• (ACT) Accounting
• (AF) Aerospace Studies
• (ANT) Anthropology
• (ARB) Arabic
• (ART) Art
• (ASC) Introduction to University Life
• (BIO) Biology
• (BLW) Business Law
• (BST) Black Studies
• (BUS) Business (Special Topics)
• (CHE) Chemical Engineering
• (CHM) Chemistry
• (CHN) Chinese
• (CIS) Computer and Information Science
• (CLM) Classical and Medieval Studies
• (COM) Communication
• (CSC) Career Services
• (CVE) Civil and Environmental Engineering
• (DAN) Dance Program
• (DBA) Doctor of Business Administration (no undergraduate classes)
• (DRA) Dramatic Arts
• (ECE) Early Childhood Education
• (ECN) Economics
• (EDB) Education Curriculum and Foundations
• (EDC) Multi-Age Instruction
• (EDE) CASAL: Individual Projects
• (EDH) HPERD Special Topics
• (EDL) Literacy Development and
	A | B | C | D | E | F | G | H
	I | J | K | L | M | N | O | P-Q
	R | S | T | U | V | W | X-Y | Z
	
	• Accounting
	• Aerospace Studies (Air Force ROTC)
	• Anthropology
	• Arabic
	• Art
	  ◦ Studio Art
	  ◦ Art Education
	  ◦ Art History
	• Biology
	• Black Studies
	• Business Law
	• Business Special Topics
	• Career Services
	• Chemical Engineering
	• Chemistry
	• Chinese
	• Civil Engineering
	• Classical and Medieval Studies
	• Communication
	(includes Communication Management, Journalism and Promotional Communication, Film and Digital Media courses)
	• Computer and Information Science
	  ◦ Computer Science
	  ◦ Information Systems
	• Dance
	• Dramatic Arts
	• Economics
	• Education
	  ◦ Curriculum and Foundations
	  ◦ Individual Projects in CASAL
	  ◦ Specialized Study and Field Experiences
	  ◦ Teacher Education
	  ▪ Early Childhood Education
	  ▪ Literacy Development and Instruction
	  ▪ Middle Childhood Education
	  ▪ Multi-Age Instruction
	  ▪ Secondary Education
	  ▪ Special Education
	• Electrical and Computer Engineering
	• Engineering Science
	• Engineering Technology

Instruction
- (EDM) Middle Childhood Education
- (EDS) Secondary Education
- (EDU) Doctoral Education (no undergraduate classes)
- (EEC) Electrical and Computer Engineering
- (EET) Electronic Engineering Technology
- (ENF) English Translations of Foreign Literatures
- (ENG) English
- (ENV) Environmental Studies
- (ESC) Engineering Science
- (ESE) Special Education
- (ESL) English as a Second Language
- (EST) Specialized Study and Field Experiences
- (EUT) CSUTeach
- (EVS) Environmental Science
- (FIN) Finance
- (FRN) French
- (GAD) General Administration
- (GEO) Geology
- (GER) German
- (GET) General Engineering Technology
- (GRK) Greek
- (HCA) Health Care Administration
- (HED) Health (HPER)
- (HIS) History
- (HON) Honors
- (HPR) Core Curriculum (HPER)
- (HSC) Health Sciences
- (IME) Industrial and Manufacturing Engineering
- (INB) International Business
- (IST) Information Systems
- (ITN) Italian
- (JPN) Japanese
- (LAT) Latin
- (LAW) Law (no undergraduate classes)
- (LIN) Linguistic Studies
- (MBA) Master of Business Administration (no undergraduate classes)
    - Electronic Engineering Technology
    - General Engineering Technology
    - Math for Engineering Technology
    - Mechanical Engineering Technology
- English
    - Freshman English and Basic Composition
    - Basic Writing Courses
    - Freshman English Courses
    - Sophomore-Level Courses
    - Upper-Division Courses
        - Courses on Writing and Composition Theory
        - Linguistics Courses
        - Literature Courses
- English as a Second Language Courses
- English Translations of Foreign Literatures
- Environmental Engineering
- Environmental Science
- Environmental Studies
- Finance
- French
- General Administration
- Geology
- German
- Greek
- Health Care Administration
- Health, Physical Education, Recreation, and Dance
    - Dance
    - Health Education
    - HPR Core
    - Physical Education Professional Courses
    - Physical Education Service Courses
    - Special Topics
- Health Sciences
- History
- Honors
- Industrial and Manufacturing Engineering
- Information Systems
- International Business
- Introduction to University Life (Liberal Arts and Social Sciences)
- Italian
- Japanese
- Latin
- Linguistics
- Management and Labor Relations
- Marketing
- Mathematics
    - Preparatory Courses
    - Courses for Humanities, Business, Education, and Social Sciences
    - Courses for Mathematics, Science, Engineering, and Computer Majors
- Mechanical Engineering
- Military Science (Army ROTC)

- (MCE) Mechanical Engineering
- (MET) Mechanical Engineering Technology
- (MKT) Marketing
- (MLA) Modern Languages
- (MLR) Management and Labor Relations
- (MPH) Master of Public Health (no undergraduate classes)
- (MSC) Military Science
- (MTH) Mathematics
- (MTT) Math for Engineering Technology
- (MUA) Applied Music
- (MUS) Music
- (NAD) Nonprofit Administration
- (NUR) Baccalaureate Nursing Program
- (OSM) Operations Management and Business Statistics
- (PAD) Public Administration (no undergraduate classes)
- (PDD) Urban Planning Design and Development (no undergraduate classes)
- (PED) Physical Education — Professional
- (PES) Physical Education — Service
- (PHL) Philosophy
- (PHY) Physics
- (PSC) Political Science
- (PSM) Public Safety Management
- (PSY) Psychology
- (REL) Religious Studies
- (SCI) College of Science
- (SLN) Slovenian
- (SOC) Sociology
- (SPH) Speech and Hearing
- (SPN) Spanish
- (SWK) Social Work
- (THE) Theatre
- (UST) Urban Studies
- (WST) Women's Studies

- Modern Languages
- Music
    - Applied Music
- Nonprofit Administration
- Nursing, Baccalaureate
- Operations Management and Business Statistics
- Philosophy
- Physics
- Political Science
- Psychology
- Public Safety Management
- Religious Studies
- ROTC
    - Air Force
    - Army
- Science, College of
- Social Work
- Sociology
- Spanish
- Speech and Hearing
- Urban Studies
- Women's Studies

Accounting Courses

On this page:

- Faculty
- Course Descriptions
- To Accounting Major
- Back to Course Index

Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: Jayne Fuglister, Bruce McClain (Chair), Heidi Meier, Peter Poznanski; **Professors Emeritus:** Elise Jancura, Lawrence Kreiser, David Meeting, Abba Spero; **Associate Professors:** Theresa Holt, Etzmun Rozen, Scott Yetmar; **Assistant Professors**: Paul Lee, John Geekie, Laura Rickett; **Instructors:** Renee Castrigano, Daniel Kaminsky (Internship Director), Frank Klaus, Phil Thornton, Paul Schwin

Course Descriptions

ACT 221 Introductory Accounting I (3-0-3). Prerequisite: Sophomore standing. Fundamentals of accounting theory, concepts, and practice; includes the basic structure of accounting and accounting as it is used as a basis for business decisions, measuring business income; introduces the concept of accounting systems and control.

ACT 222 Introductory Accounting II (3-0-3). Prerequisite: ACT 221. A continuation of the fundamentals of accounting theory, concepts, and practice pertaining to various forms of business organizations, such as partnerships and corporations; measurement and control of costs as viewed in a departmental operation and interpretation of financial data and statements.

ACT 321 Cost Accounting I (3-0-3). Prerequisites: ACT 222. Introduces the basics of cost (managerial) accounting which apply to service, merchandising, and manufacturing firms. Covers job order and process costing, cost-volume-profit analysis, activity-based costing, variable costing, budgeting, standard costing systems and variance analysis, decision making using managerial accounting information, and related topics in addition to analytical and communications skills.

ACT 331 Intermediate Accounting I (4-0-4). Prerequisites: ACT 222. Focuses financial accounting and the statements of financial accounting concepts; reviews the accounting cycle, development of income statement, statement of retained earnings, the balance sheet, and time value of money concepts; accounting for current financial assets, inventory, plant assets, and intangible assets; accounting for current and long-term liabilities.

ACT 332 Intermediate Accounting II (4-0-4). Prerequisite: ACT 331. Continuation of financial accounting concepts covered in ACT 331; covers accounting for equity, investments, leases, taxes, pensions, and accounting changes; earnings per share; statement of cash flows and related topics.

ACT 361 Tax I (4-0-4). Prerequisites: ACT 222. Comprehensive examination of federal income taxation of individuals; emphasis on tax planning and recognition of tax problems.

ACT 388 Accounting Systems (3-0-3). Prerequisites: ACT 331. Business systems as viewed by the accounting professions: system analysis, flow-charting, and system design from a range of firms with a minimum of electronic and mechanical devices to firms employing the most sophisticated types of electronic data-processing equipment; emphasis on business system design to accumulate and communicate information to officials controlling the activities of the enterprise.

ACT 422 Cost Accounting II (3-0-3). Prerequisite: ACT 321. Continuation of ACT 321; covers capital budgeting, just-in-time inventory concepts, throughput accounting, performance evaluation, transfer pricing, balanced scorecard, and related topics.

ACT 441 Advanced Accounting (4-0-4). Prerequisite: ACT 332. Parent and subsidiary accounting; accounting aspects of business combinations and consolidations; accounting for estates, trusts, and insolvency; multinational accounting; and governmental and nonprofit accounting.

ACT 451 Auditing (4-0-4). Prerequisites: ACT 332. Audit approach; planning and procedure; treatment of adjustments and irregularities; preparing worksheets and final statements.

ACT 453 Information Systems Auditing (3-0-3). Prerequisite: ACT 451 or ACT 455, ACT 388. Problems of accuracy and control in computer-oriented applications; changing audit techniques, especially loss of traditional audit trail opportunities; control problems of direct access and real-time systems.

ACT 455 Internal Auditing (3-0-3). Prerequisite: ACT 222. The philosophy and practice of modern internal auditing techniques with emphasis on providing managers with definitive information about situations which might interfere with the accomplishment of the organization's goals and with feedback concerning extraordinary accomplishments.This course will NOT fulfill the audit content requirement to sit for the Ohio CPA examination.

ACT 456 Advanced Auditing Topics (3-0-3). Prerequisite: ACT 451 or ACT 455. The advanced topics in auditing include, but are not limited to, the use of quantitative methods, sampling methods, statistical sampling, analytical procedures, operational auditing, employee and management fraud, and audit administrative issues.

ACT 460 International Accounting (3-0-3). Prerequisite: ACT 222. A broad-based course that provides an understanding of the international dimensions of accounting. The course will include topics in financial and managerial accounting, auditing and, to a lesser extent, taxation and transfer pricing issues. In addition to the mechanics, comparative accounting systems and the process of the harmonization of accounting standards will be discussed. An examination of current international accounting literature will augment specific topic discussions.

ACT 462 Tax II (3-0-3). Prerequisite: ACT 361. Income taxation of corporations, partnerships, estates, and trusts; federal, estate and gift taxes; state and local taxes; methodology of researching complex tax problems.

ACT 484 Governmental and Institutional Accounting (3-0-3). Prerequisites: ACT 222. Accounting principles, standards, and procedures applicable to enterprises operated not-for-profit; covers governmental units, institutions such as universities and hospitals, charitable organizations, fraternal organizations, religious groups, and clubs.

ACT 490 Professional Internship (1 to 3 credits). Prerequisites: ACT 331, junior standing, permission of internship director. Three months of supervised practical experience with a public accounting firm or the accounting department of an industrial firm. Term report required.

ACT 493 Special Topics in Accounting (1 to 3 credits). Prerequisites: Senior standing and permission of Instructor and Department Chair. Explores current issues or special topics in accounting. Topics and course requirements will be announced by the department.

ACT 491 Independent Study (1 to 3 credits). Prerequisites: ACT 332 and approval of sponsoring faculty and department chairperson. Flexible course content/structure to enable qualified students to pursue areas of interest and competency; opportunity for independent study, field research, or other special assignments.

ACT 499 Honors Thesis in Accounting (3 credits). Prerequisite: Restricted to senior Accounting honors students. The Honors Thesis requires the honors student to conduct a piece of original research in accounting under the supervision of an Accounting faculty member. The thesis will be presented orally and submitted as a written report.

Air Force ROTC (Aerospace Studies) Courses

On this page:

- To Aerospace Studies Program
- Back to Course Index

Course Descriptions

AF 101 The Foundation of the U.S. Air Force I (1 hour). Survey course providing an introduction to the U.S. Air Force and ROTC. Officership and military customs and courtesies are discussed. Foundations of Air Force communications are covered.

AF 102 The Foundation of the U.S. Air Force II (1 hour). Survey course looking at the origin and organization of the Air Force. Selected topics contributing to an understanding of the Air Force are covered.

AF 103, 104, 203, 204, 303, 304, 403, 404 Leadership Laboratory (1 hour each). An instruction program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management.

AF 201 Evolution of U.S. Air Force Air and Space Power I (1 hour). Survey course to examine air and space power from a historical perspective. Course covers early flight and World War I to the Korean War and ICBMs.

AF 202 Evolution of U.S. Air Force Air and Space Power II (1 hour). Survey course to examine air and space power from a historical perspective. Course covers period from the Vietnam War to the Global War on Terror and the Air Force today.

AF 301 Leadership Studies I (3 hours). Study basic leadership skills, including problem solving, team building, motivation, group conflict management, and situational leadership, as well as communication skills.

AF 302 Leadership Studies II (3 hours). Study advanced skills in leadership, including effective supervision, counseling, authority, responsibility, accountability, and ethical and moral leadership in the military.

AF 401 Defense Studies/Preparation for Active Duty I (3 hours). This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine.

AF 402 Defense Studies/Preparation for Active Duty II (3 hours). Topics focus on preparation for military service after commissioning and current issues affecting the Air Force way of life.

Classes to Register for Each Term

Freshman Fall Term: AF 101 (1), AF 103 (1)
Freshman Spring Term: AF 102 (1), AF 104 (1)

Sophomore Fall Term: AF 201 (1), AF 203 (1)
Sophomore Spring Term: AF 202 (1), AF 204 (1)

Junior Fall Term: AF 301 (3), AF 303 (1)
Junior Spring Term: AF 302 (3), AF 304 (1)

Senior Fall Term: AF 401 (3), AF 403 (1)
Senior Spring Term: AF 402 (3), AF 404 (1)

Freshmen and sophomores take 2 hours of ROTC courses each semester.

Juniors and seniors take 4 hours of ROTC courses each semester.

Anthropology Courses

On this page:

- Faculty
- Course Descriptions
- To Anthropology Major
- Back to Course Index

Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professor Emeritus: Willis E. Sibley; **Associate Professors:** Paul L. Aspelin (Chairperson), Peter S. Dunham, Barbara G. Hoffman, Robert P. Mensforth, Ronald A. Reminick; **Associate Professor Emerita:** Lauren A. Corwin; **Associate Professor Emeritus:** John W. Lallo.

Course Descriptions

ANT 100 Human Diversity (4-0-4). Exploration of human biological and cultural diversity, with special emphasis on the U.S. experience. General principles of diversity are developed and then applied to key diversity issues in the U.S., such as the African American education gap, "Ebonics," affirmative action, reverse discrimination, reparations, transgender hate crimes, same sex marriage, official English, immigration, Holocaust revisionism, Islam and the U.S., and the status of women, the elderly, and the disabled, among others. Students gain valuable insights to help them negotiate the complexities of diversity in the U.S. and world today.

ANT 101 Human Biocultural Evolution (4-0-4). Students are introduced to the fundamental principles of organic evolution. These are applied to survey and interpret critical anatomical and behavioral adaptations that characterize the earliest primates to modern humans. Factors involved in the origin of broad spectrum intelligence, tool use, and culture are considered relative to patterns of modern human biological and cultural variation.

ANT 102 Study of Culture (4-0-4). Introduction to the ways in which anthropologists study living cultures and languages and the foundation for further study in cultural and linguistic anthropology. Materials from a number of the world's cultures and languages are presented through lectures, demonstrations, videos, and films.

ANT 103 Ancient Civilizations (4-0-4). Introduction to the prehistoric archaeology of Old World civilizations, with a focus on Mesopotamia, the Indus Valley, Egypt, and the British Isles; course includes an examination of current research methods in archaeology as well as contemporary interpretations and theories in the field.

ANT 120 Introduction to Language and Linguistics (4-0-4). This course provides an introduction to the properties of human languages and to their systematic study in the field of linguistics. It provides the groundwork for future studies of language and communication in a broad range of disciplines: linguistics, modern languages, ESL, communication, sociolinguistics, and anthropological linguistics. It is assumed that students have had no prior course work or exposure to linguistics and will begin with the basic assumptions that are shared by those who study language from a variety of perspectives. Cross-listed with LIN 120.

ANT 150 Comparative American Slavery (4-0-4). This course takes an anthropological approach to the comparative analysis of slavery across cultural, historical and geographical backgrounds. The course specifically seeks to expand our understanding of the experiences of slavery in North America involving the European/American exploitation of Africans and Native Americans by looking at other socio-historical situations of slavery in Africa, Asia, and the pre-Columbian Americas for comparison and contrast.

ANT 153 Introduction to African Cultures (4-0-4). Introduction to the multiple cultures of contemporary Africa from a number of different perspectives: African intellectuals, Africanist scholars, and ordinary Africans. A video series on the history, lifestyles, religions, politics, environment, and multicultural conflicts of the continent is balanced with the

perspectives of other Africans and Africanists on similar topics as represented in readings, discussions, and ethnographic films and videos. Foreign Culture course.

ANT 171 Native Civilizations of the Americas (4-0-4). Introduction to the major cultural achievements of the New World, with an examination and comparison of cultural development in four separate geographical areas: the Mississippi and Ohio Valley regions (e.g., the Adena, Hopewell, and Mississippian cultures), the American Southwest (e.g., the Pueblo and Anasazi), Mesoamerica (e.g., the Olmec, Maya, and Aztecs), and the Andes of South America (e.g., the Moche, Nazca, and Inka).

ANT 210 Introduction to Native American Studies (4-0-4). Course provides an introductory overview of the interdisciplinary field of Native American Studies. It is required for the minor in Native American studies and as such, provides the intellectual foundation for further work in the field. The course explores the complexity and diversity of the contemporary Native American experience, through the anthropological, cultural, historical, and literary sources of First Nations Peoples in North, Middle, and South America.

ANT 221 Culture and Human Sexuality (3-0-3). An examination of the importance of culture for understanding human sexuality, especially as it affects health. Topics covered include biological, social, emotional, cognitive, and spiritual issues related to sexuality. Contemporary political, legal, and health issues are discussed critically. Cross-listed with HSC 201.

ANT 227 Power, Authority & Society in Nonwestern Communities (4-0-4). Examination of the ways selected groups of Asian, African, and Latin American societies organize themselves with respect to power and authority to cope with common social problems. Attention given to how change in political organization takes place. Cross-listed with HIS/PSC 227. Foreign Culture course.

ANT 243 Language and Gender (4-0-4). Students are encouraged to take ANT 100 Human Diversity, or ANT 102 Study of Culture, or ANT 120 Introduction to Language and Linguistics before taking this course, but no prerequisite is assumed or required. This course explores how ways of speaking and ideas about gender are linked within minority and dominant cultures in the U.S. and beyond.

ANT 260 Language, Culture and Society (4-0-4). Overview of the study of language in its cultural and social contexts. Topics may include the formation and maintenance of speech communities, variation of language within and across speech communities, how languages change in contemporary social contexts, the range of uses of language in social context, the verbal arts, oral folklore, and the development of writing systems. This course does not presume a background in either linguistics or anthropology. Cross-listed with LIN 260.

ANT 270 African-American Culture (4-0-4). Focus on the social and cultural ecology of contemporary black communities in America; includes an examination of how cultural history shapes present activities, attitudes, and beliefs. Specific topics include family organization, sex roles, child development, and social and religious movements.

ANT 275 Ancient Mysteries (4-0-4). Course examines some of the great mysteries of the human past. It explores unconventional claims, including the ancient astronauts' assertion, the idea that a number of early civilizations were founded by alien visitors from outer space. It debunks these notions and considers the historical, social, economic, political, religious, racist, and even psychological motives behind them. Real wonders of the ancient world are also surveyed, such as Easter Island, Machu Picchu, Stonehenge, and the Great Zimbabwe. In the process, students learn the basic scientific concepts and approaches of anthropology and archaeology.

ANT 276 Anthropology and Science Fiction (4-0-4). Anthropology and science fiction both seek to expand our vision by examining either parts of our world that we know little about (in the case of anthropology) or other worlds that exist in our fantasies or imaginations (in the case of science fiction). This course examines how each proceeds in this attempt through an examination of their interrelationships in subject, vision, and manner. The course involves reading and analysis of text and exegesis in both the "anthropology of science fiction" (i.e., the analysis of science fiction using anthropology) and the "science fiction of anthropology" (i.e., the creation of science fiction involving anthropological subjects and material).

ANT 280 Anthropology of Adulthood and Aging (4-0-4). The nature and processes of adulthood and aging are examined in a cross-cultural perspective. Examination of differences in culture, ethnicity, environment, and ecology as they influence the experience of growing old in selected modern and traditional societies around the world.

ANT 293 Topics in Anthropology (4-0-4). Topics reflect material of special or timely interest, such as food and culture, multimedia software, Mesoamerican art, expressive culture, the anthropology of music, forensics, and human anatomy. May be repeated up to 12 credit hours when topics vary.

ANT 301 Biological Anthropology (4-0-4). Prerequisite: ANT 101 Human Biocultural Evolution or equivalent. Emphasis on two fundamental areas of human biological evolution: human population genetics and reproductive fitness and the adaptive significance of contemporary human biological variation. Topics explore the extent to which environmental factors such as geographic location, climate, attitude, diet and disease influence the growth, development, nutritional status, and demographic characteristics of extant human groups.

ANT 302 Archaeology (4-0-4). Prerequisite: ANT 101 Human Biocultural Evolution. A detailed consideration of archaeology, its principal methods and issues today. Major themes include the nature of archaeology, its history, and field and laboratory techniques, along with ethical and other topics, such as looting, the conflict between archaeologists and native peoples over human remains, and graduate and career opportunities in the field. Emphasis is placed on illustrating these subjects via their application to real archaeological problems and data.

ANT 303 Cultural Anthropology (4-0-4). Prerequisite: ANT 102 Study of Culture. Overview of the developmental history of method and theory in social and cultural anthropology. Topics include structural-functionalism, symbolic anthropology, cultural materialism, structuralism, and post-modernism. The methodology of ethnographic fieldwork is also addressed in detail.

ANT 304 Linguistic Anthropology (4-0-4). Prerequisite: ANT 102, Study of Culture, or ANT/LIN 120, Introduction to Language & Linguistics, or ENG 311, Elements of Linguistics, or permission of instructor. Introduction to the study of language, culture, and society. Topics include principles of linguistic analysis (phonetics, phonology, morphology, syntax, and semantics), the ethnography of speaking, quantitative sociolinguistics, language contact and change, language and expressive culture, and language and gender.

ANT 305 Quantitative Anthropology (3-2-4). Sampling, research methods, and practical applications of parametric and non-parametric statistical procedures to anthropological analysis.

ANT 310 Human Osteology (4-0-4). Introduction to the structure and function of the human musculoskeletal system. Familiarization with methods used in the excavation, identification, analysis, and preservation of prehistoric human skeletal remains. Includes consideration of anthropological vs. forensic perspectives, goals, and applications. Lecture content and lab exercises focus on quantitative and qualitative methods used to analyze growth and development of the skeleton, age and sex estimation, stature reconstruction, race determination, paleodemography, paleopathology, and the methods of assessing nutritional status of earlier human groups.

ANT 311 Medical Anthropology (4-0-4). Anthropological approaches to the study of disease in Western and Nonwestern societies. Emphasis on beliefs in the supernatural, folk medicine, scientific vs. non-scientific medicine, and modern approaches to epidemiology.

ANT 312 Primate Behavior (4-0-4). Focus on the marked diversity and adaptive significance of primate behavior in nature. Dietary patterns and feeding strategies, locomotor adaptations, reproductive behaviors, territoriality, social organization, predator pressure, interspecific competition, parental investment, play behavior and learning, and primate intelligence are explored within the framework of evolutionary ecology, zoology, and geographic distribution. The extent to which primate behavior studies shed light on the evolution of human behavior is also examined.

ANT 313 Human Paleontology (4-0-4). Fossil evidence of hominid evolution and the development of contemporary human origin theories are explored in a historical, ecological, and geochronological framework. Lectures consider benefits and liabilities of analogistic, deterministic, and gender-oriented models posited to explain the evolution of behavioral and anatomical characteristics unique to humans. Laboratory exercises acquaint students with methods used to identify, analyze, and interpret key morphological and behavioral trail complexes which serve as the basis for reconstructing the phylogeny of the Hominidae.

ANT 320 Anthropology of Religion (4-0-4). Study of the universal components and structures of the institutions of religion and religious experience. Comparison of the diversity of religions in the traditional and modern milieux.

ANT 321 Psychological Anthropology (4-0-4). Anthropological approach to the study of personality, emphasizing comparison of social and cultural factors that produce culturally variable attitudes and beliefs about the nature of the social, environmental, and supernatural worlds of the individual. Topics include the structure and dynamics of symbolic expression, ecologies of stability and stress, and types of adaptive and maladaptive coping processes in the contexts of social change and modernization.

ANT 322 Writing About Culture (4-0-4). Prerequisites: ENG 101 and ENG 102. Reading and analysis of first-person accounts, scientific narratives, ethnographies, ethnologies, and anthropological fiction. Examination of how various writing styles affect communication among and between social scientists.

ANT 323 Visual Anthropology (4-0-4). Students are urged to take ANT 100 Human Diversity or ANT 102 Study of Culture before taking this course. Introduction to the production and use of ethnographic videos and films in anthropological research and teaching. Course explores both theory and application; theory topics include ethics of production, issues of perspective, adequacy of representation, authorship and authority. Theoretical knowledge is applied in the editing of an ethnographic video from the instructor's field footage.

ANT 324 Anthropology of Gender (4-0-4). Students are urged to take ANT 100 Human Diversity or ANT 102 Study of Culture before taking this course. Exploration of the cultural construction of gender in a variety of human societies from an anthropological perspective. Includes an examination of the different ways in which males and females are thought of, treated, and expected to behave in different cultural settings, taking into account aspects of gender systems such as division of labor, stratification, gender roles, and their variation throughout the life cycle.

ANT 330 Proposal Writing in Archaeology (2-0-2). Co-requisite: concurrent enrollment in ANT 302 Archaeology; or (with permission of instructor) prior completion of ANT 302. Students develop and enhance their skills in writing by preparing an actual National Geographic grant proposal for an archaeological project of their choosing. They select or design their own research focus and produce an abstract, pre-application, and final proposal using the real forms employed by the National Geographic Society. They then submit their materials for peer review by other students and review the work of other students in order to gain an inside perspective on the peer review process and how to present their work to others. Skills acquired will benefit students in any grant-writing or concept-selling context.

ANT 331 North American Prehistory (4-0-4). Overview of the pre-contact archaeology of North America (i.e., the United States and Canada). Topics include the peopling of the New World, hunter-gatherers, human settlement of the Arctic, agriculturalists, and regional developments from New England and the Midwest to the Southwest and West Coast. Ample illustration is provided from the rich body of archaeological discoveries across the continent. Special attention is given to important, controversial, and recent finds, such as “Kennewick Man.”

ANT 332 World Prehistory (4-0-4). Survey of global archaeology, from the original appearance of human beings to the emergence of recorded history. This course reviews the great cultural traditions of the world and their major accomplishments, with examples from China, the Indus Valley, Mesopotamia, Egypt, Sub-Saharan Africa, Middle America, the Andes and Oceania, among others. Topics range from the peopling of the world and what happened to the Neanderthals to the development of agriculture and the rise of the state.

ANT 336 Lab Methods in Archaeology (4-0-4). An introduction to laboratory methods used in archaeological research. Topics may include preparing finds, dating them, classifying materials, compositional analysis, drafting maps, photography, conservation methods, or other techniques that comprise the modern battery of tools used by archaeologists to make sense of and preserve their discoveries. Extensive use is made of examples; emphasis is on practical application.

ANT 337 Field Methods in Archaeology (4-0-4). An introduction to archaeological field techniques. Topics may include reconnaissance and surveying methods, such as technical mapping, site locating (global positioning system/GPS), establishing a site grid, and satellite or aerial image interpretation. Excavation techniques may be covered, from test and grid units to trenches and tunnels, as well as proper recording of field data. Extensive use is made of examples; emphasis is on practical application, with special attention to overcoming the typical complications and difficulties that emerge during fieldwork.

ANT 340 Phonology (4-0-4). Prerequisites: ANT 120 or LIN 120, Introduction to Language and Linguistics or ENG 311 or LIN 311, Elements of Linguistics. Introduction to the scientific study of the sound systems of the world's living languages. Includes discussion of the basics of phonetic transcription and phonemic analysis and the development of

formal models in phonology. Topics include articulatory and acoustic phonetics, the phoneme, phonological rules and representations, non-linear models, harmony processes, prosodic morphology, and sound symbolism. Cross-listed with LIN 340.

ANT 341 Morphology and Syntax (4-0-4). Prerequisites: ANT 120 or LIN 120, Introduction to Language and Linguistics or ENG 311 or LIN 311, Elements of Linguistics. Introduction to the description and analysis of word formation processes and sentence structure from a cross-linguistic perspective. Instruction in basic morphemic analysis and constituent testing using data drawn from languages outside the Indo-European family. Also includes an introduction to typological analysis in the study of morpho-syntax. Cross-listed with LIN 341.

ANT 342 Languages in Contact (4-0-4). Introduction to the study of linguistic responses to culture contact in a variety of socio-historical contexts. Topics include language and trade, language and colonialism, pidgins and pidginization, creoles and creolization, dialect contact and the formation of koines. Cross-listed with LIN 342/MLA 342.

ANT 344 Sociolinguistics (4-0-4). Prerequisite: ANT 304 Linguistic Anthropology. An introduction to theory and method in sociolinguistics with an examination of both the quantitative and the qualitative paradigms. Quantitative sociolinguistics, also known as variation theory, correlates linguistic variation with social structure relying on the statistical treatment of data. The qualitative paradigm also examines language variation in relation to social structure but has been more traditionally concerned with language use in social context in non-Western societies.

ANT 345 Language and Meaning (4-0-4). Prerequisites: ANT/LIN 120 or ENG/LIN 311 or permission of the instructor. This course familiarizes students with a broad spectrum of key concepts, issues, and analytical tools in the study of meaning in natural language, with an emphasis on non-formalist approaches. The focus is on how linguists approach the study of natural language semantics, particularly as it influences and organizes morphosyntactic structure. To serve as a background to the course, important complementary viewpoints are briefly discussed, including traditional semantic concerns of philosophers of language, as well as semiotic perspectives on meaning and communication.

ANT 347 Maya Hieroglyphic Writing I (4-0-4). Introduction to Classic Maya writing and texts from a linguistic and anthropological perspective. Students study the origins and functions of writing in Ancient Mesoamerica, examine the relationship of spoken languages to the script, and learn to decipher, analyze and interpret Maya hieroglyphic texts for information of general anthropological and linguistic interest such as dynastic history, social organization, ritual, cosmology and belief systems. Cross-listed with LIN/MLA 347.

ANT 348 Folklore and Folklife (4-0-4). Prerequisite: ANT 102 Study of Culture. The course is an overview of the study of folklore and folklife from its beginnings in the 19th century when it emerged as an eclectic, interdisciplinary field. Following Geertz's view of culture as an assemblage of "texts," the course will examine a complex tapestry of artifactual representations including oral narrative, speech, myth, performance, drama, art, architecture, music, dance and clothing.

ANT 349 American Indian Languages (4-0-4). Prerequisite: ANT 304 or ENG 311. The objective of this course is to increase appreciation of American Indian languages understood in their various cultural contexts. It presents the language families and languages of North America and it examines the structure and functions of American Indian poetry, song, narrative, conversation, prayer and other forms of figurative language.

ANT 351 Native North Americans (4-0-4). Overview of the native North American peoples, their past and present conditions, origins, cultural variety, and their interaction with European, American, and Canadian cultures. Foreign Culture course.

ANT 352 Native South Americans (4-0-4). Overview of the indigenous cultures of South America using case studies to represent major culture areas, traditions, and questions of anthropological concern. Foreign Culture course.

ANT 353 Cultures of Africa (4-0-4). Introduction to the multiple cultures of contemporary Africa from the perspectives of African intellectuals, Africanist scholars, and ordinary Africans. Mazrui's video series on the history, lifestyles, religions, politics, environment, and multicultural conflicts of the continent is balanced against the perspectives of other Africans and Africanists on similar topics through texts, lectures, class discussions, and ethnographic films. Foreign Culture course.

ANT 354 Cultures of Oceania (4-0-4). Introduction to the extremely diverse cultural areas of Polynesia, Micronesia, Melanesia, and Australia. Topics include trade and exchange; gender relations and sexuality; culture contact and change;

indigenous land rights; totemism; political authority, language distribution and use; warfare and headhunting; expressive arts, and socialization. Foreign Culture course.

ANT 356 Ethiopia (4-0-4). Survey of the land, ecologies, peoples and cultures of Ethiopia, examining ancient and traditional ways of life as well as contemporary issues and developments. Emphasis on Abyssinia. Foreign Culture course.

ANT 357 Peoples and Cultures of Mesoamerica (4-0-4). This course provides an overview of the peoples and Cultures of Mexico and Central America that comprise the Mesoamerican culture area. Course begins with an examination of pre-Columbian civilizations and the Colonial Period before focusing on contemporary indigenous peoples, their institutions and relationships to the modern state. Using rich ethnographic accounts of contemporary Nahuatl and Maya communities we will examine gender, religious systems and world view, transformations of the economy, language and identity, and political oppression, culminating in the ongoing revitalization movements currently taking place as exemplified by the Zapatistas in Chiapas and Guatemalan Maya.

ANT 358 Caribbean Societies (4-0-4). Survey of the historical and contemporary societies of the Caribbean socio-cultural region, with primary focus on the non-Hispanic regions of the Caribbean (those areas whose colonial history is with England, France, Sweden and the Netherlands). Assumes no prior knowledge of anthropology. Foreign Culture course.

ANT 365 The Asian American Experience (4-0-4). This course deals with developing a better understanding of the evolution and settlement patterns, religious and social institutions, and help-seeking patterns of Asian Americans, one of the fastest growing visible minority groups in our society. The course will focus on Indian Americans and Chinese Americans, the two largest Asian American groups in Northeast Ohio. Other Asian groups, such as Filipinos, Japanese, Korean, Vietnamese, and other Southeastern and South Asian communities will also be highlighted, with special emphasis on Asian communities in Northeast Ohio. Cross-listed with SWK 355.

ANT 366 Native Peoples of the Southwest (4-0-4). An in-depth examination of the Southwest culture area of Native North America found primarily within Arizona and New Mexico and parts of Colorado and Nevada. The course focuses on the ethnography of the region, with a brief overview of the archaeological basis of contemporary settlement. While not strictly enforced, it is strongly recommended that students either have taken or are concurrently enrolled in ANT 351 Native North Americans.

ANT 375 Ethnographic Field Methods (4-0-4). Instruction in the methods of ethnographic observation, analysis, and description, with exposure to different research methods in ethnography and sociolinguistics. Topics covered include elicitation, social network analysis, participant observation, consultants, ethics, data management, and ethnographic writing.

ANT 385 The Anthropology of Tourism (4-0-4). An introduction to the study of tourism from the perspective of anthropology. Although the anthropology of tourism is a relatively new field of social science inquiry, its objects of study—travel, cross-cultural interaction, and culture change—are as old as the discipline of anthropology itself. Topics covered include defining tourism, typologies of tourism and tourists, the theory of tourism, tourist arts and crafts, ethnicity and heritage in tourism, sustainable tourism, eco-tourism, the social and cultural impacts of tourism, and managing tourism.

ANT 393 Area Studies in Archaeology (4-0-4). Prerequisite: ANT 101 Human Biocultural Evolution. Exploration of the principal developments, primary explanations, and main issues in the study of the prehistory and/or historical archaeology of a particular area, region, or place. Similar to area studies in anthropology courses, with emphasis on the past culture of a target area rather than its contemporary culture. Mesoamerica, the Maya area, and Belize have been covered in recent years; other areas may also be covered.

ANT 394 Area Studies in Anthropology (4-0-4). Comparative study of cultures and societies of major world areas. May be repeated up to 12 credit hours by studying different areas.

ANT 401 Forensic Anthropology (4-0-4). This course provides students with an introduction to the forensic sciences. Readings emphasize the diverse roles that forensic evidence plays in local, regional, national and international law enforcement and judicial applications. Introductory topics include forensic chemistry, pathology, dentistry, DNA fingerprinting, botany, palynology, entomology, geology, engineering, sociology, psychology, psychiatry, and forensic anthropology and archaeology. Special topics include the determination of age, sex, ancestry, and stature from human

skeletal remains along with identification of skeletal trauma, features of individuation, and applications of craniofacial reconstruction. Additional topics focus on standard death scene and crime scene methods of evidence collection used in the study of criminalistics.

ANT 435 Archaeology Field School (variable credit). Prerequisite: At least one course in anthropology. Hands-on participation in archaeological fieldwork; techniques of archaeological field reconnaissance and survey; exploration, mapping and excavation of actual archaeological remains. Recording and processing of archaeological data May be conducted at sites in different locations, consult Department for details; students are responsible for their own transportation. Credit varies by offering. May be repeated for credit for up to 12 credit hours, however no more than 6 may be counted as electives towards the Anthropology Major or Minor. .

ANT 440 Southwest Field Experience (6-0-6). Prerequisites: ANT 366 Native Peoples of the Southwest and permission of instructor. This course provides the curricular foundations for the supervised field experience in anthropology, a program that is offered annually in the second six-week summer session. There is a two-week orientation and preparation on campus followed by a four-week stay in the Southwest (New Mexico and Arizona), where students experience tourism in Native American communities.

ANT 447 Maya Hieroglyphic Writing II (4-0-4). Prerequisite: ANT 347. Building on the basic knowledge and skills learned in ANT 347, students will decipher increasingly more challenging texts in order to reach a more sophisticated understanding of Maya hieroglyphic decipherment, and its implications for understanding and revising the history of Classic Maya civilization. Cross-listed with LIN/MLA 447.

ANT 453 Advanced Studies in African Cultures (4-0-4). Prerequisite: ANT 153 or ANT 353 or permission of the instructor. Seminar-style class devoted to advanced comparative study of African cultures with specific attention to culture change in the areas of social organization, kinship, economics, ways of knowing, religions, art, music, gender roles, political systems, power and representation. Students conduct individual and group research projects on how African societies are interweaving their cultural traditions with new adaptations in the face of global pressures, influences, technologies, and trends.

ANT 493 Topics in Anthropology (4-0-4). Topics reflect material of special or timely interest, such as food and culture, multimedia software, Mesoamerican art, expressive culture, the anthropology of music, folk voices, forensics, and human anatomy. May be repeated up to 12 credit hours when topics vary.

ANT 494 Advanced Area Studies in Anthropology (4-0-4). Prerequisites: ANT 102 Study of Culture and appropriate area studies course ANT 351 through ANT 358 or ANT 366). In-depth study of specific questions of anthropological concern in a particular cultural area. Topic and area may vary with each offering. May be repeated up to 12 credit hours with different topic/area.

ANT 495 Senior Seminar in Anthropology (4-0-4). Prerequisites: Anthropology major with senior standing and permission of instructor. This course provides majors in anthropology with a capstone experience in the discipline. The course has the explicit goal of refining the analytic and expository skills that are introduced and developed in the core courses for the major. Students will also have the opportunity to apply their anthropological training and knowledge in a project that focuses on a “real world” problem that is taken from the contemporary world.

ANT 496 Independent Study in Anthropology (1-4 credits). Prerequisite: Junior standing. Written permission of instructor and chairperson is required for registration. Independent student research on selected advanced topics in anthropology under the direction of the faculty. May be repeated up to 8 credit hours when topics vary.

Arabic Courses

Faculty

Link to Profiles of Full-time Department Faculty

Professor: Tama Engelking (Chairperson); **Associate Professor**: Hebat El-Attar; **Assistant Professor:** Abed Tayyara.

Course Descriptions

Students with native experience of Arabic may not enroll for credit in 100-level courses in Arabic.

All students with training or experience in Arabic other than a previous course in that language at Cleveland State must consult a counselor in the Department of Modern Languages for assistance in deciding where to enter the Arabic sequence. Failure to seek counseling may result in schedule shifts during the first week of class.

ARB 101, 102 Arabic I, II (4-2-5). Prerequisite: ARB 101: None; ARB 102: Completion of ARB 101 with a "C" or better or permission of instructor. This course covers the essentials of Arabic usage; practice in hearing, speaking, reading, and writing. There is a lab fee.

ARB 193, 293, 393, 493 Special Topics in Arabic (1 to 4 credits). Prerequisite: Permission of instructor. This is the study of a particular topic in Arabic language, literature, or civilization. It may be repeated with a change in topic.

ARB 194, 294, 394, 494 Special Topics in Arabic (Writing) (1 to 4 credits). Prerequisite: Permission of instructor. This is the study of a particular topic in Arabic language, literature, or civilization. This may be repeated with a change in topic.

ARB 201 Intermediate Arabic I (4-0-4). Prerequisite: ARB 102 or permission of instructor. This course focuses on culture and language as well as on improving listening, speaking, reading, and writing abilities. It includes a language laboratory component in the Media Lab.

ARB 202 Intermediate Arabic II (4-0-4). Prerequisite: ARB 201 or permission of instructor. This is an ongoing review and expansion of skills development through reading short narratives, conversation and media. Readings are drawn from literary texts and articles on contemporary Middle Eastern society. It includes a language laboratory component in the Media Lab.

ARB 274 Introduction to the Middle East (4-0-4). This course is designed to introduce students to the history, religious diversity, political systems, economy, and culture of the Middle East. The course includes a brief examination of ancient Middle Eastern civilizations and its history to the world. The course also examines important historical junctures influencing the region today. It includes the contents, similarities, and diversities of Middle Eastern culture. The course examines three monotheistic religions and how Middle Easterners vary widely in their religious beliefs. It explores how this religious variance impacts Middle Eastern culture. The course introduces students to multiple aspects of the arts. The course is taught in English. It is cross-listed with HIS 274 and PSC 274.

ARB 301 Conversation and Composition (4-0-4). Prerequisite: ARB 202 or the equivalent, or permission of instructor. This course covers advanced conversation and composition in Arabic; improvement of all language skills and grammar with an emphasis on oral expression.

ARB 302 Writing and Media (4-0-4). Prerequisite: ARB 301 or the equivalent, or permission of instructor. This course covers advanced conversation and composition in Arabic; improvement of all language skills and grammar. There is writing emphasis using media related materials and topics.

ARB 335 Arab Film (4-0-4). Prerequisites: ARB 301 or ARB 302 or permission of instructor. This course uses Arab films to introduce students to major cultural features of the Arab world. Students complete reading and writing assignments in Arabic. It may be cross-listed with MLA 235.

ARB 345 Arabic Resources of Cleveland/ Service Learning (1 to 4 variable credits). Prerequisite: ARB 201 or ARB 202, or permission of instructor. This is a service learning course that complements class meetings with field study assignments to engage students with Arabic-speaking communities in the Cleveland area. Readings and writings are in Arabic. It may be cross-listed with MLA 245..

ARB 371 Introduction to Classical Arabic Literature (4-0-4). Prerequisites: ARB 301 or 302, or permission of instructor. This course introduces students to classical Arabic literature from the pre-Islamic period to the Abbasid caliphate. Works are examined in their social and historical context with an emphasis on the religio-political discourses of early Islamic society. It is taught in Arabic.

ARB 372 Introduction to Modern Arabic Literature (4-0-4).. Prerequisites: ARB 301 or ARB 302, or permission of instructor. This course is an introduction to Modern Literature in Arab societies (e.g. Morocco, Egypt, Syria), with a focus on major writers form the late 19th and 20th centuries. It is taught in Arabic.

ARB 380 Women in the Arab World (4-0-4).. Prerequisite: ARB 301 or the equivalent, or permission of instructor. The course examines women in Arab societies as portrayed in literature, film and art. It focuses on questions of identity related to topics such as family roles, religion, education, and politics. Readings and writings are in Arabic. It may be cross-listed with MLA 280.

Art Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors:, George Mauersberger,; **Associate Professors:** Samantha Baskind, Marian Bleeke, Kathy Curnow, Irina A. Koukhanova, Qian Li, Russell Revock, Richard D. Schneider, Jennifer Visocky-O'Grady(Department Chair); **Assistant Professors:** Mark Slankard. **Gallery Director:** Robert Thurmer.

Course Descriptions

Note: Nonrefundable materials fees are required for all studio courses and are paid with tuition.

Studio Art | Art Education | Art History

Studio Art

ART 102 Introduction to Two-Dimensional Art and Design (2-6-4). This course is a beginning study of basic principles of two-dimensional visual organization and skills. It includes line, value, texture, color, shape, and other elements of form as they relate to two-dimensional art and design. The course is a prerequisite for all subsequent two-dimensional studio art courses and all studio courses above 200.

ART 103 Introduction to Three-Dimensional Art and Design (2-6-4). This course is a beginning study of basic principles of three-dimensional visual organization and skills. It includes line, value, texture, color, shape, and other elements of form as they relate to three-dimensional art and design. The course is a prerequisite for all subsequent three-dimensional studio art courses and all studio courses above 200.

ART 104 Introduction to Digital Art & Design (4-0-4). This class is a broad introduction to technology as it applies to art and design. It requires no previous art experience, but is intended to be an introductory exposure to the technical skills needed to establish good working practice as a studio art major. The course consists of two in-depth projects, supporting short exercises/assignments, and two exams designed to meet the established learning objectives.

ART 211 Drawing I (2-6-4). Prerequisite: ART 102. This is a beginning study of design principles, materials, and techniques of drawing.

ART 221 Painting I (2-6-4). Prerequisite: ART 102. This is a beginning study of design principles, materials, and techniques of painting.

ART 226 Sculpture I (2-6-4). Prerequisite: ART 103. This course is a beginning study of design principles and techniques of three-dimensional visual expression with practical experience in metal casting. It requires a materials fee.

ART 231 Printmaking I (2-6-4). Prerequisite: ART 102. This is a beginning study of design principles and techniques of selected printmaking processes. It requires a materials fee.

ART 232 Photography I (2-6-4). Prerequisite: ART 102. This is a beginning study of black-and-white photography and darkroom techniques. It requires a materials fee.

ART 242 Introduction to Typographic Principles and Design (2-6-4). Prerequisite: ART 102. This course is an introduction to design aesthetics and the visual organization of information. Students focus on learning typographic and aesthetic fundamentals and then applying these principles to two-dimensional design collateral with specific themes. Current design theory and practical application are also studied in conjunction with project development.

ART 244 Introduction to Macintosh (2-6-4). Prerequisite: ART 102. This is an introduction to computer design using a Macintosh platform. The course begins by developing an understanding of the current Macintosh operating system, and with a brief introduction of technical issues related to using the computer for design purposes. The remainder of the course is devoted to studying the industry standard page layout, illustration, and photo alteration software (InDesign, Adobe Illustrator, and Adobe Photoshop). The course requires a materials fee.

ART 246 Ceramics I (2-6-4). Prerequisite: ART 103. This is a beginning study of design principles and use of ceramic materials in solving problems of three-dimensional form using hand building methods and the potter's wheel. The course requires a materials fee.

ART 311 Drawing II (2-6-4). Prerequisites: ART 103 and ART 211. This is a continued investigation into the concepts, materials, and techniques of drawing.

ART 321 Painting II (2-6-4). Prerequisites: ART 103 and ART 221. This course is a continued investigation into the concepts, materials, and techniques of painting.

ART 326 Sculpture II (2-6-4). Prerequisites: ART 102 and ART 226. This course is an investigation of three-dimensional form leading to the development of individual styles and the use of various materials. The course requires a materials fee.

ART 331 Printmaking II (2-6-4). Prerequisites: ART 103 and ART 231. The course involves a continued investigation of concepts, materials, and techniques in printmaking. It requires a materials fee.

ART 332 Photography II (2-6-4). Prerequisites: ART 103 and ART 232. This is a continued study of black-and-white darkroom techniques and concepts of photographic imagery. It requires a materials fee.

ART 344 Advanced Raster-Image Development (2-6-4). Prerequisites: ART 103, ART 242 and ART 244. This course is a comprehensive instruction on the creation of raster-based imagery using photo-manipulation software (Adobe Photoshop). Technical topics include advanced image manipulation, color issues, file management, cross-program compatibility, and production and end-usage concerns. Raster image-based design and illustration issues are also explored. There is a materials fee.

ART 345 Advanced Vector-Image Development (2-6-4). Prerequisites: ART 103, ART 242 and ART 244. This is a comprehensive instruction on the creation of vector-based imagery using illustration software (Adobe Illustrator). Technical topics include object-oriented image creation and manipulation, color issues, file management, cross-program compatibility, and production and end-usage concerns. Vector image-based design and illustration issues are also explored. There is a materials fee.

ART 346 Ceramics II (2-6-4). Prerequisites: ART 102 and ART 246. This is a continuation of formal development through the use of the potter's wheel; emphasis is placed on decoration and glaze application. There is a materials fee.

ART 405 Introduction to Museum Studies – Exhibition Planning and Design (2-6-4). Prerequisites: ART 102, 200-level art-history course. This course provides a practical overview of the concepts and practices of exhibition curating (as opposed to collections curating). The course focuses on planning and design of exhibitions. Topics include thematic development, the purpose of the exhibition, presentation philosophies, presentation aesthetics, audience analysis, facility analysis, conceptual organization, spatial organization, traffic flow, information flow, art handling, installation techniques, lighting, graphics, publications, publicity, security, and the "whole" exhibition experience.

ART 411 Drawing III (2-6-4). Prerequisite: ART 311. This is an investigation into more advanced approaches to drawing. It may be repeated an additional 16 hours.

ART 421 Painting III (2-6-4). Prerequisite: ART 321. This is an investigation into more advanced approaches to painting. It may be repeated an additional 16 hours.

ART 426 Sculpture III (2-6-4). Prerequisite: ART 326. This course places emphasis on the development of individual approaches to three-dimensional form by extensive investigation of specified project areas. It may be repeated an additional 16 hours. There is a materials fee.

ART 431 Printmaking III (2-6-4). Prerequisite: ART 331. This is an investigation into more advanced approaches to printmaking. It may be repeated an additional 16 hours. There is a materials fee.

ART 432 Photography III (2-6-4). Prerequisite: ART 332. This course is an advanced study of photographic techniques and concepts, with emphasis on development of a personal style. It may be repeated an additional 16 hours. There is a materials fee.

ART 444 Advanced Typography and Design (2-6-4). Prerequisites: ART 344. This course involves comprehensive instruction on the creation of design collateral using page layout and typesetting software (InDesign). Focus is placed on print-based media. Students study the creation and production of a design piece, from initial production schedules and creative brainstorming and problem-solving techniques to aesthetic development and modes of output. Focus is also placed on technical, aesthetic, and communication issues. Professionalism is stressed. There is a materials fee.

ART 445 Introduction to Digital Media (2-6-4). Prerequisites: ART 344. This is a broad introduction to digital media, specifically that which is used on the World Wide Web. Students study information and interface design as well as analyze the structure and content of interactive media. Projects involve the development and implementation of site architecture in conjunction with aesthetic considerations specific to the Web. There is a materials fee.

ART 446 Ceramics III (2-6-4). Prerequisite: ART 346. This is a continuation of formal development on an advanced level through the use of the potter's wheel and glaze calculation. It may be repeated an additional 16 hours. There is a materials fee.

ART 450 Design Studio Capstone (4-0-4). Prerequisite: Completion of upper division courses in Graphic Design sequence (may be taken concurrent with final 400 level course in concentration). This course serves as the capstone requirement for Studio art majors who have selected Graphic Design as their concentration. Throughout the semester we meet university capstone requirements by promoting and enhancing skills in critical thinking, information literacy, oral communication, and writing. Students spend the semester focused on the development of a professional design portfolio. All classroom activities are focused on network building, self-promotion, and professional preparation. Standards for grading are based on a variety of criteria including (but not limited to): attendance, effort, quality of research, completion of assignments, visual and technical exploration, critical analysis skills exhibited in both writing and oral presentation, and enthusiastic participation.

ART 451 Art Studio Capstone (4-0-4). Prerequisite: Completion of upper division courses in one Studio sequence (may be taken concurrent with final 400 level course in concentration). This course introduces students to professional practices as related to their major in studio art. It's designed to promote writing, critical thinking, oral communication, and assist future BA graduates in furthering their careers in the arts. Multiple career paths are discussed through practical applications based on real life requirements. Upon successful completion of this course, students from different concentrations within the department are able to face challenges outside of the academic environment.

ART 493 Special Topics in Studio Art (2-6-4). Prerequisite: For students of advanced level of expertise who have completed a 200-level studio art course. Check semester course schedule footnote for topics. The intensive study of subject or topic is announced in advance. It may be repeated for credit. There is a materials fee for some sections.

ART 496 Independent Studies in Studio Art and Design (0-2-1 or 1-3-2 or 1-5-3 or 2-6-4). Prerequisite: Written permission of instructor, 8 credit hours at advanced Level III in field of choice. This course is comprised of studio projects in advanced work. Sections are: (1) graphic design, (2) ceramics, (3) drawing, (4) painting, (5) photography, (6) printmaking, (7) sculpture, (8) other (4 credits), and (9) other (2 credits). It may be repeated for credit. There is a materials fee for some sections.

Art Education

ART 341 Valuing Processes in the Visual Arts (4-0-4). This is an exploration of art criticism and aesthetics as part of a comprehensive art education program with practical application in a PreK-12 setting.

ART 393 Special Topics in Art Education (4-0-4 or 2-6-4). This is an intensive study of a relatively narrow subject or topic to be announced in advance.

ART 396 Independent Reading and Research: Art Education (2 or 4 credit hours). Prerequisite: Written permission of instructor. This is the study of an art education topic of special interest to the particular student. The subject and plan of study is decided jointly by student and instructor. It may be repeated for credit.

ART 441 Art in Social and Vocational Contexts (4-2-4). This is an introduction to philosophical and historical issues in art education with an emphasis on alternative venues for teaching art to varied populations. It requires 20 hours on-site observation.

Art History

ART 140 The Art of the Comic (4-0-4). This course is a historical survey of the comic from 19th century European caricature to the art of the graphic novel. The course traces the history and artistic development of the comic in America from its roots, examining its growth in popularity with it's zenith in the mid-20th century, to the post paper world of the internet. The course also pays particular attention to the part played by artists and writers from Cleveland. The students use their written and oral communication skills to demonstrate what they have learned.

ART 150 Introduction to Art History and Appreciation (4-0-4). This is the study of the visual arts from the observer's point of view, with emphasis on the awareness of historical and critical functions.

ART 252 Introduction to Early Western Art (4-0-4). This course covers the history of Western art and crafts from the prehistoric era through the Middle Ages.

ART 253 Introduction to Western Art Since 1400 (4-0-4). This course covers the history of Western art and crafts from the Renaissance to the present..

ART 253H Introduction to Western Art Since 1400 - Honors (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course covers the history of Western art and crafts from the Renaissance to the present. This course focuses upon two major themes. The first is the human figure as it is expressed through various media. The second is the influence of art and science upon each other. Students complete writing assignments outside of class that demonstrate their ability to analyze and synthesize materials related to the subject matter of the course.

ART 256 History of Photography (4-0-4). This is a general survey of the history of photography from the middle of the 19th century to the present day.

ART 281 History of Far Eastern Art (4-0-4). This class covers the history of the art and crafts of China and Japan..

ART 286 Introduction to African Art (4-0-4). This course covers the history of the art and crafts of Black Africa.

ART 350 Women in Art (4-0-4). This course is a survey of women's involvement in the western tradition from the Middle Ages to the contemporary world and examines representations of women along with women as patrons and viewers of art and the work of women artists.

ART 353 Islamic Art (4-0-4). This is a survey of Islamic art from the period of the early caliphates (c. 700) to the heights of the Islamic empires (c. 1700), combined with close examinations of the issue of aniconism in the Islamic artistic tradition and of relationships between the Islamic and western traditions.

ART 354 Medieval Art (4-0-4). This is a survey of Western art from the late Roman Empire (c. 300) through the late Middle Ages (c. 1400), including architecture, manuscript illumination, metalwork, sculpture, and textile production. The

focus of the course is on the interactions of artworks and audiences in producing meaning within specific historical circumstances. Classical and Medieval Studies course.

ART 356 Gothic Art (4-0-4). This course covers the history of the art and crafts of Western Europe in the later Middle Ages.

ART 363 The Early Renaissance in Italy (4-0-4). This course covers the history of art and architecture in Italy from the rise of the city-state to the voyages of Christopher Columbus, from Giotto to Leonardo da Vinci.

ART 364 The High Renaissance and Mannerism in Italy (4-0-4). This course covers the history of art and architecture in Italy during the time of Leonardo da Vinci, Michelangelo, Raphael and their followers.

ART 365 The Renaissance in Northern Europe (4-0-4). This course covers the history of art in the court of the dukes of Flanders and of the Kings of France, from Pucelle to Bruegel.

ART 370 American Visual Culture (4-0-4). This course is a consideration of American visual culture from the late 19th through the 20th centuries, focusing on the interrelationship between artists and/or movement in traditional art media with the visual forms of American popular and mass culture. These widely divergent forms of visual culture are considered within their appropriate social and political contexts.

ART 371 Art in the 19th Century (4-0-4). This course is a survey of the major social and artistic developments of the 19th century across several national cultures - France, Germany, England, the United States, Italy - focusing on particular themes including romanticism and landscape painting; the deterioration of the distinction between "high" and "low" art forms; the transformation of Paris into the first modem metropolis; and the place of women, the "Orient," and the "primitive" within 19th-century art and society.

ART 372 Art in the 20th Century (4-0-4). This class is the survey of 20th-century modernism and visual culture in its historical context, focusing on particular national cultures - France, the United States, Mexico, Soviet Russia, Germany, Holland, Italy, England - and themes including the concept of the avant-garde, the place of the gendered body, the development of differing modes of abstraction, art censorship from fascism to the present, the role of photography and mechanization, and the rise of the postmodern.

ART 373 On the Edge: Art Since 1968 (4-0-4). This is the study of international directions in visual culture since 1968 with emphasis on the development of new media forms such as performance, conceptualism, video, film, installation, and the expansion of older ones such as photography. New contexts for exhibition and the increasing importance of race, class, gender, and sexual identity within a global culture are also discussed.

ART 374 American Architecture (4-0-4). This is an historical analysis of the built environment from the 17th century to the present. Various styles and types of buildings are related to time and place, defining and identifying central characteristics, social function, cultural expression, technology, and changes in architectural practice. It is cross-listed with UST 374.

ART 375 Cities and Planning (4-0-4). This course covers what man has done to form his communal environment since ancient times; social, symbolic, functional, biotechnical domains as generators of architecture and urban planning; value systems in environmental change; policies, plans, and design proposals as the record of the humanized environment. It is an Urban Studies course. It is cross-listed with UST 375.

ART 376 Architectural History: Great Monuments of Western Architecture in the Urban Context (4-0-4). This is an inquiry into the forms and meaning of architecture from antiquity to the present.

ART 380 Art of China (4-0-4). This course explores the art and visual culture of China (including mainland China, Hong Kong and Taiwan). The political, religious, social, and visual aspects of the art will be stressed in class. In order to understand Chinese art and civilization, students examine art objects from terra-cotta pottery of the Neolithic period, bronze vessels, Buddhist murals and sculptures of the Tang era, literati paintings and imperial tastes of medieval China up to contemporary art.

ART 383 Indian Art (4-0-4). This course covers the history of Indian art from the neolithic period through the late medieval period.

ART 384 Buddhist Sculpture (4-0-4). This course is an in-depth study of Buddhist sculpture in India and its spread to Tibet, China and Japan with special emphasis on iconography and stylistic development.

ART 385 The Hindu Temple (4-0-4). This course is a historical study of the development of the Hindu temple beginning with the simple flat-roofed Gupta structure and culminating with the multi-structured temple complexes of the 17th and18th centuries. Architectural form and iconographical program are equally stressed as well as Indo-Aryan (northern) and Dravidian (southern) styles of temple construction.

ART 386 Regional Art in Africa (4-0-4). This course examines the historical arts of a selected region of Africa from the archaeological past to contemporary movements. The course may be repeated for credit when the treated region changes. The changing areas to be treated are Western Sudan, Upper Guinea Coast, Lower Guinea Coast, Central Africa, and South and East Africa. It may be repeated for credit.

ART 388 African-American Art (4-0-4). The course covers the history of African-American art from Colonial times to the present.

ART 390 Internship (1 to 8 credit hours). Prerequisite: Written permission of supervising instructor. This is an independent learning experience involving theory and practice in a specific area of art, such as art education, art conservation, museology, and graphic or product design. Approved internships are usually with an external museum or an appropriate institution or commercial enterprise. Grading is on an S/U basis. This course cannot be substituted for other art courses in the degree requirements.

ART 394 History of Japanese Art (4-0-4). This course is a historical survey of Japanese painting, sculpture, ceramics, functional arts, and architecture from the prehistoric era to the Meiji period. It introduces students to Japanese art and culture through slide lectures, individual research projects, and group research online.

ART 475 Cleveland: Form and Development of an Urban Environment (4-0-4). This is a workshop which examines aspects of visual communication relative to the city. It is an Urban Studies course. It is cross-listed with UST 475.

ART 485 Art History: Theory and Methods (4-0-4). Prerequisites: One introductory Art History course (ART 252, 253, 256, 281, or 286) and one 300 or 400 level Art History course. This course is an examination of the various investigative and interpretive methods used by art historians. The course is divided into two parts; the first on traditional methodologies along with their contemporary critiques and the second on a range of "new" art histories. At the end of the course students are both competent in traditional methodologies and cognizant of contemporary debates within art history as a discipline.

ART 495 Art Seminar (4-0-4). Prerequisite: Written permission of instructor. This is a close examination of a topic to be selected jointly by instructor and students through research and discussion, with emphasis on artists at work in their milieu. It may be repeated for credit.

ART 497 Independent Reading and Research: Art History (1 to 4 credit hours). Prerequisite: Written permission of instructor. This is a study of a topic of special interest to the particular student; subject and plan of study to be decided jointly by student and instructor. It may be repeated for credit.

ART 499 Honors Thesis (4 to 8 credit hours). Prerequisite: Admission to the Honors Program. This involves directed research under supervision, culminating in the writing of a thesis required of honors students in art history and art education.

Arts & Sciences: Introduction to University Life Courses

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Course Descriptions

ASC 101 Introduction to University Life (1-0-1). An orientation course intended for entering freshmen.

Biology Courses

On this page:

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Faculty

Biology is part of the Department of Biological, Geological, and Environmental Sciences.

Link to Department Personnel
Link to Profiles of Full-time Department Faculty

Professors: R. Jeffrey Dean (Chair), F. Paul Doerder, Michael A. Gates, Donald G. Lindmark, Tobili Y. Sam-Yellowe, Mary Jane Saunders, Harry van Keulen; **Professors Emeriti:** Peter C. Baker, Lorry J. Brenner, Ronald L. Clise; **Associate Professors:** A. Ralph Gibson, Michael Kalafatis, Anton A. Komar, Robert A. Krebs, Barbara K. Modney, Tony Sahley, B. Michael Walton, Crystal M. Weyman, Julie A. Wolin; **Associate Professors Emeriti:** Richard C. Dickerman, Randall J. Gee, Madeline M. Hall, Sally Lewis, Jerome B. Senturia, James M. Willard; **Assistant Professors:** G. Valentin Börner, Roman Kondratov, Bibo Li, Barsanjit Mazumder, Girish Shukla, Jacqueline Vitali; **Adjunct Faculty:** Alexandru Almasan, William Baldwin, Cornelia Bergmann, Kathleen L. Berkner, Martha K. Cathcart, Clemencia Colmenares, Paul E. DiCorleto, Paul L. Fox, Karen Gerken, Yohannes Haile-Selassie, Joe Hannibal, Jaharul Haque, Corinne Hartwell, Stanley Hazen, Philip Howe, Donald W. Jacobsen, Trine Joergensen, Jeffrey Johansen, Andrew Jones, Sadashiva Karnik, Joe B. Keiper, Andrea Ladd, Cathi Lehn, Xiaoxia Li, Thomas McIntyre, Ronald J. Midura, Christine S. Moravec, Laura Nagy, Daniel R. Petit, Jun Qin, Hugh R. Quinn, Miguel E. Quinones-Mateu, Ofer Reizes, Terry Robinson, Neal S. Rote, Michael J. Ryan, Robert H. Silverman, Roy L. Silverstein, Jonathan D. Smith, George Stark, Dennis J. Stuehr, Vincent Tuohy, Riqiang Yan.

Course Descriptions

Note: The 100-level biology courses are intended primarily for non-science majors. Courses with "Human" in their titles discuss biological principles using humans as the main illustrative example.

BIO 100 The Living World (3-0-3). This is an introduction to the biology of all major groups of living things, including microbial, unicellular, and parasitic organisms, as well as multicellular plants, animals, and fungi. The fundamental concepts of evolutionary and functional biology are introduced through a systematic survey of the varieties of life. BIO 109 should be taken concurrently.

BIO 102 Human Genetics, Reproduction, and Development (3-0-3). This course covers the genetics and development of humans including application of genetic technology to humans. BIO 107 should be taken concurrently..

BIO 104 The Brain (3-0-3). This course is an introduction to the nervous system and the brain. Topics include discussion of the function of brain cells, sensory systems, motor systems, and higher functioning in mammalian systems. Normal and abnormal functions of the human brain are emphasized. BIO 107 should be taken concurrently..

BIO 104H Neuroscience: Exploring the Brain (3-0-3). Prerequisite: Honors standing or permission of university Honors Program. Co-requisite: BIO 105H. This honors course surveys the organization and function of the mammalian brain, emphasizing the human brain when possible. The nervous system is analyzed throughout a range of levels from the molecular basis of neuronal functioning to the system levels that govern behavior and cognition. The course emphasizes fundamental principles of neural functioning and the experimental methods by which that information is obtained.

BIO 105H Neuroscience Laboratory (0-2-1). Prerequisite: Honors standing or permission of university Honors Program. Co-requisite: BIO 104H. This course consists of selected experiments to reinforce concepts covered in BIO 104H. Exercises range from the classical demonstration of the ionic basis of the action potential to psychosocial experiments.

BIO 106 Human Biology in Health and Disease (3-0-3). This is an introduction to biological principles. Topics include discussion of cell structure, cell function, and physiology of digestion, circulation, excretion, and coordination in normal and disease states. BIO 107 must also be taken and passed in order to receive Natural Science GenEd 08 credit.

BIO 107 Human Biology Laboratory (0-2-1). This is a laboratory study of diverse aspects of human biology. Topics include cell structure and function, human anatomy, physiology, disease, genetics, reproduction, development, and aging. BIO 106 must also be taken and passed in order to receive Natural Science GenEd 08 credit.

BIO 108 Environmental Ecology (3-0-3). This course covers concepts of ecology as they relate to environmental problems in today's world. *This course is for non-science majors.*

BIO 109 Biological Diversity Laboratory (0-2-1). This is a laboratory study of past and present biological diversity, the importance and value of diversity, and the threats posed by human populations to the maintenance of biological diversity.

BIO 110 Plants and Civilization (3-0-3). This course covers the nature and uses of plants, the effects of plants on civilization and vice versa. BIO 109 should be taken concurrently.

BIO 112 Biology of the Dinosaurs (3-0-3). Dinosaurs are used to illustrate fundamental concepts of biology. Topics include methods of classification, evolutionary mechanisms including extinction, the process of fossilization, a survey of major dinosaur groups, and biological principles of biomechanics, physiology, and behavior. Current theories and controversies concerning dinosaur biology are evaluated. One or two class meetings are held at the Cleveland Museum of Natural History. BIO 109 should be taken concurrently.

BIO 130 Biology of Human Diversity (3-0-3). Prerequisite: Completion of General Education requirements in the areas of English Composition and of Mathematics and Logic. The purpose of this course is to provide a scientific consideration of the validity of the concept of human races. Sufficient background information in biology is introduced to cover the essential ideas involved in measuring human biological diversity. All students must write an 8- to 12-page research paper on some scientific aspect of human biological variation.

BIO 168 Biology of Aging (3-0-3). This course covers the various biological theories of aging, together with a review of the fundamental concepts of cell biology and physiology on which these concepts are based.

BIO 171 Summer Local Flora (2-4-4). This is the study and identification of representative species, genera, and families of mainly local vascular plants found in summer. The course includes lecture, laboratory, and field work.

BIO 173 Spring Local Flora (2-4-4). This is the study and identification of representative species, genera, and families of mainly local vascular plants found in spring. The course includes lecture, laboratory, and field work.

BIO 194 Special Topics in Biology variable 1 -6 credits. This is the study of a particular topic in biology. Topics to be announced in the course schedule each semester. The course may be repeated for credit with change of topic.

Note: Courses numbered 200 and above are intended primarily for Biology majors, Health Science majors, Nursing majors, and other science majors. Courses numbered 260 to 272 do not fulfill the requirements for the Biology major, but may be used for the biology minor.

BIO 200 Introductory Biology I (3-0-3). Co-requisite: BIO 201. This is an introduction to modern biology covering basic principles of molecular and cell biology, immunity, genetics, evolution, and biological classification..

BIO 201 Introductory Biology Laboratory I (0-2-1). Corequisite: BIO 200. This course is comprised of selected exercises designed to reinforce concepts covered in BIO 200.

BIO 202 Introductory Biology II (3-0-3). Recommended prerequisite: BIO 200. Corequisite: BIO 203. This is an introduction to modern biology including a survey of biological diversity, anatomy and physiology of plants and animals, principles of ecology, and human impact on ecosystems..

BIO 203 Introductory Biology Laboratory II (0-2-1). Corequisite: BIO 202. This is a set of selected exercises designed to reinforce concepts covered in BIO 202.

BIO 260 Human Genetics (3-0-3). Prerequisite: BIO 200. This course is a discussion of basic Mendelian and biochemical genetics with emphasis on chromosomal and molecular disorders.

BIO 264 Introductory Microbiology (3-0-3). Prerequisite: Upper-level high-school biology or BIO 106. Corequisite: BIO 265. The course covers principles of microbiology, and immunology, including pathogenic microorganisms, and viruses.

BIO 265 Introductory Microbiology Laboratory (0-2-1). Corequisite: BIO 264. This course is a set of selected exercises designed to reinforce concepts covered in BIO 264.

BIO 266 Human Anatomy and Physiology I (3-0-3). Prerequisite: Upper-level high-school biology, or BIO 106, or BIO 200, or HED 210. Corequisite: BIO 267. This is a systems approach to human anatomy and physiology.

BIO 267 Human Anatomy and Physiology I Laboratory (0-2-1). Corequisite: BIO 266. This course is a set of selected exercises designed to reinforce concepts covered in BIO 266.

BIO 268 Human Anatomy and Physiology II (3-0-3). Prerequisite: BIO 266. Corequisite: BIO 269. Continuation of BIO 266. This is a systems approach to human anatomy and physiology.

BIO 269 Human Anatomy and Physiology II Laboratory (0-2-1). Co-requisite: BIO 268. This course is a set of selected exercises designed to reinforce concepts covered in BIO 268.

BIO 270 Human Nutrition (3-0-3). Prerequisite: BIO 106, or 200, or 268. This course is an introduction to human nutrition, including nutritional requirements throughout life, nutrient value, metabolic requirements, nutrition and disease, malnutrition and undernourishment, dieting supplements, and dietary fads.

BIO 300 Plant Biology (3-0-3). Prerequisites: BIO 200 and 202. Corequisite: BIO 301. This course covers plant diversity, structure, function, and evolution.

BIO 301 Plant Biology Laboratory (0-2-1). Corequisite: BIO 300. This is a set of selected exercises designed to reinforce concepts covered in BIO 300.

BIO 302 Animal Biology (3-0-3). Prerequisites: BIO 200 and 202. Corequisite: BIO 303. This course covers animal diversity, structure, function, and evolution.

BIO 303 Animal Biology Laboratory (0-2-1). Corequisite: BIO 302. This is a set of selected exercises designed to reinforce concepts covered in BIO 302.

BIO 304 Population Biology and Evolution (3-0-3). Prerequisites: BIO 200 and 202. Corequisite: BIO 305. This course covers population genetics, evolutionary processes, population ecology, and biogeography.

BIO 305 Population Biology and Evolution Laboratory (0-2-1). Corequisite: BIO 304. This is a set of selected exercises designed to reinforce concepts covered in BIO 304.

BIO 306 Biochemistry and Molecular Biology (4-0-4). Prerequisites: BIO 200, 202, and CHM 331. This course is a discussion of the essential concepts underlying biochemistry. Topics include chemical concepts, structure of biological molecules, catalysis, metabolic regulation, and molecular genetics.

BIO 308 Cell Biology (3-0-3). Prerequisites: BIO 200, 202 and CHM 331. This course covers the structure, function, and biogenesis of cellular organelles and the cytoskeleton. It includes discussions of development at the cellular level, inter- and intra-cellular signaling, and regulation of the cell cycle.

BIO 309 Cell Biology Laboratory (0-2-1). Prerequisite or Co-requisite: BIO 308. This is a set of selected exercises designed to reinforce concepts covered in BIO 308.

BIO 310 Genetics (3-0-3). Prerequisites: BIO 200 and BIO 202. This course covers the principles of transmission and molecular genetics in prokaryotes and eukaryotes, with emphasis on classical and molecular analysis techniques and their interpretation.

BIO 311 Genetics Recitation (0-2-1). Prerequisite or corequisite: BIO 310. This course covers problem solving, demonstrations, and special projects with emphasis on databases and Web tools for genetic and bioinformatic analyses.

BIO 380 Biology Content for Middle School Teachers (3-4-5). Enrollment is restricted to students seeking middle school licensure. No credit towards biology major or minor. Biological concepts relevant to students seeking middle school licensure will be discussed and related to timely issues. Lectures will coordinate with laboratory exercises and inquiry-based activities.

BIO 390 Writing in Biology I (2-0-2). Prerequisite: a declared biology major. Co-requisite: Students must be concurrently enrolled in a 300- or 400-level biology course. Students must obtain permission of the Biology Adviser prior to registering for this course. This course is designed to develop the writing and oral presentation skills of students through assigned projects and in-class activities. Students write conceptual (review or theoretical) papers according to a standard format. A substantial written report is one of the requirements. The 300/400 level Biology course instructor, in consultation with the student, determines the topic of the written report.

BIO 391 Writing in Biology II (1-0-1). Prerequisites: BIO 390 and a declared biology major. Corequisite: Students must be concurrently enrolled in a 300- or 400-level biology course. Students must obtain permission of the Biology Adviser prior to registering for this course. Students write conceptual (review or theoretical) papers according to a standard format and give in-class oral presentations. A substantial written report is one of the requirements. The 300/400 level instructor, in consultation with the student, determines the topic of the written report. May be repeated with change of the 300/400 level course.

BIO 400 Orientation for Medical Technology Students (1-0-1). Prerequisite: Admission to the Medical Technology major. *No credit towards biology minor*. The course includes pre-clinical orientation; general aspects of the hospital training program; concept of the medical technologist as a member of the health-care delivery team; lectures by education coordinators of hospital schools; and visits to hospital clinical laboratories.

BIO 401 Urban School Service Learning in Biology (0-2-1). Prerequisites: Major in biology and at least two biology courses at the 300 level. Permission of biology adviser needed. No credit towards biology minor. This is a service learning field course that involves assisting science teachers at a designated urban middle or high school for two hours per week. It requires a brief, reflective paper on the experience. May be taken twice for credit.

BIO 408 Animal Cell Culture (2-2-3). This course covers theoretical and practical introduction to methods of animal cell culture necessary for research in biomedical or biotech labs and in the pharmaceutical industry. Techniques include choice of medium, passaging, freezing, tests of purity and viability, stable and transient transfection, and preparing primary cultures.

BIO 410 Theory and Practice of Light Microscopy (3-0-3). Prerequisite: BIO 308. Corequisite: BIO 411. This course is a consideration of diverse theoretical and practical aspects of the light microscope.

BIO 411 Theory and Practice of Light Microscopy Laboratory (0-2-1). Corequisite: BIO 410. Laboratory exercises and projects undertaken outside of scheduled class time provide practical experience with various uses of the light microscope.

BIO 412 Elements of Immunology (3-0-3). Prerequisites: BIO 306 and BIO 308. This course covers the nature of antigens, antibody structure and function, B and T cell activation, cytokines, immunoassays, terminology.

BIO 413 Elements of Immunology Laboratory (0-2-1). Prerequisite or Corequisite: BIO 412. This course covers immunochemical assays and cell culture techniques; preparation of single-cell suspensions and determination of cell viability; andidentification and quantification of antigen-antibody interactions.

BIO 414 Parasitology (2-0-2). Corequisites: BIO 302 and BIO 415. This is a basic course primarily designed for biology majors who desire an understanding of animal parasitology, including ecology, life histories, and host-parasite relationships.

BIO 415 Parasitology Laboratory (0-4-2). Corequisite: BIO 414. This is a set of selected exercises designed to reinforce concepts covered in BIO 414.

BIO 416 Microbiology (3-0-3). Prerequisite: BIO 306. Corequisite: BIO 417. This course covers the structure, function, and genetics of major groups of microorganisms, with emphasis on bacteria; and the role of microbes in the economy of nature and man.

BIO 417 Microbiology Laboratory (0-4-2). Corequisite: BIO 416. This course covers the techniques of identification, manipulation, and quantification of microbes.

BIO 418 Histology (3-0-3). Prerequisite: BIO 308. Corequisite: BIO 419. This course covers the structure of mammalian cells, tissues, and organs, with emphasis on relationships of structure and function.

BIO 419 Histology Laboratory (0-2-1). Corequisite: BIO 418. This is a set of selected exercises designed to reinforce concepts covered in BIO 418.

BIO 420 Comparative Vertebrate Anatomy (2-0-2). Prerequisite: BIO 302. Corequisite: BIO 421. This is a comparative study of gross structure and evolutionary development of vertebrate organ systems.

BIO 421 Comparative Vertebrate Anatomy Laboratory (0-4-2). Corequisite: BIO 420.This lab involves the detailed dissections of representative vertebrate specimens.

BIO 422 Mammalian Physiology (3-0-3). Prerequisite: BIO 302. Corequisite: BIO 423. This course covers the physiology of major organ systems of vertebrates, with an emphasis on mammalian physiology. Students may not take both BIO 422 and BIO 424 for credit.

BIO 423 Mammalian Physiology Laboratory (0-2-1). Corequisite: BIO 422. This course is made up of exercises that emphasize modern methods of physiological measurement, and the analysis and presentation of physiological data.

BIO 424 Principles of Animal Physiology (3-0-3). Prerequisite: BIO 302. Basic concepts of comparative animal physiology will be developed from fundamental principles of chemistry, biology, and physics. The evolution of major physiological systems will be examined through a comparison of taxa ranging from protists through vertebrates. Students may not take both BIO 422 and BIO 424 for credit.

BIO 425 Principles of Animal Physiology Laboratory (0-2-1). Prerequisite or Corequisite: BIO 424. This course is comprised of exercises that emphasize modern methods of physiological measurement, and the analysis and presentation of physiological data.

BIO 426 Neurobiology (3-0-3). Prerequisite: BIO 302 or equivalent. This is an exploration of the relation of behavior to neural function. Topics include basic neurophysiology and properties of sensory and motor systems illustrated with human and nonhuman examples. Students may not take both BIO 426 and HSC 476 for credit.

BIO 427 Neurobiology Laboratory (0-4-2). Prerequisite or corequisite: BIO 426. This course covers classical invertebrate experiments that provide an introduction to standard neurobiological techniques for studying neural activity, including simple dissection, stimulating and recording neural activity, and analyzing data.

BIO 428 Endocrinology (3-0-3). Prerequisite: BIO 308. This is an introduction to functions of hormones and endocrine glands, including mechanisms controlling hormone secretion; mammalian systems emphasized.

BIO 430 Bioinformatics (3-0-3). Prerequisites: BIO 306 and BIO 310. A course in either statistics or computer science is highly recommended. This course is an introduction to the tools and techniques of bioinformatics, with emphasis on computational techniques to analyze genomic and proteomic data. Topics include searching of databases, sequence

alignment and analysis, phylogenetic methods and computer programming to analyze database information. A project using original or Internet bioinformatics tools is required.

B10 432 Molecular Genetics (3-0-3). Prerequisite: BIO 308. This course covers the principles of modern molecular genetics and gene regulation.

BIO 434 Elements of Pharmacology (3-0-3). Prerequisites: BIO 302 and BIO 306. This course is an analysis of the basic principles of the pharmacokinetics and pharmacodynamics of selected therapeutic agents. Emphasis will be on the experimental basis of drug discovery, design, and clinical use.

BIO 435 Techniques in Molecular Biology (1-6-4). Prerequisite: BIO 308. This is a lecture/laboratory course in fundamentals of modern biotechnology with emphasis on the techniques and procedures of molecular biology. Students will work together to complete a project.

BIO 436 Evolutionary Genetics (3-0-3). Prerequisites: BIO 304 and 310. This is an introduction to the modern theory of evolutionary genetics, including development of the concepts of genetic diversity, natural selection, random genetic drift, population substructure, infinite-alleles models, and the neutral theory of molecular evolution.

BIO 438 Advanced Cell and Molecular Biology (3-0-3). Prerequisite: BIO 308. This an advanced study of topics in cell and molecular biology. Papers from the primary scientific literature are read and discussed.

BIO 450 Evolutionary Biology (3-0-3). Prerequisites: BIO 300 or 302, and 304. This course is comprised of advanced lectures on evolution that consider traits, genes, and their interaction with environmental variation. Topics include the basic quantitative methods required to interpret evolutionary change, the consequences of population structure, molecular approaches to phylogenetic studies, and the changes in genetic variation under different models of selection, drift, migration, and mutation.

BIO 453 Field Experience in Ecology and Conservation Biology (1 to 6). Prerequisites: BIO 300 or 302, and 304. This course examines principles of ecology and conservation biology through field research in a natural setting. Students participate in research projects emphasizing analyses of biodiversity, population demography, species interactions, or behavior. Following preparatory sessions at Cleveland State University, the class travels to off-campus field sites for the balance of the course. Living conditions may be primitive in the field and international travel may be required. See semester course schedule and contact the biology office (216) 687-2440 for further information.

BIO 454 Ecology (2-0-2). Prerequisites: BIO 300 or 302, and 304. This is the study of interactions of organisms with their environment, including growth and regulation of populations, energetics of organisms and ecosystems, life-history evolution, and community ecology.

BIO 455 Ecology Laboratory (0-4-2). Prerequisite or corequisite: BIO 454. This is a set of selected exercises designed to reinforce concepts covered in BIO 454. The laboratory includes a few one-day field trips on weekends.

BIO 456 Vertebrate Biology and Evolution (3-0-3). Prerequisites: BIO 302 and 304. Topics cover the biology of vertebrates, with special emphasis on those aspects that relate to the evolutionary history of the group; lectures on the basic mechanism of Darwinian evolution.

BIO 458 Behavior (3-0-3). Prerequisites: BIO 302 and 304. This is an introduction to, and survey of, animal behavior from an evolutionary perspective.

BIO 462 Evolutionary Ecology of Sexual Reproduction (3-0-3). Prerequisite: BIO 300 or BIO 302. Although organisms spend huge amounts of energy carrying out activities related to sexual reproduction, it is by far the most dominant mode of reproduction. This course explores that dilemma and examines various modes of sexual reproduction in diverse organisms in an evolutionary context.

BIO 464 Developmental Biology (3-0-3). Prerequisite: BIO 308. The fundamental principles of development are illustrated using classical invertebrate and vertebrate systems. The molecular, genetic, and cellular bases of development are integrated with classical descriptive and experimental approaches.

BIO 465 Developmental Biology Laboratory (0-2-1). Prerequisite or corequisite: BIO 464. This is an examination of important mechanisms and concepts operating in developing animal systems. Laboratories expose students to both classical embryology and modern molecular approaches to experimental developmental biology.

BIO 468 Theories of Aging (3-0-3). Prerequisite: BIO 308. This course is an inquiry into the reasons why some organisms show aging in the form of senescence, while other organisms seem to be perennial, or at least long-lived. Current theories of aging will be critically analyzed.

BIO 471 Summer Local Flora (2-4-4). Prerequisite: BIO 300. This is the study and identification of representative species, genera, and families of mainly local vascular plants found in summer. It includes lecture, laboratory, and field work.

BIO 472 Wetland Ecology (3-2-4). Prerequisites: BIO 300 and BIO 304. This is a study of the interaction of physical, geochemical, and biological components of wetland ecosystems. Adaptations of organisms in wetland ecosystems and community interactions are emphasized. Field and laboratory study give students experience in inquiry-based activities involving data collection and analyses used in wetland ecology. Techniques in wetland characterization and delineation are covered.

BIO 473 Spring Local Flora (2-4-4). Prerequisite: BIO 300. This is the study and identification of representative species, genera, and families of mainly local vascular plants found in spring. It includes lecture, laboratory, and field work.

BIO 474 Stream Ecology (3-2-4). Prerequisite: BIO 300 or 302 or 304 or equivalent. This is a study of the interaction of physical, geochemical, and biological components in stream ecosystems. Adaptations of organisms in aquatic environments, community interactions, and ecosystem energetics are emphasized. Field and laboratory study give students experience in inquiry-based activities involving data collection and stream ecosystem analyses. Techniques in stream habitat and water quality assessment are covered. To facilitate outdoor excursions, may be scheduled outside normal semester dates and graded initially with a T grade.

BIO 476 Plant Biochemistry (3-0-3). Prerequisites: BIO 300 and 308. Corequisite: BIO 477. This course covers the basic physiological processes in plants; photosynthesis, uptake of nutrients, respiration, growth, and the role of hormones and enzymes involved in these processes.

BIO 477 Plant Biochemistry Laboratory (0-2-1). Corequisite: BIO 476. This is a set of selected exercises designed to reinforce concepts covered in BIO 476.

BIO 478 Morphology of Angiosperms (3-0-3). Prerequisite: BIO 300. Corequisite: BIO 479. This is a study of the overall form, development and, to a minor extent, microscopic structure of the vegetative and reproductive structures of flowering plants.

BIO 479 Morphology of Angiosperms Laboratory (0-2-1). Corequisite: BIO 478. This is a set of selected exercises designed to reinforce concepts covered in BIO 478.

BIO 480 Developmental Plant Biology (3-0-3). Prerequisite: BIO 300. Corequisite: BIO 481. This course covers plant anatomy and morphogenesis: a comparative study of the origin, differentiation, and structure of cells, tissues, and organs in higher plants, with emphasis on evolutionary development.

BIO 481 Developmental Plant Biology Laboratory (0-2-1). Corequisite: BIO 480. This is a set of selected exercises designed to reinforce concepts covered in BIO 480.

BIO 490 Honors Research (1 or 2). Prerequisite: Honors degree status. This course is supervised research in a faculty member's laboratory on a project approved by the Honors Program Committee. May be repeated for credit.

BIO 491 Honors Thesis and Defense (3-0-3). Prerequisite: Honors degree status. This is the written report on honors research project and a public defense of the thesis before a faculty committee.

BIO 492 Honors Seminar (1-0-1). Prerequisite: Honors degree status. This is the oral reports on selected topics, including the honors research project. May be repeated for credit.

BIO 493 Special Topics in Biology (3-0-3). ***Course to be deleted -effective Spring 2010-*** Prerequisite: at least junior standing. Study of a particular topic in biology. Topics to be announced in semester course schedule. May be repeated for credit with a change of topic.

BIO 494 Special Topics in Biology (1 to 6 credits). Prerequisite: at least junior standing. This is the study of a particular topic in biology. Topics to be announced in semester course schedule. It may be repeated for credit with a change of topic up to 12 credits. **BIO 495 Seminar (1-0-1).** Prerequisites: Senior standing and major in biology. Presentation of student reports on topics of the instructor's choice.

BIO 496 Independent Study in Biology (variable 1 to 6 credits). Prerequisites: Junior or senior standing, or permission of biology adviser. This is a special study and directed reading of selected topics for undergraduate biology majors. It may be repeated, but no more than 8 credits of any combination of BIO 490, BIO 496, and BIO 497 will be allowed towards the biology degree. For WAC credit for pre-2008 students, must include a minimum of 3000 words or 1500 words/credit—whichever is more—of writing per credit, performed in accord with the preGenEd08 WAC requirements. For GenEd08 WAC credit, must be combined with BIO 390 or BIO 391. .

BIO 497 Independent Research in Biology (variable credit 1 to 6). Prerequisites: Junior or senior standing, and permission of biology advisor. This is a special research course for undergraduate biology majors. It may be repeated, but no more than 8 credits of any combination of BIO 490, BIO 496, and BIO 497 will be allowed towards the biology degree. Students must obtain the permission of a faculty supervisor of the project before registering. For WAC credit for pre-2008 students, must include a minimum of 3000 words or 1500 words/credit—whichever is more—of writing per credit, performed in accord with the preGenEd08 WAC requirements. For GenEd08 WAC credit, must be combined with BIO 390 or BIO 391.

BIO 499 Exit Evaluation (0-1-0). Prerequisite: Senior standing. Final exit examination and outcomes assessment evaluation required of all graduating seniors. Graded S/U.

Black Studies Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Associate Professor: Michael Williams.

Course Descriptions

BST 200 Introduction to Black Studies (4-0-4). Prerequisite: none. Introduction to Black Studies is designed to serve as the foundational course for those interested in pursuing the Black Studies major or minor. The theoretical and applied foundations of the Black Studies discipline are presented and explored. The course will introduce the student to the discipline's founders. The course will follow the development of the discipline from its origins to its current state.

Business Law Courses

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Faculty

Link to Accounting Department Personnel
Link to Profiles of Full-time Accounting Faculty

Professor: Bruce McClain; **Associate Professor:** Theresa Johnson Holt.

Course Descriptions

BLW 411 Business Law and Ethics (3-0-3). Prerequisite: Junior standing. Topics include elements of legal contracts, proof, inadmissible evidence, discharge, breach, and termination; statutes of fraud and limitations; principal-agent relationships; nature of partnerships and essentials of partnership agreements; formation and organization of corporations; powers and regulations of foreign corporations; Uniform Partnership and Ohio General Corporation Acts.

BLW 412 CPA Business Law (3-0-3). Prerequisite: BLW 411. Extends study of topics covered in BLW 411 and prepares students for the business law portion of the CPA exam. Reinforces contract law and key business law topics for accountants. Includes business crimes, SEC regulation, property rights, and accountant liability.

College of Business Administration: Special Topics Courses

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Course Descriptions

BUS 101 Introduction to University Life (1-0-1). Part of the university's General Education Requirements, this is a required course for freshmen intending to pursue the degree in business or computer and information science. Covers various issues related to university life, academic achievement and choosing a major, career planning, and related topics.

BUS 151 World of Business (3-0-3). Introduces students to the global environment of modern business, the structure of business enterprises, entrepreneurship, innovation and the creation of capital, and to the management, marketing, financial analysis, and strategies that create successful organizations. Introduces students to the study of business and to the challenges and rewards of professional careers in this field.

BUS 193 Special Topics (2-4 credits). Special topics in business, suitable for students in their first or second year of college. Open to students from all colleges or majors. A free elective; does not count toward the BBA degree core requirements.

BUS 293 Special Topics (2-4 credits). Special topics in business, suitable for students in their first or second year of college. Open to students from all colleges or majors. A free elective; does not count toward the BBA degree core requirements.

BUS 393 Special Topics (2-4 credits). Special topics in business, suitable for students in their second or third year of college. Open to students from all colleges or majors. A free elective; does not count toward the BBA degree core requirements.

BUS 490 Business Internship (1-4 credits). Prerequisites: Approval of program head or department chair; senior standing. Designed to provide the business student with supervised professional work experience in one or more areas of business. Internship experience will be sponsored by a professor in a business discipline and will require a written proposal and a final report.

BUS 493 Special Topics (2-4 credits). Special topics in business, suitable for students in their third or fourth year of college. Open to students from all colleges or majors. A free elective; does not count toward the BBA degree core requirements.

BUS 496 Independent Study (1-4 credits). *Prerequisite: Senior standing or permission of program director.* Enables qualified students to explore or investigate special areas of interest in business administration. Must prepare study proposal on a topic approved by a faculty adviser and program director, and submit a professional management report upon completion of the project.

BUS 499 Honors Thesis in Business Administration (4 credits). Prerequisite: Restricted to senior honors students in Business Administration. The Honors Thesis requires the honors student to conduct a piece of original research in business administration under the supervision of a Business faculty member. The thesis will be presented orally and submitted as a written report.

Career Services Courses

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Course Descriptions

CSC 121 Career Orientation (1-0-1). Prerequisite for entry into the Cooperative Education Program, but open to all students. Covers policies and procedures of the Cooperative Education Program, orientation to career decision-making, personal evaluation, interviewing techniques, resume preparation, and job-market trends. Satisfactory/Unsatisfactory basis only.

CSC 224 Career Exploration (3-0-3). Designed to help students explore the world of work, their skills and interests, job-search strategies, and the relationship between various college majors and careers. Highly recommended for undeclared/undecided students. Satisfactory/Unsatisfactory basis only.

CSC 300 Co-op Field Experience (1-0-1). Required of and limited to students on co-op work assignments in all colleges. One hour of credit is awarded for each successful assignment completed. This credit is not counted toward the number of hours needed for graduation but it will add academic hours to a student's credit total and enhance career preparedness.

CSC 321 Employment Strategies (1-0-1). Designed to prepare juniors, seniors, and graduate students for an effective job search. Covers a range of related subjects: taking personal inventory, initiating a personal job campaign, resume preparation, telephone techniques, accessing the hidden job market, salary negotiations, networking, interviewing, follow-up measures, and strategies to enhance on-the-job success. Satisfactory/Unsatisfactory basis only.

CSC 400 Co-op Field Experience (1-0-0). Special field assignment for students who have completed prior co-op requirements or who participate in community work study. Satisfactory/Unsatisfactory basis only.

Chemical Engineering Courses

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Faculty

Link to Department Personnel
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Professors: Joanne M. Belovich, George A. Coulman (Emeritus), Jorge E. Gatica, Bahman Ghorashi (Dean), Edward S. Godleski (Emeritus), Dhananjai B. Shah (Chair), Orhan Talu, Surendra N. Tewari; **Associate Professors:** George P. Chatzimavroudis, Rolf Lustig, Nolan B. Holland, Sridhar Ungarala; **Assistant Professor:** N/A

Course Descriptions

CHE 300 Chemical Engineering Principles (4-0-4). Prerequisites: MTH 182, CHM 262, PHY 241. Pre- or co-requisite: ESC 250. Mathematical analysis of steady-state chemical processes based on conservation of mass and energy. An introduction to computer-aided design of chemical processes.

CHE 302 Chemical Engineering Thermodynamics (4-0-4). Prerequisites: CHE 300, ESC 321, MTH 283, and ESC 250. Evaluation and application of the laws of thermodynamics with respect to physical and chemical processes. Real gas behavior, solution thermodynamics, phase and reaction equilibria.

CHE 306 Transport Phenomena (4-0-4). Prerequisites: CHE 300, ESC 301, and ESC 250. Formulation of the physical laws of momentum, heat, and mass transport, with emphasis on their interrelationship. Application of these principles to basic transport processes. Diffusive and convective transport mechanisms.

CHE 308 Junior Chemical Engineering Laboratory (0-2-1). Prerequisites: ESC 120, CHE 300, ESC 350, or permission of the instructor. Introduction to common practices in engineering laboratories and preliminary statistical concepts on experimental design, data collection, and analysis of experimental data. Introduction to preparation and presentation of technical reports. Perform experiments on bench scale apparatus with an emphasis on measurements and statistical assessment of experimental data. Concepts examined in detail include: correlation of experimental results with engineering science, design theory, and statistics in engineering. Comprehensive technical report and oral report presentation required.

CHE 366 Bioprocess Engineering Principles (3-0-3). Prerequisites: Calculus I (MTH 181), General Chemistry (CHM 261/266), Cell Biology (BIO 308), and either Biochemistry and Molecular Biology (BIO 306) or Biochemistry (CHM 402). An introduction to the fundamental concepts needed for the design of large-scale cell-based processes. Topics include: material and energy balance analysis of process equipment; the design of batch, continuous, and alternative reactor designs for growth of cells; heat transfer; fluid flow and mixing; aeration and agitation systems; downstream processing. Does not satisfy the technical elective requirement for chemical engineering students.

CHE 404 Chemical Reactor Design (3-2-4). Prerequisites: CHE 302, CHE 306, and CHE 308. Basic principles of chemical reaction engineering. Basic (Ideal) reactor description modeling, and design. Analysis of kinetic data. Isothermal and non-isothermal reactor design. Principles of catalysis. Reaction engineering principles in modern technologies.

CHE 408 Separation Processes (4-0-4). Prerequisites: CHE 302, CHE 306, and ESC 350. Study of diffusion mass transfer and mass transfer operation, including humidification, absorption, stripping, distillation, liquid-liquid extraction, leaching, drying, crystallization, evaporation, filtration, adsorption, and membrane separations.

CHE 420 Chemical Engineering Laboratory (2-4-4). Prerequisites: CHE 306, CHE 404, and CHE 408. In this course chemical engineering experiments are performed on both bench and pilot plant scale apparatus. The results are used to correlate the chemical engineering science, and the design theory taught in previous course work with the units' actual operation. Emphasis is placed on technical report-writing and oral report presentation.

CHE 430 Process Control (3-2-4). Prerequisites: ESC 350 and CHE 404. Introduction to the application of process control to chemical and physical processes.

CHE 440 Process Design I (3-0-3). Prerequisites: CHE 404 and CHE 408. Design of small-scale chemical systems with project and case study approaches, equipment and materials specification, economic evaluation of individual plant subsystems.

CHE 441 Process Design II (3-0-3). Prerequisite: CHE 440. Large-scale, integrated design of chemical systems within the constraints of return on investment, market forecasts, safety, and pollution abatement.

CHE 451 Agile Manufacturing (3-0-3). Prerequisite: Senior standing in Engineering, or permission of instructor. An interdisciplinary course in agile manufacturing. Emphasis is placed on re-configurable self-directed work teams, flexible structures, adoption of advanced technology, and quality improvements.

CHE 461 Principles of Air Pollution Control (3-0-3). Prerequisite: Senior standing in Engineering, or permission of instructor. The application of engineering principles to the analysis and control of air pollution; includes techniques of air sampling and analysis, atmospheric chemistry and transport, air quality standards, and methods of air pollution abatement.

CHE 466 Biochemical Engineering (3-0-3). Prerequisite: Senior standing in Chemical Engineering, or permission of instructor. Introduction to the fundamental concepts in biochemical engineering. Topics include enzyme kinetics, immobilized enzymes, genetic engineering, cell growth kinetics, batch and continuous bioreactor design.

CHE 468 Process Modeling (3-0-3). Prerequisite: Senior standing in Chemical Engineering, or permission of instructor. Review of the basic principles of transport of momentum, heat, and mass with applied problems. Numerical methods for solving more complex problems of transport phenomena and kinetics.

CHE 472 Principles of Adsorption and Catalysis (3-0-3). Prerequisite: Senior standing in Chemical Engineering, or permission of instructor. An in-depth study of the chemical principles governing the adsorption of molecules onto chemically active surfaces of catalysts and determining how this adsorptive interaction causes chemical reactions to be promoted. The course emphasizes the study of catalysts in industrially significant reactions, such as in petroleum refining.

CHE 474 Multiphase Reactors (3-0-3). Prerequisite: Senior standing in Chemical Engineering, or permission of instructor. Isothermal and non-isothermal analysis of kinetic data for gas-solid catalytic and noncatalytic reacting systems. Design of packed bed, fluidized bed, and moving bed reactors.

CHE 476 Multicomponent Mass Transfer (3-0-3). Prerequisite: Senior standing in Chemical Engineering, or permission of instructor. Diffusion and mass transfer as applied to stagewise and continuous operations. Emphasis will be placed on multicomponent, non-isothermal, unsteady-state operations. There will be a considerable amount of time devoted to computer programs.

CHE 480 Advanced Materials Processing (3-0-3). Prerequisite: Senior standing in Engineering, or permission of instructor. Use of fundamental principles in design and analysis of advanced materials processing, such as fabrication of semiconductor devices, optical materials fabricated by sol-gel processes, ceramic-metal composites, and control of morphology at submicron levels.

CHE 482 Introduction to Combustion Phenomena (3-0-3). Prerequisite: Senior standing in Engineering or Science major, or permission of instructor. Develops a foundation in combustion phenomena including transport and other mechanisms in homogeneous and heterogeneous combustion. Environmental implications of combustion. Elementary modeling and preliminary design calculations in industrial and modern applications of combustion, such as hazardous waste incineration, gas turbines, catalytic converters, and coal combustion systems. Regulatory concerns, stoichiometry, thermochemistry, incinerators and air pollution control.

CHE 484 Principles and Applications of Rheology (3-0-3). Prerequisite: Senior standing in Engineering, or permission of instructor. Rheological models for non-Newtonian fluids. Study of principles of equipment design.

CHE 486 Fundamentals of Polymers (3-0-3). Prerequisite: Senior standing in Engineering, or permission of instructor. Study of polymer molecular structure and its relation to physical properties, such as molecular weight distributions, gel point, glass transition, heat capacity, and viscosity; polymerization kinetics; condensation esterification, emulsion polymerization; methods of analysis, such as X-ray diffraction, infrared spectroscopy, and other important basic engineering properties of polymers.

CHE 488 Materials Selection and Specification (3-0-3). Prerequisite: Senior standing in Engineering or permission of instructor. Application of engineering of materials science principles in the selection and/or specification of metals, ceramics, and plastic materials for use in structural, mechanical, and chemical usage. Mechanical properties, corrosion, oxidation, and variation of properties with temperature are considered.

CHE 494 Selected Topics in Chemical and Biomedical Engineering (3-0-3). Prerequisite: Permission of instructor. Topics of current importance in chemical and biomedical engineering.

CHE 496 Chemical and Biomedical Engineering Projects (1-4-3). Prerequisites: Senior standing in Chemical Engineering and 3.0 GPA or higher, or permission of chairperson. Special individual chemical engineering projects under the direction of a faculty adviser. May be repeated for up to 6 credit hours.

CHE 496H Chemical and Biomedical Engineering Honors Project (1 to 3 credit hours). Prerequisites: Junior or Senior standing, Honors standing or permission of university Honors Program, and approval of student honors adviser. Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student honors adviser, and the department's undergraduate adviser. May be repeated for credit.

CHE 499H Chemical and Biomedical Engineering Honors Thesis (3 credit hours). Prerequisites: Senior standing, Honors standing or permission of university Honors Program, and approval of student's honors adviser. Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student honors adviser, and the department undergraduate adviser. The culmination of this course is a written thesis that is approved by a committee of departmental faculty members. The student will also make a public, oral presentation of the thesis to Department faculty and students.

Chemistry Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: David J. Anderson (Chair), David W. Ball, Stan A. Duraj, Baochuan Guo, Michael Kalafatis, John Masnovi, Yan Xu; **Professors Emeriti:** Anson H. Andrist, Roger W. Binkley, Robert L.R. Towns, Bruce F. Turnbull; **Associate Professors:** Mekki Bayachou, Valentin Gogonea, Xue-Long Sun;John Turner, Robert Wei, Aimin Zhou; **Associate Professors Emeriti:** Thomas W. Flechtner, Ralph A. Gardner, Robert Megargle, Earl Mortensen, **Assistant Professors: Bin Su; Adjunct Faculty:** Joseph Mundell, Alan Riga, Bingcheng Wang, SiHe Wang; **Clinical Faculty:** Manjula Gupta, Michael P.C. Ip; **CCF Faculty:** Alex Almassan, Kathleen Berkner, Tatiana Byzova, Martha Cathcart, Guy Chisolm, John Crabb, Carol delaMotte, Paul DiCorleto, Joseph DiDonato, Donna Driscoll, Serpil Erzurum, Maria Febbraio, Paul Fox, Ram Ganapathi, Jaharul Haque, Stan Hazen, Donald Jacobsen, Sadashiva Karnik, Andrew Larner, Xiaoxia Li, Thomas McIntyre, Richard Padgett, Edward Plow, Jun Qin, Robert Silverman, Roy Silverstein, Jonathan Smith, George Stark, Dennis Stuehr, Bruce Trapp, Qing Wang, Qingyu Wu.

Course Descriptions

CHM 151 Chemistry Around Us (3-0-3). Study of chemical thought from alchemy to chemistry, and how it affects our lives from the kitchen to the nuclear power plant.

CHM 156 Chemistry Around Us Laboratory (0-2-1). Corequisite: CHM 151. Selected experiments designed to reinforce concepts covered in CHM 151.

CHM 161 Preparatory Chemistry (3-0-3). Prerequisite: Less than acceptable score on the General Chemistry placement exam. A survey of general chemistry skills and principles geared toward preparing students for the two-semester general chemistry lecture sequence. Designed as an introductory course for students without high school chemistry who want to take CHM 261, or for students who need additional preparation before taking CHM 261.

CHM 251 College Chemistry I (3-0-3). Prerequisite: one unit high-school algebra. Introduction to chemistry, including fundamental concepts, tools and techniques; matter and energy; atomic structure; chemical bonds and reactions; equilibrium and the gas laws; applications to daily life, industry and life processes.

CHM 252 College Chemistry II (3-0-3). Prerequisite: CHM 251. Survey of organic and biological chemistry with a specific orientation toward the health sciences.

CHM 255 Principles of Environmental Chemistry (3-0-3). Prerequisite: one-unit high-school algebra. Study of natural and polluted environmental processes through chemical concepts and principles.

CHM 256 College Chemistry Laboratory I (0-2-1). Corequisite: CHM 251. Selected experiments designed to reinforce concepts covered in CHM 251.

CHM 257 College Chemistry Laboratory II (0-2-1). Prerequisite: CHM 256. Corequisite: CHM 252. Selected experiments designed to reinforce concepts covered in CHM 252.

CHM 261 General Chemistry I (4-0-4). Prerequisites: Math ACT score of at least 25, or Math SAT score of at least 550, or achieving a suitable score on the General Chemistry placement exam, or completion of CHM 161 with a grade of C or better, or completion of CHM 251 with a grade of C or better. Stoichiometry, atomic theory, states of matter, electronic structure, oxidation-reduction, and thermodynamics.

CHM 262 General Chemistry II (4-0-4). Prerequisite: CHM 261. Kinetics, equilibrium, acid-base chemistry, nuclear chemistry, and descriptive chemistry.

CHM 262H Honors General Chemistry (4-0-4). Prerequisite: Honors standing or permission of university Honors Program or permission of instructor; CHM 261. Advanced course parallel to CHM 262. Kinetics, equilibrium, acid-base chemistry, nuclear chemistry, and descriptive chemistry.

CHM 266 General Chemistry Laboratory I (0-3-1). Corequisite: CHM 261. Selected experiments designed to reinforce concepts covered in CHM 261.

CHM 267 General Chemistry Laboratory II (0-3-1). Prerequisite: CHM 266. Corequisite: CHM 262. Selected experiments designed to reinforce concepts covered in CHM 262.

CHM 267H Honors General Chemistry Laboratory (0-3-2). Prerequisites: Honors standing or permission of university Honors Program or permission of instructor, CHM 266. Advanced course parallel to CHM 267.

CHM 278 REEL General Chemistry Laboratory (0-6-2). Prerequisites: CHM 261, CHM 266 and instructor approval. Corequisite: CHM 262. Designed to provide chemistry research experience to enhance learning (R.E.E.L.). May substitute for CHM 267.

CHM 281 Pre-Organic Chemistry (2-0-2). Prerequisites: CHM 261, CHM 266; corequisite: CHM 262. Designed to better prepare students for making the transition from General Chemistry to Organic Chemistry and is offered for students seeking or in need of (1) a firm foundation of the principles covered in General Chemistry which will be used in Organic Chemistry, and (2) an introduction to the basic concepts, terminology, and skills found in Organic Chemistry. Will review essential material from General Chemistry, particularly focusing on organic applications, as well as familiarize students with the rigor, style, and perspectives found in Organic Chemistry. The approach will be highly visual, with material presented less in a formal lecture format and more in drawings, animations, problem solving, and peer-led discussion. Credit earned for CHM 281 cannot be used in place of credit for CHM 331.

CHM 300 Computer Applications in Chemistry (2-0-2). Prerequisites: MTH 182 and CHM 262 or CHM 272. Introduction to the use of personal computers for chemical problem solving, numerical methods, and access of online chemical resources.

CHM 310 Survey of Analytical Chemistry (2-0-2). Prerequisite: CHM 262 or CHM 272. Corequisite: CHM 315. Introduction to and survey of classical and modern instrumental methods of chemical analysis.

CHM 311 Analytical Chemistry (4-0-4). Prerequisite: CHM 262 or CHM 272. Corequisite: CHM 316. Theory and techniques of gravimetric and volumetric analysis, and fundamentals of electroanalytical chemistry.

CHM 315 Survey of Analytical Chemistry Laboratory (0-4-2). Prerequisite: CHM 267 or CHM 277. Corequisite CHM 310. Classical analytical techniques: potentiometry and selective ion electrodes, solution and flame spectroscopy, infrared spectroscopy, gas chromatography.

CHM 316 Analytical Chemistry Laboratory (0-3-2). Prerequisite: CHM 267 or CHM 277. Corequisite: CHM 311. Selected experiments designed to reinforce concepts covered in CHM 311.

CHM 320 Survey of Physical Chemistry (4-0-4). Prerequisites: MTH 182 and PHY 222 or PHY 242 or PHY 244 and CHM 262 or CHM 272. A less rigorous survey of physical chemistry designed for preprofessional majors.

CHM 321 Physical Chemistry I (4-0-4). Prerequisite: MTH 281 or MTH 283 and PHY 242 or PHY 244 and CHM 262 or CHM 272. Behavior of gases, thermochemistry, spontaneity, equilibrium, phase rule, colligative properties, ideal and real solutions, condensed phases, electrochemistry, and introduction to chemical kinetics.

CHM 322 Physical Chemistry II (4-0-4). Quantum chemistry, spectroscopy, introduction to statistical mechanics, kinetic theory of gases, and theoretical kinetics.

CHM 331 Organic Chemistry I (4-0-4). Prerequisite: CHM 262 or CHM 272. Modern presentation of organic chemistry stressing theory and mechanism; extensive use of resonance and conformational analysis; and alkanes, cycloalkanes, alkyl halides, alcohols, ethers, alkenes, alkynes, and stereochemistry. CHM 336 should be taken concurrently.

CHM 332 Organic Chemistry II (4-0-4). Prerequisite: CHM 331. Continuation of CHM 331. Spectroscopy, aromatic compounds, aldehydes and ketones, carboxylic acids and their derivatives, amines, and polyfunctional compounds. CHM 337 should be taken concurrently.

CHM 336 Organic Chemistry Laboratory I (0-3-2). Prerequisites: CHM 262 or CHM 272 and CHM 267 or CHM 277. Corequisite: CHM 331. Organic chemistry laboratory exercises to accompany CHM 331.

CHM 337 Organic Chemistry Laboratory II (0-3-2). Prerequisites: CHM 331 AND CHM 336. Corequisite: CHM 332. Organic chemistry laboratory exercises to accompany CHM 332.

CHM 338 REEL Organic Chemistry Laboratory (0-6-2). Prerequisites: CHM 331, CHM 336, and instructor approval. Corequisite: CHM 332. Designed to provide chemistry research experience to enhance learning (R.E.E.L.). May substitute for CHM 337.

CHM 341 Pharmacology I (3-0-3). Prerequisites: CHM 332 and CHM 337 or their equivalent. Corequisite: CHM 402 is strongly recommended. First of a two-course sequence in pharmacology. General aspects of pharmacology, drug effects on the nervous system and neuroeffectors, psychopharmacology, depressants and stimulants of the central nervous system, anesthetics, drugs used in cardiovascular diseases, drug effects on the respiratory tract, drugs that influence metabolic and endocrine functions, chemotherapy, principles of toxicology, etc..

CHM 342 Pharmacology II (3-0-3). Prerequisite: CHM 341. Second of a two-course introduction to pharmacology. Study of human disease processes and the specific rational pharmacotherapeutics relating to the cardiovascular, respiratory, renal, hematological, and dermatologic systems as well as eyes, ears, nose and throat. Specific drug's indications, contraindications, mechanism of action, side effects, dosages, and methods of administration will be presented.

CHM 351 Medicinal Chemistry I (3-0-3). Prerequisites: CHM 332 and CHM 337 or their equivalent. Corequisite: CHM 402 is strongly recommended. First of a two-course sequence in medicinal chemistry. Structure-activity relationships, molecular features of drugs, mechanisms of drug action, design and development of drugs, drug names and nomenclature, and therapeutic applications of drugs.

CHM 352 Medicinal Chemistry II (3-0-3). Prerequisite: CHM 351. Second of a two-course introduction to medicinal chemistry. Continuation of the topics from CHM 351.

CHM 369 Independent Study (variable 1 – 4). Prerequisite: Approval of departmental faculty member. Content and credit (up to four credits) as arranged with instructor>

CHM 369H Honors Independent Study (variable 1- 4). Prerequisite: Approval of departmental faculty member. Content and credit (up to four credits) as arranged with instructor. Graded S/U.

CHM 380 Principles of Chemistry for Middle School Teachers (5-0-5). This course will provide the content, knowledge and skills of scientific inquiry necessary for teaching chemistry in the middle school.

CHM 401 Chemical Information (2-0-2). Prerequisite: CHM 332 or equivalent. The chemical literature and access to the information it contains, automated chemical filing systems and computerized database searches.

CHM 402 Biochemistry I (3-0-3). Prerequisite: CHM 332. Chemistry of carbohydrates, lipids, proteins, nucleic acids, vitamins and hormones, with major emphasis on biochemical processes in human cells and organs and enzyme kinetics, and energetics of metabolic reactions.

CHM 403 Biochemistry II (3-0-3). Prerequisite: CHM 402. Metabolism of carbohydrates, lipids, proteins, nucleic acids, vitamins and hormones, with major emphasis on metabolism within human cells.

CHM 404 Environmental Chemistry (3-0-3). Chemical aspects of environmental problems including air and water pollution, solid waste, toxic substances, and related topics.

CHM 406 Environmental Chemistry Laboratory (0-3-2). Prerequisites: CHM 316 and CHM 331. Selected experiments designed to reinforce concepts covered in CHM 404, with emphasis on standard methods of analysis of air and water samples.

CHM 407 Environmental Toxicology (3-0-3). Prerequisite: one year of natural sciences or permission of instructor. Topics on the impact of environmental pollutants on humans.

CHM 410 Electronics (2-3-4). Prerequisite: CHM 411 or equivalent. Introductory modular approach to analog and digital electronics including processing of signals, display of results, and control of experimental parameters.

CHM 411 Instrumental Analysis (3-0-3). Prerequisites: CHM 316 and C or better in CHM 311. Basic theory and techniques of instrumental methods of analysis, with emphasis on spectrophotometry, X-ray, NMR, chromatography, and mass spectrometry.

CHM 416 Instrumental Analysis Laboratory (0-6-4). Prerequisites: CHM 311 and CHM 316. Selected experiments designed to reinforce concepts covered in CHM 411.

CHM 417 Forensic Chemistry (2-2-3). Prerequisite: CHM 411. A general overview of the prevalent chemical principles, methods, and instrumentation involved in the analysis of physical evidence.

CHM 421 Special Topics in Physical Chemistry (4-0-4). Prerequisite: CHM 322 or equivalent or instructor approval. Discussion of special topics in physical chemistry reflecting student and faculty interests.

CHM 423 Statistical Thermodynamics (4-0-4). Prerequisite: CHM 322 or equivalent. Fundamentals of statistical mechanics, distribution laws, and development and application of partition functions to the evaluation of thermodynamic properties of chemical substances.

CHM 424 Chemical Kinetics (4-0-4). Prerequisite: CHM 322 or equivalent. Principles of rate processes considered and applied to chemical kinetics, investigation of uni- and bi-molecular reactions, and effects of isotopic substitution.

CHM 426 Physical Chemistry Laboratory I (0-4-3). Prerequisites: CHM 321 or equivalent. Selected experiments in physical chemistry.

CHM 427 Physical Chemistry Laboratory II (0-4-3). Prerequisites: CHM 322 and CHM 426. Selected experiments in physical chemistry.

CHM 431 Advanced Organic Chemistry (2-0-2). Prerequisite: CHM 332 or equivalent. Applications of spectroscopic techniques in the study of organic reactions and compounds.

CHM 441 Inorganic Chemistry (4-0-4). Prerequisite: CHM 321. Corequisite: CHM 322. Consideration of the elements and their compounds based on electronic structure, molecular orbital theory, shape and structure of molecules, and ligand field theory.

CHM 444 Pharmacokinetics (3-0-3). Prerequisites: CHM 342 and CHM 352; MTH 182. Mathematical description of drug absorption, distribution, metabolism and excretion. Includes a variety of methods by which drug concentrations in biological matrices and formulations are determined. Mathematical modeling involves the determination of the best parameter values for models used to fit experimental data determined in pharmacokinetic studies of clinical uses of pharmacokinetics.

CHM 446 Inorganic Chemistry Laboratory (0-3-2). Corequisite: CHM 441. Selected experiments in inorganic chemistry.

CHM 449 Pharmaceutical Science Practicum (0-12-4). Prerequisites: Senior status in any BSPS track. Practical experience at a relevant, off-campus pharmaceutical science-related site.

CHM 455 Biotechnology Techniques (1-5-4). Prerequisite: CHM 402, CHM 411, and CHM 415. Techniques of immunoassays and techniques of isolation, manipulation, and analysis of proteins/nucleic acids are covered. Includes both lecture and laboratory.

CHM 461 Polymer Chemistry (3-0-3). Prerequisite: CHM 332. Consideration of polymer structures and properties; kinetics and mechanism of polymerization, copolymerization and polycondensation.

CHM 469 Independent Study (v.1-6). Prerequisite: Approval of departmental faculty member. Content and credit (up to 4 credits) as arranged with instructor. Graded S/U.

CHM 469H Honors Independent Study (v.1 – 4). Prerequisite: Approval of departmental faculty member. Content and credit (up to 4 credits) as arranged with instructor. Graded S/U.

CHM 471 Faculty Colloquium (1-0-1). Prerequisite: Senior standing in chemistry. Research seminars presented by faculty. Graded S/U.

CHM 472 Student Colloquium (1-0-1). Prerequisite: Senior standing in chemistry. Seminars presented by students.

CHM 479 Advanced Chemistry Lab (v.1-11). Prerequisite: Approval of advisor. An advanced laboratory program in selected techniques to be determined by the needs and interests of the student. Offered every semester. Graded S/U.

CHM 489 Senior Research (v,1-6). Prerequisites: CHM 401 and senior standing in chemistry. Design and execution of experiments, recording and reporting of results. Requires written reports on specific problem. May be repeated for up to six credits. Graded S/U.

CHM 489H Honors Senior Research (v,1-6). Prerequisite: Honors standing or permission of university Honors Program, CHM 401 and senior standing in chemistry. Design and execution of experiments, recording and reporting of results. Requires written reports on specific problem. May be repeated for up to six credits. Graded S/U.

CHM 496 Forensics Internship (0-9-3). Prerequisites: All other courses required for forensic chemistry certificate. Practical experience at a relevant, off-campus forensics lab.

CHM 497 Topics in Chemistry (v,1-6). Prerequisite: Instructor approval. Discussion of selected topics in chemistry as determined by faculty and student interest.

Chinese Courses

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Faculty

Link to Profiles of Full-time Department Faculty

Professor: Tama Engelking (Chairperson).

Course Descriptions

Students with native experience in Chinese may not enroll for credit in 100-level courses in Chinese.

All students with training or experience in Chinese other than a previous course in that language at Cleveland State must consult a counselor in the Department of Modern Languages for assistance in deciding where to enter the Chinese sequence. Failure to seek counseling may result in schedule shifts during the first week of class.

CHN 101, 102 Chinese I, II (4-2-5). Prerequisite: CHN 101: None; CHN 102: Completion of CHN 101 with a "C" or better or permission of instructor. This course covers the essentials of Chinese usage; practice in hearing, speaking, reading, and writing. There is a lab fee.

CHN 193, 293, 393, 493 Special Topics in Chinese (1 to 4 credits). Prerequisite: Permission of instructor. This course involves the study of a particular topic in Chinese language, literature, or civilization. It may be repeated with a change in topic. There is a lab fee.

CHN 201 Intermediate Chinese I (4-0-4). Prerequisite: CHN 102 or the equivalent. The course emphasizes basic structures of standard Mandarin Chinese, and it helps students improve reading, writing, listening and speaking abilities. Chinese culture, society, and people are introduced through supplementary materials and activities.

CHN 202 Intermediate Chinese II (4-0-4). Prerequisite: CHN 201 or the equivalent. This course is a continuation of CHN 201 that builds student skills in reading, writing, listening and speaking. Readings and activities emphasize contemporary Chinese culture and culturally appropriate interactions in a Chinese context.

Civil and Environmental Engineering Courses

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Faculty

Professors: Paul A. Bosela, Norbert J. Delatte, Stephen F. Duffy (Chair), Yung-Tse Hung, Chin Kuo, Mark Tumeo; **Associate Professors:** Philip H. DeGroot, Nilufer Dural, Lutful L. Khan, Walter M. Kocher: **Emeriti:** Paul X. Bellini, William G. Fleck, John Hemann, John J. Tomko.

Course Descriptions

CVE 211 Surveying (3-2-3). Prerequisite: MTH 181. Co-requisite: CVE 212. Theory and techniques of horizontal and vertical distance measurement, angle measurement, theory and adjustment of errors, area and traverse calculations, tacheometry, state plane coordinate system, topographic mapping, horizontal and vertical curves, earthwork calculations, fundamentals of engineering graphics, integration of geometrical theory, and computer-aided drawing.

CVE 212 Intro of Measurements & Numerical Methods for Civil Engineers (1-2-2). Co-requisite: CVE 211. Practical application of theory learned in CVE 211: the development of practical skills in AutoCad and other important Civil Engineering software applications; and a basic understanding of data manipulation in design drawing through the collection and manipulation of field surveying data. Course will involve measurement of horizontal distances, horizontal angles, and elevations, conducting location surveys, and use of various software tools to manipulate data and develop and draw construction plans.

CVE 310 Strength of Materials Laboratory (1-2-2). Laboratory testing of engineering materials to determine physical properties and to verify basic theories. ESC 211 must be taken concurrently.

CVE 312 Structural Analysis 1 (3-0-3). Prerequisite: ESC 211. Truss and frame analysis, influence lines and load position criteria, deflection analysis, analysis of indeterminate structures by compatibility methods, moment distribution method, slope deflection method.

CVE 322 Structural Steel Design (3-0-3). Prerequisite: CVE 312. Design of structural steel components subject to tensile, compressive, bending and combined bending and compressive loadings; design of bolted and welded connections.

CVE 331 Introduction to Geotechnical Engineering (3-0-3). Prerequisite: ESC 211. Phase relationships, index properties, soil classification, clay mineralogy and soil structure. Soil-water interaction; capillarity, shrinkage and swelling, permeability seepage and effective stress, shear strength and consolidation theories, slope stability.

CVE 332 Geotechnical Engineering Laboratory (1-2-2). Corequisite: CVE 331. Performance of basic soil tests, such as Atterberg limits, grain size analysis, compaction, consolidation, and triaxial testing.

CVE 360 Mechanics of Fluids and Basic Thermal Systems for Civil Engineers (4-0-4). Prerequisites: ESC 201 and ESC 250. This course provides the students with a comprehensive study of mechanics of fluids and an exposure to key concepts from thermodynamics and heat transfer, tailored for civil and environmental engineering disciplines.

CVE 361 Hydraulic Engineering (3-0-3). Prerequisite: CVE 360. Application of the principles of fluid mechanics to the design and operation of pipeline, pump, open channel, and ground water hydraulic systems. Introduction to hydrology.

CVE 362 Hydraulics Laboratory (1-2-2). Prerequisite or Corequisite: CVE 361. Experimental verification of pump, open channel, and ground water energy loss theory. Measurement of pipe and open channel flow. Determination of centrifugal pump operating characteristics.

CVE 371 Environmental Engineering I (3-0-3). Prerequisite: CVE 360. Co-requisite: CVE 374. Introduction to environmental engineering issues, legal aspects, engineering solutions, and basic approaches to abatement system design. Includes water quality, water supply, wastewater treatment systems, air pollution abatement, fate of pollutants, solid wastes, hazardous wastes, hazardous materials management, and environmental impacts.

CVE 374 Environmental Engineering Laboratory (1-2-2). Pre-requisites: CHM 261, CHM 266, ESC 201, and CVE 360. This course must be taken concurrently with CVE 371. The objective of the laboratory course is to demonstrate the application of basic chemistry, biology and thermodynamics to environmental engineering, laboratory methods and interpretation of result to provide the student with a strong fundamental understanding of environmental engineering issues and engineering solutions. The laboratory course will supplement and help demonstrate the application of the fundamental science concepts required to understand and solve environmental engineering issues. Students will learn basic sampling, laboratory methods and data analysis techniques as applied to treatment and remediation system designs.

CVE 392H – Junior Honors (credit as arranged). Prerequisites: Junior standing, and approval of student's honors advisor. Student will enroll in an existing 300-level course in the department. The course will be modified to provide additional material appropriate to an honors course. The course modifications will be arranged by mutual consent between the student, the course instructor, the student's honors advisor, and the student's department undergraduate advisor. May be repeated for credit.

CVE 401 Structural Engineering Laboratory (0-3-1). Prerequisite: CVE 422. Laboratory work in testing of structural engineering materials and components; proportioning of concrete mixes; testing of concrete cylinders, beams, and reinforcing bars.

CVE 403 Construction Planning and Principles of Estimating (3-0-3). Prerequisites: CVE 322, CVE 331. Types and uses of construction equipment and study of construction procedures; study of different types of estimates, direct and indirect costs, insurance, taxes, and bonds; analysis of construction schedule planning by CPM or PERT.

CVE 404 Civil Engineering Systems Analysis (4-0-4). Prerequisite: Senior standing. Application of standard mathematical optimization procedures to the solution of linear and nonlinear civil engineering systems.

CVE 412 Structural Analysis II (3-0-3). Prerequisites: CVE 312, ESC 350. Matrix analysis of two- and three-dimensional trusses, continuous beams, and frames; emphasis on the displacement method and stiffness matrix development. Use of AutoCad and an ALGOR software program are required.

CVE 413 Advanced Strength of Materials (4-0-4). Prerequisite: ESC 211. This course will foster an understanding of a number of advanced concepts in the field of engineering mechanics. Topics include three-dimensional stress-strain relationships, failure theories, bending of non-symmetrical members, curved beam theory, beams on elastic foundations, torsion of noncircular shafts using membrane analogy, and plate theory.

CVE 414 Analysis and Design of Composite Materials (4-0-4). Prerequisite: ESC 211. Behavior of unidirectional composites, rule of mixtures, short-fiber composites, analysis of orthotropic lamina, analysis of laminated composites, design of polymer composite structures, and repair of reinforced concrete structures with composite materials.

CVE 415 Reliability (4-0-4). Prerequisites: Senior standing. Structural reliability depends on a precise definition of failure, which is usually specified by loss of service. In order to quantify reliability, a basic review of reliability mathematics, including probability density functions and hazard rate functions, is provided. Aspects of Monte Carlo and decision tree analysis will be discussed as they relate to structural analysis. Since there is appreciable scatter in the failure strength of brittle materials (such as ceramics and concrete) the concepts of Weibull analysis and weakest link theory will be thoroughly discussed. Bundle theory and its relationship to composite materials will be introduced. Standard techniques to estimate statistical parameters such as linear and nonlinear regression analysis, as well as maximum likelihood estimation methods will be highlighted. Finally, issues relating to limit state functions, the reliability index, and approximate methods will be discussed.

CVE 417 Structural Vibrations (4-0-4). Prerequisites: ESC 202, ESC 250, CVE 312. Dynamic response of single and multiple degree-of-freedom and continuous structural systems to general force inputs by integration and modal methods, approximate design methods of structural systems under dynamic loading.

CVE 421 Behavior and Properties of Concrete (3-0-3). Prerequisite: CVE 422. Properties of hydraulic cements, aggregates, plastic, and hardened concrete; effect of admixtures and curing conditions; specifications and acceptance tests; placement, consolidation, finishing, and durability of concrete.

CVE 422 Reinforced Concrete Design (3-0-3). Prerequisite: CVE 322. Analysis and design of reinforced concrete members by service and ultimate strength methods; flexure, shear, displacement, and anchorage of beams; combined axial and bending stresses in columns; one-way slabs and continuous beams.

CVE 423 Prestressed Concrete (3-0-3). Prerequisite: CVE 422. Immediate and long-term stress losses in post-tensioned and pre-tensioned members; analysis and design of prestressed structural members for flexure and shear; proportioning of members for size and placement of reinforcement; analysis of crack width, development, and deflection.

CVE 424 Non-Destructive Evaluation (3-2-4). Theory, methods, applications, and case studies of nondestructive evaluation for detecting and evaluating flaws and estimating the engineering properties of materials. Methods covered such as ultrasonics, acoustic emissions, impact-echo, seismic waves, ground penetrating radar, and thermal methods, with hands-on applications in a laboratory setting.

CVE 425 Advanced Structural Design (3-0-3). Topics in reinforced concrete and steel design, plastic design of beams and frames, composite construction, plate girder design, torsion, two-way slab design and limit state design.

CVE 426 Preliminary Design (0-3-2). Prerequisite: Senior standing. A capstone course which applies and extends previously developed principles of civil engineering. Students will form teams and work on design projects under the supervision of civil engineering faculty in the various areas offered by the faculty. Computer-aided analysis, cost estimation, planning, and management should be included in the design. Registration must be for two consecutive semesters of 2 credits each.

CVE 427 Capstone Design (0-3-2). Prerequisite: CVE 426. A capstone design course which applies and extends previously developed principles of civil engineering including engineering standards and realistic constraints. Students work in multi-disciplinary teams on planning, design and analysis of a civil project, involving as much as possible all major aspects of the civil engineering profession. Computer-aided analysis, cost estimation, planning and management should be included in the design.

CVE 428 Structural Wood Design (4-0-4). Prerequisite: CVE 322. Vertical dead and live loads due to gravity, roof, and floor. Lateral design loads due to wind and seismic. Properties and grades of sawn lumber and glulam members; modification factors of allowable stresses; analysis and design of sawn and glulam beams for flexure and lateral stability, shear, bearing, and deflections; analysis and design of axially loaded members, combined axial, and bending effects. Properties and grades of plywood and other rated sheathing; analysis and design of horizontal diaphragms, chords, drag struts, and shearwalls. Design of nailed, bolted connections; timber connectors and connection hardware.

CVE 429 Foundation Engineering (3-0-3). Prerequisites: CVE 331 and CVE 332. Subsurface exploration, bearing capacity analysis, shallow foundation design; spread footing, combined footing and mat footing. Lateral earth pressure theory; retaining wall design; sheet piles; deep foundations; piles and caissons; soil improvement.

CVE 430 Advanced Soil Mechanics (3-0-3). Prerequisite: CVE 331 and CVE 332. Soil mineralogy, determination of soil composition, clay-water electrolyte systems, soil composition, and engineering properties. Conduction phenomenon. Frozen soil engineering.

CVE 431 Advanced Foundations (3-0-3). Prerequisite: CVE 429. Subsurface explorations, shallow foundations, design of spread footings, mats, retaining walls, deep foundations, design of piles, piers and caissons.

CVE 440 Soil Stabilization and Decontamination (3-1-3). Prerequisites: CVE 331 and CVE 373. Engineering classification of soils; clay mineralogy; properties of different types of soils including strength, permeability, volume-density and characteristics; soil contaminant interaction, methods of soil stabilization, methods of soil decontamination, process selection, and site remediation. Soil decontamination design project.

CVE 441 Traffic Flow Theory (4-0-4). The Traffic Flow Theory course provides the basic concepts and theories of traffic flow characteristics and the associated analytical techniques. This course reviews the foundations of traffic science and

presents the major classes of models derived for traffic flow. Recent developments and topics of current research are introduced. The course also addresses the implications of the models and the traffic system properties for traffic operations and control.

CVE 442 Urban Transportation Planning (4-0-4). Focus on factors involved in the process of urban planning and regional transportation systems, encompassing all modes. Provides students with theory and applications of urban transportation planning studies, traffic models, investment models, programming and scheduling..

CVE 446 Transportation Engineering (3-0-3). Prerequisite: CVE 211. Survey of transportation development, characteristics, and planning; traffic characteristics capacity of various systems, including basic procedures, controls, and criteria in highway design; environmental considerations.

CVE 447 Highway Engineering (4-0-4). Prerequisite: CVE 331. Properties of materials used in highway construction. Effects of loading and the environment on pavement life. Design of flexible and rigid pavement systems. Construction methods and management.

CVE 450 Environmental Technology (3-0-3). Introduction to environmental quality, water resources, wastewater treatment, air pollution, solid and hazardous waste management, waste site remediation. Emphasis on solutions to business, industrial, and manufacturing problems; including site audits, pollution prevention and regulatory issues. (This course is for non-engineers only.)

CVE 451 Boundary Surveying (3-0-3). Prerequisites: CVE 211 and CVE 212. The land surveyor's role, analysis of evidence and procedures for boundary locations, retracement principles for sequences, simultaneous and public surveys, laws on surveying practices. (Surveying Certificate Program only.)

CVE 452 Real Estate Law (3-0-3). Prerequisites: CVE 211 and CVE 212. Legal aspects of real estate transactions and documents (deeds, mortgages and leases) and selected elements of the law of real estate brokerage. (Surveying Certificate Program only.)

CVE 453 Subdivision Design (3-0-3). Prerequisites: CVE 211 and CVE 212. Process of subdividing and platting land; analysis of soils, topography, terrain, earthwork, geometry and other variables for land subdivision; plat preparation; layout of development plans. (Surveying Certificate Program only.)

CVE 454 Route Surveying (3-0-3). Prerequisites: CVE 211 and CVE 212. Route surveying and geometric design; topographic site surveys and mapping; civil engineering and construction surveys; earthwork computation; layout of industrial plants, buildings, cables, pipelines and manufacturing. (Surveying Certificate Program only.)

CVE 461 Hydrologic Analysis (3-0-3). Prerequisite CVE 361. Characterization and analysis of the hydrologic cycle and associated hydrologic abstractions. Statistical analysis of hydrologic events, hydrologic routing, and the effects of urbanization on the hydrologic response of a watershed.

CVE 462 Open Channel Hydraulics (3-0-3). Prerequisite: CVE 361. Application of the principles of the conservation of mass, energy, and momentum to open channel flow phenomena. Analysis of open channel hydraulic structures and floodplain hydraulics. Emphasis is on computer applications and numerical methods.

CVE 463 Water Resources Engineering (3-0-3). Prerequisite: CVE 361. Analysis and hydraulic design of water resource engineering subsystems including subsurface drainage, pressure flow systems, pumps and turbines, reservoirs, spillways, and landfills.

CVE 464 Ground-Water Hydrology (3-0-3). Analysis of the physical properties and the resultant ground water flow in porous media. Application of the principles of the conservation and mass, energy, and momentum to ground water flow systems. Includes well hydraulics, well design, aquifer analysis, infiltration, flow in the unsaturated zone, and an introduction to ground water contamination.

CVE 470 Environmental Chemistry (4-0-4). Theoretical concepts from inorganic, organic, and physical chemistry applied to water chemistry and environmental engineering issues.

CVE 471 Environmental Law, Regulation and Compliance (4-0-4). The study of environmental legislation and the resultant regulations as they apply to the environmental engineering profession. Addresses federal, state, and local regulations as applied to soil, water, air, and multimedia engineering activities.

CVE 472 Biological Principles of Environmental Engineering (4-0-4). Application of the principles of biochemistry and microbiology including microbial metabolic cycles, enzyme systems, inhibitors, and electron transport mechanisms important to the water and wastewater treatment processes.

CVE 473 Environmental Engineering II (3-0-3). Prerequisite: CVE 371. Introduction to environmental engineering design of unit processes and pollution abatement systems. Topics include water treatment plant design, wastewater treatment plant design, air pollution abatement systems, solid waste engineering management, hazardous waste engineering management, and waste site remediation.

CVE 475 Solid and Hazardous Waste Engineering (4-0-4). Generation, storage, collection, transfer, treatment, and disposal of solid waste. Addresses engineering and management issues including waste minimization and recycling.

CVE 476 Environmental Health Engineering (4-0-4). The application of engineering principles to the analysis and control of problems in occupational and environmental health, with emphasis on problems in small water and wastewater treatment systems, industrial hygiene, air pollution, noise, hazardous materials control, and public health.

CVE 478 Water Treatment Plant Design (4-0-4). Design of water treatment and distribution systems, engineering principles in design, selection of alternative process schemes, and cost estimates.

CVE 479 Wastewater Treatment Plant Design (4-0-4). Design of wastewater treatment and collection systems, engineering principles in design, selection of alternative process schemes, and cost estimates.

CVE 481 Air Pollution (4-0-4). Prerequisite: CVE 470. Types of air pollutants, and their sources, characteristics, environmental effects, control, and environmental fate. Dispersion modeling.

CVE 490 Special Topics (1 to 4 credits). Prerequisites: Senior standing and departmental approval. Detailed study of a special topic under the guidance of a faculty member. Available every semester.

CVE 491 Advanced Civil Engineering Design or Research I (1 to 4 Credits). Prerequisite: Senior standing. Advanced design or research under the direction of an instructor. Available every semester.

CVE 492H – Senior Honors (credit as arranged). *Prerequisites: Senior standing, and approval of student's honors advisor.* Student will enroll in an existing 400-level course in the department. The course will be modified to provide additional material appropriate to an honors course. The course modifications will be arranged by mutual consent between the student, the course instructor, the student's honors advisor, and the student's department undergraduate advisor. May be repeated for credit.

CVE 495H – Honors Research (credit as arranged). *Prerequisites: Junior or Senior standing, and approval of student's honors advisor.* Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student's honors advisor, and the department's undergraduate advisor. May be repeated for credit.

CVE 499H – Honors Thesis (credit as arranged). *Prerequisites: Senior standing, and approval of student's honors advisor.* Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student's honors advisor, and the department's undergraduate advisor. The culmination of this course is a written thesis that is approved by a committee of departmental faculty members. The student will also present a public, oral defense of the thesis. May be repeated for credit.

Classical and Medieval Studies Courses

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- To Classical & Medieval Studies Major
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Faculty

Link to Program Personnel

Professors: Elizabeth Lehfeldt, Gregory M. Sadlek; **Professors Emeriti:** Earl R. Anderson, Bruce A. Beatie, John A.C. Greppin, Edward R. Haymes, Nicholas J. Moutafakis, Glending Olson; **Associate Professors:** Michael Baumer, Stephen Cory, Matt Jackson-McCabe, Derwood C. Smith, Laura Wertheimer (Director); **Assistant Professors:** Marian Bleeke, Heba El-Attar, Stella Singer, Abed el-Rahman Tayyara, Kelly Wrenhaven.

Course Descriptions

CLM 293/393/493 Special Topics in Classical and Medieval Studies (1 to 6 credits). Focus on some topic in classical and medieval studies otherwise not offered. The topic may be an individual author; text, monument; genre; style; historical period; social, philosophical, or religious movement; linguistic problem; or an appropriate combination of these. May be repeated for a total of 24 credit hours with a change in topic.

CLM 495 Seminar (1 to 3 credits). Prerequisite: Permission of the instructor. In-depth study of some area related to classical and medieval studies. May be repeated for a total of 24 credit hours with change in topic.

CLM 498 Senior Thesis Proposal (1-0-1). Prerequisites: Senior standing and permission of the Classical and Medieval Studies Director, and permission of the thesis director. Students will identify a thesis director prior to enrolling in CLM 498. CLM 498 is an independent study course in which students develop a detailed research plan for a thesis focusing on a classical or medieval topic. CLM 498 meets part of the General Education Capstone Experience requirement for the Classical and Medieval Studies major.

CLM 499 Senior Thesis Writing (3-0-3). Prerequisites: Senior standing and permission of the Classical and Medieval Studies Director, and permission of the thesis director. Students will research and write the senior thesis developed in CLM 498. CLM 499 meets part of the General Education Capstone Experience requirement for the Classical and Medieval Studies major.

Notes: Other courses may apply toward the CLAM major and minor. Also, certain special topics courses may apply, if approved by the CLAM Advisory Committee. See individual departmental listing for course descriptions and prerequisites. For additional information, call (216) 687-3914.

Communication Courses

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Faculty

Professors: Robert Abelman, Eileen Berlin Ray, Susan E. Kogler Hill (Emeritus), Leo W. Jeffres, Sidney Kraus (Emeritus), Jae-won Lee (Emeritus), Kimberly A. Neuendorf, Richard M. Perloff, George B. Ray (School Director), Jill E. Rudd; **Associate Professors:** Cheryl Bracken, Edward Horowitz, Guowei Jian, Evan Lieberman, Gary Pettey, Michael H. Rand, Paul D. Skalski; **Assistant Professors:** Elizabeth Babin, Jinhee Kim, Anup Kumar, Yung-I Liu, Robert Whitbred; **Term/Adjunct Faculty:** John Ban, Frances Dalisay; **Professional Staff/Faculty:** Richard Pitchford.

Course Descriptions

COM 100/200/300 Communication Lab (1 to 6 credits). These are practical workshops and labs designed to develop communication skills. Students may apply material from accompanying lecture courses (with which the lab may be coordinated) to specific communication problems or participate in special stand alone workshops. These may be repeated as topic varies.

COM 101 Principles of Communication (4-0-4). This course reviews principles of communication and introduces theories applied in various contexts, including interpersonal, organizational, and mass communication. Lab experiences help students develop specific communication skills and apply theories in their everyday lives.

COM 131 Media Mystery Tour: Insiders' Perspective (4-0-4). Through a combination of videotaped interviews, lectures, discussions and electronic field trips, you are introduced to the processes that form visual communication. Professionals in broadcast, video and audio production, corporate and organizational video, cable television and emerging technologies explain how they work their crafts. Emphasis is placed on developing an informed and critical understanding of the nature of media, how the media work, how they are organized and how they construct reality. You are introduced to the language and syntax of moving image communication and offered an opportunity to develop and understand these skills for effective communication.

COM 204 Single Source Video/Audio Production and Editing (4-4-4). Prerequisite: COM 101. Students are introduced to visual storytelling and writing for the ear. Concepts such as single-camera production, including composition and movement, moving image sequencing (such as cut-ins and cut-always), shooting for the edit, and three-point lighting are stressed. Students learn operation of camcorders, portable audio recorders, and video editors. Single microphone techniques, cueing, digital audio editing, and dubbing of various audio media are also introduced. This course includes a lab component.

COM 211 Communicating in Personal Relationships (4-0-4). This course examines the fundamental role of communication in establishing and maintaining personal relationships. By surveying the leading research and theories in interpersonal communication, it engages students in the detailed analysis of how individuals enter into, maintain, and terminate relationships. Conceptual perspectives examined include communicative competence, relational development, interaction process, codes, and context.

COM 221 Introduction to Film (4-0-4). The course explores the range of film styles, movements, and genres; the relationship between theory and technique in the "language" of sounds and images; and the economic and social importance of film. It includes the screening and analysis of classical and contemporary films, both U.S. and international.

COM 225 Media Writing (4-0-4). This course focuses on the development of basic writing skills for journalists and other media professionals, including judging news values, following the inverted pyramid style of writing, and using the AP style and copy-editing techniques. It also includes the development of major news-gathering tools such as interviewing and covering traditional sources of news--meetings, speeches, and press conferences--and the application of journalistic forms and tools for print and electronic media and public relations.

COM 226 Mass Media and Society (4-0-4). Prerequisite: COM 101 or permission of instructor. This course examines basic theoretical concepts and models underpinning the study of mass communication, including processes of message construction in media organizations, content patterns, audience message processing, media effects, media systems, and relationships with other systems.

COM 231 Evolution of Mass Media (4-0-4). This is a survey course tracing the origin and growth of mass media in the United States. It presents an overview and analysis of the influence of media upon American society.

COM 240 Professional Communication (4-0-4). The course is designed to expose students to the theories, skills, and strategies needed to become effective communicators in business and professional settings. Students who successfully complete the course should be able to 1) recognize and describe the array of specific business/professional situations in which effective communication is expected; 2) understand and explain the responsibilities, expectations, and dynamics of human communication in those business/professional situations: and 3) choose appropriate communication strategies and use effective communication skills in writing and presentation.]

COM 242 Public and Professional Speaking (2-1-3). This course focuses on organizing and presenting informative and persuasive speeches, with stress on evidence and reasoning to support ideas, and adapt to the audience and speaking situation.

COM 293 Special Topics in Communication (2-4 credits). Prerequisite: Permission of instructor. The course covers topics of interpersonal, mass, or telecommunication that change each semester, and it focuses on communication skills. It may be repeated once.

COM 301 Broadcast and New Media Writing (4-0-4). Through a combination of writing assignments, lectures and discussions, this course familiarizes students with various types of writing used in new media, broadcast media and allied fields. Special emphasis is put on television and radio news writing, and on writing commercials and PSAs (public service announcements) for TV and radio. Students also learn about the use of broadcast style writing in non-broadcast applications such as corporate and organizational video, internet sites and writing for emerging media.

COM 303 Communication Inquiry (4-0-4). Prerequisite: COM 101 or permission of instructor. This course focuses on understanding methods of inquiry in communication, including social science orientation, quantitative and qualitative methods for gathering and analyzing data, and critiquing and interpreting research. It also covers theory, design, and basic statistics involved in survey and experimental research. Students are actively involved in data collection and research projects.

COM 310 Psychological Processing of Media (4-0-4). Prerequisite: COM 226. Examines how people process information from mass and interactive media, including both traditional and emerging media. The class focuses on both psychological and communication issues, applying theories to media use, impact of media on consumers, and ways to design more effective media environments.

COM 315 Photojournalism (4-0-4). This is an introductory photojournalism course focusing on the importance of documentary photography its history and relevance to today's world. The course familiarizes students with the principles of photojournalism, explores content of different types of photographs published in newspapers, magazines, the internet and other media. Other topics include new judgments, ethics in the digital age, and responsibilities of the photographer.

COM 320 History of the Moving Image (4-0-4). Prerequisite: COM 221, COM 226, or permission of instructor. This course is the historical study of silent and sound film styles in their social, economic, and technological contexts. Film influence by both U.S. and international films on early television production is also considered.

COM 321 Documentary Form in Film and Television (4-0-4). Prerequisite: COM 221 or permission of instructor. This course covers the history, theory, and contemporary practice of nonfiction film and film-for-television. It involves intensive analysis of selected films and tapes.

COM 325 Screenwriting (4-0-4). Prerequisite: COM 221 or a film course. This course examines the tools of writing for the screen. Students learn standard formats of screenwriting. The class includes the analysis of published screenplays, the development of character and story, and the presentation of student works for constructive comment and criticism.

This intensive scriptwriting class is intended to help students construct and write a short film or the first act of a feature-length narrative.

COM 326 Advanced Reporting (4-0-4). Prerequisite: COM 225.This course focuses on the development of advanced information-gathering skills for the media, with an emphasis on the use of public records, observational techniques, electronic data bases, and interviewing techniques. It covers various public and urban affairs contexts for the media, and some specialized writing forms, including writing news features and writing for the Internet.

COM 327 Media Criticism (4-0-4). This course introduces criteria for determining social responsibilities and judging the performance of print, broadcast, and film media. It also addresses history, analysis, and evaluation of technique, content, and aesthetic effect of media messages.

COM 328 Specialized Writing (4-0-4). Prerequisite: COM 225 or permission of instructor. The course develops advanced reporting and writing skills using the journalistic personal essay form. The course introduces students to the personal essay and noted works by well-known writers.

COM 329 Contemporary Film (4-0-4). Prerequisite: COM 221 or permission of instructor. The course explores and examines structures of narrative filmmaking for cinema and television presenting the modern era. It examines cinematic practices outside and inside of the domestic U.S., market influence, the influence of the development of television, the economic expansion of the Hollywood apparatus, and cinema in opposition to dominant culture.

COM 330 Nonverbal Communication (4-0-4). This course is the study of nonlinguistic and paralinguistic aspects of communication, including personal space, body language, eye contact, touching, and paralanguage. It alsosurveys the research in the field along with class experiences in nonverbal communication.

COM 331 Gender and Communication (4-0-4). The course explores the relationship of gender to the communication process. It examines issues of power, conflict, sex role stereotypes, and cultural patterns of interaction on interpersonal relationships.

COM 332 Interracial Communication (4-0-4). This course applies communication theory to interracial situations, problem-solving in interracial groups, blockages to successful relations between the races, stereotyping, prejudice, and roles.

COM 341 Group Process and Leadership (4-0-4). This course examines the structure and dynamics of groups, the nature and function of leadership, problem-solving and decision-making, communication networks, role differentiation, and group growth.

COM 345 Film Theory (4-0-4). This course focuses on theories used in the scholarly analysis of film. The focus of discussion includes methods of close analysis and basic concepts of film form, technique and style; industrial/critical categories of genre and authorship (studios, stars, directors); aspects of the cinema as a social institution, psycho-sexual apparatus and cultural practice; and the relationship between filmic texts and the historical horizon of production and reception.

COM 346 Communication in Organizations (4-0-4). The course explores approaches and processes of communication in organizational settings. Specific focus is on structure and function of messages and information dissemination, as well as application of theory.

COM 347 Political Communication (4-0-4). The course introduces students to contemporary and historical scholarship of politics, mass media, and public opinion. It examines such issues as the impact of television on elections, the press and the presidency, political advertising, presidential debates, and opinion polling. It explores theories and research on mass media and elections.

COM 348 Intercultural Communication (4-0-4). The course analyzes the cultural dimensions of communication with emphasis on interpersonal and social encounters. It examines the cultural foundations of communication behavior, including ethnicity, cultural sensitivity, personal relationships, group processes, verbal and nonverbal communication, and cultural adaptation. Strategies for effective intercultural communication are also discussed.

COM 350 Persuasive Communication and Attitude Change (4-0-4). The course introduces students to the field of persuasion. It examines theories of persuasion, research on persuasive communication, and the formation of social and political attitudes. Topics include the dynamics of attitude change, interpersonal persuasion, brainwashing, subliminal persuasion, and media information campaigns.

COM 351 Audio Production for Radio (4-2-4). Prerequisite: COM 204, COM 231, or permission of instructor. This course focuses on microphone techniques, commercial and news production techniques, radio writing, and operational tasks of broadcast radio and recording studios. Radio formats and program types are studied. Field recording and digital audio editing skills are honed. It includes a lab component.

COM 352 Multi-Source Video Production (4-2-4). Prerequisite: COM 204, COM 231, or permission of instructor. The course focuses on operation of video switcher, teleprompter, lighting board and studio cameras. Students learn television program direction and floor managing. Students study multi-camera production, studio and remote multi-camera lighting, and put knowledge into practice in the lab component. Program types studied include persuasive, news/informational, and entertainment.

COM 353 Media Electronics (4-0-4). Prerequisite: COM 204, COM 352, or permission of instructor. The course covers history, practical application, and basic electronic theory as applied to design, operation, and maintenance of video/audio origination, recording, playback, and distribution equipment. It is designed for majors and non-majors with technical/engineering interests or background.

COM 357 Principles of Public Relations (4-0-4). Prerequisite: COM 225 The course examines the role and context of professional public relations practitioners and development of techniques for ongoing public relations programs, managing crises, and conducting projects and campaigns. It includes the development of particular public relations writing forms, including speeches, press releases, reports, and fact sheets.

COM 358 Media Law, Economics and Ethics (4-0-4). This course examines media law, including First Amendment and administrative law. It focuses on social, political, and economic influences. It examines legal constraints for students planning to become professional communicators.

COM 359 International Communication (4-0-4). This course surveys the global, regional, and national media systems and practices. It examines the role of the mass media in public diplomacy, national development, national policies, cultural interactions, and perceptions and images people develop about other countries, peoples, and the world. It also examines the future of the New World Information and Communication Order.

COM 360 Principles of Advertising (4-0-4). This course presents an overview of the field. It surveys the operational principles and fundamental practices of advertising that include advertising theories, ethics, regulation, research methods, media planning, message strategy and campaign planning strategy. Students also are involved in an advertising campaign project as part of the hands-on exercise in class.

COM 361 Advertising Copywriting and Layout Design (4-0-4). Prerequisite: COM 360. Students learn practical skills in writing copy for advertising and in laying out designs. The course focuses on creative writing exercises, computer graphic designs, portfolio development and the discussion of audience/consumer psychology as well as media use patterns as the basis for copywriting.

COM 362 Health Communication (4-0-4). The course focuses on the interactions of people involved in the health-care process and the dissemination and interpretation of health-related messages. It provides an overview of provider-recipient communication, communication in health-care organizations, and public health concerns as they relate to physical, mental, and social health issues.

COM 363 Advertising Media Planning and Sales (4-0-4). Prerequisite: COM 360. This course introduces students to theory and methods of audience/media research, how to analyze and interpret audience and media research results, strategize sales presentations, and conduct account planning.

COM 364 Advanced Advertising (4-0-4). Prerequisite: COM 360. This course emphasizes both theoretical and practical aspects of advertising. It examines the process by which advertising campaigns are planned, designed, executed and evaluated and various environmental, social and economic factors and considerations which influence this process.

COM 366 Communication and Conflict (4-0-4). This course covers approaches to the management of intra-personal, interpersonal, and societal conflict, game theory, frustration and aggression, and the etiology of conflict;. Role playing and case study methods are supplemented by lecture-discussions and readings.

COM 368 Leadership Communication in Organizations (4-0-4). . This course introduces theories of organizational leadership, emphasizing the role of communication and what distinguishes effective and ineffective leadership. It examines how leadership requirements are changing in the global marketplace. It also helps students understand and advance their own leadership skills through case study discussions and developing a personal leadership profile.

COM 370 Communication Technology and Social Change (4-0-4). This course studies the role of communication in societal change and the diffusion of innovations. Particular emphasis is placed on new communication technologies and the attributes of their adopters, andthe ongoing convergence of such technologies as telephone, broadcasting, film and the Internet.

COM 379 Communication and Negotiation (4-0-4). The course examines basic dimensions and theories of negotiation, and develops an understanding of the significance that communication theory has on the study of negotiation. It also covers conflict resolution in a wide variety of contexts including interpersonal, organizational, community, international, and public policy.

COM 380 Family Communication (4-0-4). The course investigates communication in the family group, with emphasis on functional and dysfunctional ways in which family members relate to one another.

COM 388 The Rhetoric of Black America (4-0-4). This course studies the use of rhetoric by Black Americans as an instrument for modifying social, economic, and political conditions. Materials include speeches and documents by Black American spokespersons.

COM 393 Special Topics in Communication (2-4 credits). Prerequisite: Permission of instructor. This course is comprised of topics of interpersonal, mass, or telecommunication that change each semester and emphasize skills and communication theory. Example: Photojournalism. It may be repeated once.

COM 400 Studio and Media Production Department Management (4-2-4). Prerequisite: COM 204, COM 352, or permission of instructor. This course analyzes and provides practical techniques and procedures of studio and media production department management. Students learn production systems design, production planning and process, facility bookmaking and budgeting. The lab component requires participation in Video/Audio Communication Center productions.

COM 401 Advanced Video/Audio Production (4-4-4). Prerequisites: COM 204, COM 226, COM 352 or COM 225, COM 301, COM 351, COM 404, or permission of instructor. Students produce commercial-grade information, educational, training or marketing programs, or broadcast or cable programs for on- or off-campus clients. There is a lab component. Students also study basic operation of broadcast newsrooms and corporate/organizational video departments. Instructors may rotate from other areas to allow for differing emphasis.

COM 403 Advanced Video/Audio Editing (4-4-4). Prerequisites: COM 204, COM 352, COM 353 and permission of instructor. Students learn operation of nonlinear video editing, and digital audio workstations and digital graphics applications. Students study and practice the concepts of sequencing (including cut-ins and cut-aways), montage, time manipulation, rhythm, and transitions. Students spend considerable lab time outside the classroom.

COM 404 Performance for the Screen: Broadcast and Film (4-2-4). Prerequisites: COM 204 and Theater prerequisites and permission of instructor. Students learn broadcast talent skills for both on- and off-camera work. Delivery styles, dressing for video success, and performance self-criticism techniques are all studied. The role of talent as communicator is emphasized. There is a lab component.

COM 405 Electronic Journalism (4-4-4). Prerequisites: COM 204, COM 225, COM 226, COM 351 or COM 352 and permission of instructor. Students learn to produce news programs and program components through further development of news writing, news talent, and news production skills. Students also learn of the dilemmas faced every day by working broadcast journalists. Ethics and technologies are studied. Also includes elements of Computer-Assisted Reporting and reporting for the Internet. There is a substantial lab component.

COM 410 Film Production I (4-4-4). Prerequisites: COM 204, COM 221, COM 325, COM 345. This course is a production-based exploration of the development and transformation of cinematic practice as communication and art. It is designed to enable students to explore the development of narrative and non-fiction filmmaking through viewing and, centrally, producing work in both 16 mm and digital video formats. The class is intended to follow a course of study in film techniques and aesthetics, culminating in an original filmic work by the student.

COM 411 Film Production II (4-4-4). Prerequisites: COM 204, COM 221, COM 325, COM 345, COM 410. This course is a continuation of COM 410, a production-based exploration of the development and transformation of cinematic practice as communication and art. It is designed to enable students to collectively explore advanced filmmaking theory, history, techniques and aesthetics through the making of film/digital media projects in a series of workshops and assignments. The class is intended to follow a course of study in film techniques and aesthetics, culminating in an original filmic works produced by student groups in 16mm.

COM 414 Film Practicum (2-6-4). Prerequisites: COM 411. This advanced laboratory course thoroughly examines the filmmaking process from the script to the screen. It is designed so that each student can spend an entire semester exploring, fostering and developing ideas to create an original short film. .

COM 425 Editing and Graphics (4-0-4). Prerequisites: COM 225 This course focuses on understanding basic principles for print media graphics and developing editing skills. Students learn how to design and lay out newspapers, newsletters, magazines and Web pages using such computer software as InDesign.

COM 426 News Media Laboratory I (1-10-4). Prerequisites: COM 326, COM 425 The course introduces students to all aspects of news media production from news gathering to putting the final news product in convergence formats that bring together print and online. Learning will take place through hands on experience in news production in an environment of convergence. The students will learn the fundamentals of good journalism, adhering to the standards of fairness, accuracy and ethics in beat reporting, strong writing, photo journalism, web video reporting, blogs and social media. The objective is to provide the students skills and knowledge in all aspects of news production, including editing, design, advertising, sales and distribution. In this advanced level class the students will further develop their professional skills working with the software and hardware used in the news media industry.

COM 427 News Media Laboratory II (1-10-4). Prerequisites: COM 426 The second semester of this capstone course introduces students to leadership and management responsibilities in news media production in convergence formats that bring together print and online. In addition to further building on the fundamentals of good journalism, adhering to the standards of fairness, accuracy and ethics, the students will learn about leadership in the news industry and management of the convergence media newsroom. In this advanced level class the students will further develop their professional skills, working with the software and hardware used in the news media industry.

COM 428 Imaging Africa (4-0-4). This course is designed to enable students to explore and examine the processes, images, stereotypes, and myths associated with the historical development of film. It is taught through lectures and intensive examination of films and television programming within a seminar setting.

COM 444 Mediation and Collaborative Problem Solving (4-0-4). Prerequisite: COM 366, or COM 379, or permission of instructor. The course examines how mediation works, the factors that determine whether mediation can be used to resolve disputes, and the conditions under which mediation is most effective.

COM 447 Public Relations Writing (4-2-4). Prerequisites: COM 225, COM 226 and COM 357. This is a workshop course in advanced public relations-writing skills. It emphasizes message design and dissemination techniques that range across print and electronic media for communication with both internal and external organizational publics, including newsletters and annual reports.

COM 448 Managing Organizational Teams (4-0-4). Prerequisite: COM 341 or COM 346 or permission of instructor. This course focuses on the structure, functions, and processes of organizational teams and work groups. Special attention is given to promoting effective teamwork in today's organizations through methods of team-building and examining leadership issues confronting teams.

COM 449 Advanced Issues in Health Communication (4-0-4). Prerequisite: COM 362 or permission of instructor. This course provides in-depth examination of key theoretic and applied approaches to health communication. Topics include health communication models, doctor-patient communication, gender issues and health, health information campaigns,

mass-media influences on health, the role of culture on health and disease, the health-care organization, group influences on well-being, communication and mental health, communication and social health, and the politics of health communication.

COM 450 Media Programming and Research (4-0-4). Prerequisites: COM 226, COM 231 or permission of instructor. This course includes an analysis of the social, economic, political and cultural setting of the media, and an exploration of the determinants of programming strategies based on media research at the local and national levels.

COM 455 Communication Campaigns (4-0-4). Prerequisites: COM 226 and COM 357. The course introduces students to the fundamentals of communication campaigns, including public information and political campaigns. Course content encompasses the role of campaigns in shaping social, cultural, and political agendas; theoretical foundations of communication campaigns; and campaign management techniques. Students participate in an actual campaign exercise to gain experience as campaign strategists.

COM 470 DVD and Emerging Media: Authoring and Project Management (4-0-4). Prerequisite: COM 204. Through DVDs and other media, guest speakers, lab exercises, readings and discussions, this course explores the world of DVD and emerging media. The technologies are examined and students are introduced to authoring and project management, the most common DVD careers filled by college graduates. How visual storytelling (sequencing) fits the world of DVD and other new media is also explored.

COM 475 Communication and Training in Organizations (4-0-4) Prerequisites: COM 368 or COM 346 or permission of the instructor. Students develop and present a training program on a communication issue of their choice. This includes researching the topic, developing appropriate training materials, developing appropriate materials and strategies for assessing the programs' effectiveness, running the program, and writing a final report.]

COM 485 Science Writing for the Media (4-0-4). Prerequisites: COM 326. This course introduces students to principles and practices in science journalism. Students develop their skills in reporting about science (i.e., information gathering) and writing news stories about scientific developments. They hone their skills in effectively communicating science information through different modalities, such as newspapers, magazines, and broadcast media. The course has several parts: a) introducing students to multiple perspectives on communicating science through the mass media; b) developing news-gathering skills, such as how to interview scientists and understand scientific papers conveyed to the media; and c) writing about different aspects of science, including the biological, physical and social sciences. Students get extensive practice writing science news and feature stories.

COM 490 Internship in Communication (2 to 8 credits). Prerequisites: Junior or senior standing, permission of internship director. This course comprises of field work with community agencies concerned with promotional communication, communication in organizations, political campaigns, and the media. It may be repeated for a maximum of 8 credit hours (only 4 credit hours can count toward the major).

COM 493 Special Topics in Communication (2 to 8 credits). Prerequisite: COM 226, or permission of instructor. This course covers topics in interpersonal and organizational communication, broadcasting, film, journalism, and mass communication that change each semester and deal with a variety of important subjects and issues. It may be repeated with departmental permission.

COM 494 Special Topics in Media Arts & Technology (2 to 8 credits). Prerequisite: COM 204, or permission of instructor. This course covers topics in media arts, audio and video production, digital media, broadcasting, film and the Internet that change each semester and deal with a variety of important subjects and issues. It may be repeated with departmental permission.

COM 495 Seminar in Communication (4-0-4). Prerequisites: Senior standing, permission of instructor. In this seminar topics vary across specific areas of emphases. It may be repeated once.

COM 496 Independent Study (2 to 8 credits). Prerequisites: Junior or senior standing, approval of a department faculty member. It may be repeated for a maximum of 8 credit hours (only 4 credit hours can count toward the major).

Computer and Information Science Courses

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Faculty

Professors:, Adam M.A. Fadlalla, Chien-Hua (Mike) Lin, Victor M. Matos, Santosh K. Misra (Chair), Toshinori Munakata; **Associate Professors:** Timothy J. Arndt, Ben A. Blake, David R. McIntyre, Howard Paul, Iftikhar Sikder, Janche Sang; **Assistant Professor:** Radha Appan, Raymond Henry, Haodong Wang **Term Instructors:** Sharen Bakke, Sanchita Mal-Sarkar.

Course Descriptions

Note: see also IST courses

CIS 151 Invitation to Computing (3-0-3). Prerequisite: None. Introduces principles that form the foundation of computer science for students with no prior background in computing. Suitable for students with a non-technical background who wish to explore a career in computing or in a field where computing is used extensively. No prior programming experience is necessary or expected for this course. Key principles of computing are explored through the use of sequential, conditional, iterative logic and the issue of inheritance. Good computing practices are discussed along with problem solving and organization. . Students who have completed CIS 260 with a grade of "C" or higher are not permitted to register for this course. The course includes two lecture hours and two lab hours per week. Labs provide experience with the concepts covered in the lectures.

CIS 260 Introduction to Programming (4-0-4). Prerequisite: None. Introduction to the principles of computation, problem solving methods, and algorithm development on a computer using a current object-oriented programming language. Development of good programming style and basic skills of designing, coding, debugging, and documenting programs. Topics include foundational types, arrays, methods, user defined types, inheritance, recursion, file I/O, pointers, and introduction to data structures.

CIS 265 Data Structures and Algorithms (4-0-4). Prerequisites: CIS 260, MTH 148 or MTH 181. Programming and problem-solving skills are further developed by using language features to implement various data structures such as stacks, queues, linked lists, trees, and graphs. Topics include advanced problem solving and programming techniques, sorting, searching, and hashing algorithms. Complexity of algorithms is introduced.

CIS 306 Computers and Society(3-0-3). Prerequisite: CIS 265 or IST 203. History of computing and technology, the computer and the individual, privacy issues, legal issues, computer crime, computer security, and the future of computing.

CIS 334 Computer Organization (2-0-2). Prerequisite: CIS 265. Foundations of PC architecture and assembly language. Topics include machine language, hardware fundamentals, memory organization, data representation, addressing modes, and introduction to assemblers. This course contains the first half of the material from CIS 335. May not be used to satisfy BSCIS major-field requirements.

CIS 335 Language Processors (4-0-4). Prerequisite: CIS 265. Foundation of PC architecture and assembly language. Topics include machine language, hardware fundamentals, registers, numbering systems, data definition, and addressing modes. Fundamentals of systems programming including the implementation and use of assemblers, macro processors, linkers, loaders, and compilers. Examples of language processors are studied on various computers.

CIS 340 C/C++ for Systems Programming (2-0-2). Prerequisite: CIS 265. This course covers the basics of the C/C++ languages and selected standard library functions. Teaches students with a Java background to write C/C++ programs using standard library functions, primarily for use in later system-oriented courses.

CIS 345 Operating System Principles (4-0-4). Prerequisite: CIS 340. This course discusses the relationship between computer architecture and the operating system including interrupts, I/O handling, and memory management. Study of operating system functions, specifically, the management of computer resources such as processor scheduling; memory; I/O device scheduling; and file system structure, protection, and network connections.

CIS 368 Object Oriented Design and Programming (4-0-4). Prerequisite: CIS 265. Course provides in-depth coverage of both design and implementation of O-O programs. Students will gain understanding of the tenets of the O-O paradigm; they will design and create advanced O-O programs using a current object-oriented programming language. They will become familiar with pre-defined classes available for the language, and learn how to use them in their own software. Unified Modeling Language (UML) will be introduced as a graphical mechanism for system design. Students also will become familiar with design patterns.

CIS 408/508 Internet Programming (4-0-4). Prerequisite: CIS 430. This course introduces website design and web-based applications using several tools and techniques. The course tarts with client-side programming. The second half of the course is dedicated server-side development. Topics covered include HTML, DHTML, Cascading Style Sheets, DOM, ASP.NET, Java Script, database connectivity, web parts and web services.

CIS 424/524 Comparative Programming Languages (4-0-4). Prerequisite: CIS 265. A short history of programming languages and styles precedes the study of a comparison of modern programming languages currently in use. The major programming paradigms are surveyed, including procedural, functional, object-oriented, graphical-user-based, and logic programming.

CIS 430/530 Data Base Concepts (4-0-4). Prerequisite: CIS 265. The course introduces concepts of database management systems and database models. . Students are exposed to a detailed study of relational query languages including relational algebra, Structured Query Language (SQL), and Query-by-Example (QBE); coverage of system-wide data abstraction using ER modeling. Normalization theory and its benefits are introduced. . Stduents are expected to complete lab projects using a commercial DBMS and its supporting programming environment.

CIS 433 Systems Analysis(4-0-4). Prerequisite: CIS 430. Introduction to the tools and techniques of object-oriented analysis based on use of the Unified Modeling Language and the Rational Unified Process. System life cycle through the structured system specifications. Tools and techniques of object-oriented design.

CIS 434 Software Engineering (3-0-3). Prerequisite: CIS 433. Topics in software engineering and performance engineering, including comparison between structured and object-oriented software development, verification and testing, software design for concurrent and real-time systems, and system reengineering for increased performance.

CIS 438 Client-Server Computing (3-0-3). Prerequisites: CIS 430 . Topics include concepts and development of client-server and multi-tiered architectures and systems; back-end database connectivity for browser-based systems; middleware, application servers, scripting languages. Variety of client-server systems are discussed. Students will develop client-server applications using LAMP (Linux, Apache, MySQL, PHP) web development platform.

CIS 443/543 Graphical User Interfaces (3-0-3). Prerequisites: CIS 340, CIS 368; or CIS 459. Graphical User Interfaces for advanced bit-mapped display systems characterized by close interaction with pointing devices. Consideration of both the underlying application programming interfaces as well as the use of a framework of C++ classes. Use of an interactive environment for design and debugging. A specific industry standard system is explored in detail with extensive programming involvement.

CIS 454/554 Data Communications and Computer Networks (4-0-4). Prerequisites: CIS 345. Data communications: characteristics of physical transmission media, including international standards for data encoding and device interfacing; transmission principles, modems and multiplexors; data link protocols, mechanisms for error detection/correction, and flow control; Computer Networks: broad survey of existing networks; network topology; network layers from the ISO OSI reference model; network programming; analytical tools for network analysis and design.

CIS 457 Computer Graphics (4-0-4). Prerequisite: CIS 265. Fundamentals of two- and three-dimensional computer graphics will be covered in this course. Topics include graphics algorithms, transformational geometry, clipping, shading, rendering, and illumination. Students will be expected to develop graphics programs using standard APIs and graphics hardware.

CIS 459/559 Object Oriented Programming (3-0-3). Prerequisite: CIS 340. This course teaches the methodology of object-oriented design and programming using the C++ language. The C++ language taught includes built-in data types, pointers, classes, operator overloading, code reusability via simple and multiple inheritance, polymorphism, stream I/O, and the use of class libraries.

CIS 465 Multimedia (4-0-4). Prerequisite: CIS 368. Topics include multimedia data capture and representation including audio, image and video. Multimedia authoring paradigms and practice using a multimedia authoring tool will be discussed. Other topics include principles of user interface design, use of multimedia on the web, commercial tools for audio, image and video processing. .

CIS 467 Introduction to Artificial Intelligence (3-0-3). Prerequisite: CIS 265. Provides an elementary introduction to artificial intelligence and an overview of its various domains. Topics studied include search techniques, symbolic algebra, natural language processing, knowledge-based systems, reasoning under uncertainty, machine learning, and some non-symbolic topics such as neural networks and genetic algorithms. Common Lisp, a major symbolic AI language, will also be introduced.

CIS 480/580 Introduction to Computer Architecture (4-0-4). Prerequisite: CIS 335. The course focuses on the design of modern computer systems. Topics include processor and instruction set design; addressing; control structures and microprogramming; memory management, caches, memory hierarchy; interrupts; I/O structures and buses. Upon successful completion of this course, a student will be able to design and program embedded systems.

CIS 470 Mobile Application Development (4-0-4): Prerequisite: CIS 345**.** The course provides an in-depth review of concepts, design strategies, tools and APIs needed to create, test and deploy advanced applications for mobile phones and occasionally connected mobile devices. Topics include: design of mobile user interfaces, application life-cycle, multi-threading, inter-process communication, data persistency, content providers, background services, geo-location and mapping, networking and web services, telephony, messaging, graphics and animation, multimedia, peer-to-peer communication, performance, security. The target computing environment changes overtime; currently the course explores the Android Operating System and its supporting SDK.

CIS 485 Senior Project (4-0-4). Prerequisites: Senior standing, completion of CIS core. In this course, students will be expected to design and implement a large group project. The project will be based on knowledge and skills acquired throughout the students' tenure as a CIS or CSC major. Presentations and accompanying reports are required. Upon successful completion of this course, a student will have learned to work effectively on a large project within a group setting and will have gained experience in reporting on the project during its various stages of development. In doing so, the student will also gain understanding, through experience, of the important phases of project development: planning, analysis, design, implementation, and testing. The project will be a substantial addition to the student's portfolio.

CIS 490/590 Foundations of Computing (3-0-3). Prerequisites: MTH 182, MTH 220, and CIS 335; Mathematics majors may substitute one mathematics course numbered 280 or above for CIS 335. Sets, relations, regular languages, finite automata, context-free languages, pushdown automata, phrase-structure languages, Turing machines, Church's theory, recursion, computability, decidability, and computational complexity.

CIS 491 Professional Internship (1 to 3 credits). Prerequisite: Junior standing and permission of a CIS Department faculty adviser. Corequisite: CIS 490. Work experience in a professional environment. The work performed must extend the academic curriculum and provide a meaningful learning experience in the student's area of interest. Term paper required. This course may only be taken once.

CIS 493 Special Topics in Computer and Information Science (1 to 4 credits). Prerequisite: Varies. Special topics of current interest in computer and information science. Content varies each offering. May be repeated.

CIS 496 Independent Study (1 to 4 credits). Prerequisites: Senior standing, departmental approval. Special research projects in computer and information science. Arranged between student and adviser and subject to departmental approval prior to registration.

CIS 499 Honors Thesis in CIS (3 credits). Prerequisite: Restricted to senior CIS honors students. The Honors Thesis requires the honors student to conduct a piece of original research in computer and information science under the supervision of a CIS faculty member. The thesis will be presented orally and submitted as a written report.

Dance Courses

Faculty

Associate Professor: Lynn Deering

- College of Liberal Arts and Social Sciences
- Course Descriptions
- Theatre and Dance

Course Descriptions

DAN 100 Performance Practicum (0-2-1). Prerequisite: Concurrent enrollment in one PES or DAN dance activity course and permission of instructor. This is an introduction to the performance techniques of live dance production. Learning, rehearsing, and performing a contemporary dance work in an informal and/or formal setting.

DAN 201 Introduction to Dance (3-0-3). Survey course exploring the diverse aesthetic, multicultural, and historical aspects of Western dance, including theater, social, and ethnic forms.

DAN 211 Dance History (3-0-3) This course is the study of the history of dance and its relationship to the arts and society from the 16th century to the present.

DAN 212H The Pleasure, Power, and Art of Movement (3-0-3). This is a survey course exploring the diverse aesthetic, multi-cultural, and historical aspects of western culture's dance forms and their relationship to non-western cultures. Through readings, lectures, viewing of dance, and participation in dance styles, an understanding of dance in present society will be developed, as well as a global viewpoint of how dance fits into the contemporary world.

DAN 240 Modern Dance III (0-4-2). Prerequisite: PES 141 or permission of instructor. This course involves further study of modern dance theory and skill with emphasis on increasing physical competence and understanding of underlying theory. May be repeated for up to 9 hours.

DAN 250 Ballet III (0-2-1). Prerequisite: PES 151 or permission of instructor. This course involves further study of the theory and skills of classical ballet, with emphasis on increasing physical competence and understanding of underlying theory. May be repeated for up to 8 hours.

DAN 300 Modern Dance Repertory (0-6-3). This class covers techniques, improvisation, choreography, and production experience leading to public performance. Audition is required for entry.

DAN 301 Dance Composition I (0-4-2). This is the study and exploration of the elements of dance composition, including rhythm, time, space, gesture, and sources of composition material.

DAN 302 Dance Composition II (0-4-2). Prerequisite: DAN 301. This course explores the creative process and compositional elements of designing a choreographic work beyond the solo. Student will take the choreographic tools from previous levels of dance composition and apply them to the solo and group work.

DAN 340 Modern Dance IV (0-4-2). Prerequisite: DAN 240 or permission of instructor. This course involves advanced contemporary dance technique expanding upon previously learned modern training to develop advanced movement phrases, integrated body patterning, and sensitivity to the body as an expressive instrument.

DAN 350 Ballet IV (0-4-2). Prerequisite: DAN 250 or permission of instructor. This course covers advanced ballet technique expanding upon previously learned ballet training to develop articulate execution of complex classical ballet vocabulary and refined presentational skills.

DAN 473 Contemporary Dance Technique (0-2-1). Prerequisite: This is an intermediate/advanced level or above of previous contemporary dance training. It involves continuing study of the techniques of contemporary dance; designed for

the professional or post-graduate dancer interested in maintaining a dance training program. It consists of warm-up, floor and centerwork, and complex combinations emphasizing integrated body patterning and rhythmic clarity with a diverse qualitative sensibility.

DAN 480 Practicum in Dance (0-2-1). Prerequisite: Permission of instructor. This course is a structured, supervised field experience designed to provide an extended, practical experience in a selected dance setting; it is designed and executed by the student in consultation with a member of the faculty.

DAN 496 Independent Study (Hour as Arranged). Prerequisite: Permission of instructor. This is a faculty supervised independent study in an area of the student's interest.

DAN 499 Dance Seminar (0-2-1). This course involves intensive study in topics of importance for contemporary dancers including creative process, world dance forms, guest artist residency activities, and body work issues. It may be taken for credit more than once, but no single topic may be repeated. Topics appear in course schedule.

PES 140 Modern Dance I (0-2-1). This is an introduction to the fundamental theories and skills of modern dance. It may be repeated for up to 4 hours.

PES 141 Modern Dance II (0-4-2). This is the continued study of the fundamental theories and skills of modern dance. It may be repeated for up to 8 hours.

PES 146 Jazz Dance I (0-2-1). This is an introduction to the fundamental theories and skills of jazz dance. It may be repeated for up to 4 hours.

PES 147 Tap Dance I (0-2-1). This is an introduction to the skills, rhythms, and stylization of tap dance.

PES 148 Tap Dance II (0-2-1). This course is expanding on previous techniques of Tap Dance I with emphasis on complex phasing.

PES 150 Ballet I (0-2-1). This is an introduction to the fundamental theories and skills of classical ballet. It may be repeated for up to 4 hours.

PES 151 Ballet II (0-4-2). This is the continued study of the fundamental theories and skills of classical ballet. It may be repeated for up to 8 hours.

PES 154 African Dance (0-2-1). This course focuses on performance, understanding, and enjoyment of West African traditional dance in order to develop a fundamental awareness and appreciation of it as an art form and its social and cultural contributions to society.

PES 156 Traditional Social Dance I (0-2-1). This is an introduction to the basic steps of various social dances, including the fox trot, waltz, jitterbug, polka, and cha-cha.

PES 157 Traditional Social Dance II (0-2-1). This course is the continued study of various social dances, including the fox trot, waltz, jitterbug, polka, cha-cha, and tango.

Economics Courses

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Faculty

Link to Department Personnel
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Professor: Myong-Hun Chang (Chairperson); **Professors Emeriti:** Diran Bodenhorn, Karl B. Bonutti, John F. Burke Jr., Leonard Martin, Vijay K. Mathur, Harvey S. Rosen, **Associate Professors:** Vasilios Kosteas. Sheldon H. Stein; **Associate Professors Emeriti:** Edward B. Bell, Jon D. Harford, Douglas O. Stewart, Allan J. Taub; **Assistant Professors:** Sebastien Buttet, Yee Fei Chia, Matthew Henry, Subhra Saha

Course Descriptions

ECN 201 Principles of Macroeconomics (3-0-3). Introductory course in macroeconomic theory: national accounting, levels of output and employment, money supply, government monetary and foreign exchange, and the international monetary system.

ECN 202 Principles of Microeconomics (3-0-3). Introductory course in microeconomic theory: pricing, resource allocation, distribution, current domestic economic problems, international trade, and alternate economic systems.

ECN 221 Introduction to Mathematical Methods in Economics (3-0-3). Prerequisite: high-school algebra. Introduction to mathematical tools necessary for the effective study of economic theory and econometric models. Cannot be used for elective credit to satisfy major-field requirements.

ECN 230H Game Theory and the Social Sciences - Honors (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course is an introduction to game theory and its application to social sciences. The main focus is on developing the basic tools of game-theoretic modeling and analysis through lectures and exercises and putting these tools to work by applying them to issues that arise in many diverse areas of the social sciences. The ultimate purpose is to enable the students to understand various social phenomena as the logical outcomes of individually rational and strategically motivated choices. Students who are taking or have taken ECN 494/694/794 (Special Topics: Game Theory and Business Strategy) are not permitted to take this course.

ECN 301 Intermediate Macroeconomics (3-0-3). Prerequisites: ECN 201 and ECN 202 or equivalent. Determinants of aggregate economic variables such as GDP, unemployment, inflation, interest rate, exchange rate and trade balance.

ECN 302 Intermediate Microeconomics (3-0-3). Prerequisites: ECN 201 and ECN 202 or equivalent. Systems for allocating resources among competing wants, prices as a rationing mechanism, consumer choice, business behavior under various market situations, markets for capital and labor, general equilibrium and welfare economics.

ECN 311 Economic History of the United States (3-0-3). Economic development of agriculture, commerce, money and banking, industry, labor, and government.

ECN 316 Comparative Economic Systems (3-0-3). Prerequisites: ECN 201 and ECN 202 or equivalent. American capitalism compared with socialism, communism, and other planned economies.

ECN 322 Statistics and Econometrics (4-0-4) Prerequisite: MTH 147 or equivalent. Development of statistical theory and its application to econometric models, including simple, multiple, and nonlinear regression and correlation; derivations of some important sampling distributions and their application in economics and business.

ECN 330 Managerial Economics (4-0-4). Prerequisite: ECN 302. Applications of economic theory and methodology to decision-making problems of business and public institutions. The course deals with microeconomic concepts, such as demand, demand forecasting, production, costs, pricing practices, and capital budgeting.

ECN 333 Economics of Health Care (4-0-4). Prerequisite: ECN 202 or equivalent. Overview of health and the features of medical-care markets; economic analysis of demand for medical care including the role of uncertainty and insurance on demand; supply of medical care and the role of doctors, hospitals and insurance on supply side; organizational form of health-care markets and policy issues in financing and resource allocation; international dimensions of health-care issues.

ECN 350 Economics of Crime and Punishment (4-0-4). Prerequisite: Junior standing. Trends in criminal activity, data and data sources; economic impact on society of criminal activity; economic analysis of criminal behavior and the criminal justice system; role of deterrence including certainty and severity of punishment, and economics of victimless crimes with applications in the markets for heroin and cocaine.

ECN 355 Money and Banking (4-0-4). Prerequisites: ECN 201 and ECN 202 or equivalent. The role of money in economic activity, financial markets and instruments, depository financial institutions and money, the Federal Reserve System, monetary theory and policy, international banking and finance.

ECN 360 Public Sector Economics (4-0-4). Prerequisite: ECN 201 or ECN 202 or equivalent. Economics of the governmental or public sector in the United States; topics include the economic rationale for government, theory of public choice, public expenditure theory, analysis of selected expenditure programs, taxation theory, analysis of selected taxes and fiscal relations between governments.

ECN 391 Consumer Economics (3-0-3). Money management and consumer choice and protection; budgeting, saving, and borrowing; buying food, clothing, housing, insurance, and investments.

ECN 415 History of Economic Thought (3-0-3). Prerequisites: ECN 201 and ECN 202 or equivalent. Development of economic thought from ancient times to the present day.

ECN 433 Industrial Organization (4-0-4). Prerequisite: ECN 202 or equivalent. Investigation of how market structure and firms' conduct influence economic performance. Topics include oligopoly theory, entry barriers, merger activity, product differentiation, and innovation. Effects of government regulation (and deregulation) and antitrust policy will also be examined.

ECN 441 Business Fluctuations and Forecasting (4-0-4). Prerequisite: ECN 301 or permission of instructor. Nature and causes of business fluctuations; business cycle theories; methods of forecasting GDP, inflation, and unemployment.

ECN 450 Economics of Law (4-0-4). Prerequisite: ECN 302. The economic concepts of public and private goods, externalities, and benefits vs. cost will be used to analyze the economic basis for and effects of property, contract, tort, and criminal law. Important cases will be discussed and issues such as the rules for determining the liability for accidents and the proper level of penalties for crimes will be explored. In addition, the trade-offs involved in the use of the legal system itself will be explored in such areas as plea bargaining, trial vs. settlement of civil cases, and various arrangements for payment of legal costs.

ECN 470 Urban Economics (4-0-4). Prerequisites: ECN 201 and ECN 202 or equivalent. Theory concerning development and growth of cities; land rent and land use patterns, suburbanization, and control; discussion of urban problems and issues such as poverty and public policy, housing market, discrimination; and local government finance.

ECN 474 Environmental and Natural Resource Economics (4-0-4). Prerequisite: ECN 302, or ECN 202 and permission of instructor. Using the concepts of public goods and externalities, the causes of environmental problems will be analyzed. Regulatory approaches will be examined as to their impact and efficiency in controlling pollution and congestion. Externality and sustainability issues involving the rate of exploitation of natural resources will be explored.

Both positive and normative economic reasoning will be applied to the related issues of population size, economic-ecological interactions, and future prospects for humanity. Cross-listed with ECN 574.

ECN 475 Labor Economics (4-0-4). Prerequisite: Intermediate Microeconomics (ECN 302). Analysis of labor market issues such as labor supply and demand, wage inequality, human capital formation, unemployment, the minimum wage, labor mobility and unions. Considers policy applications including school quality choices and the effect of health and safety regulations.

ECN 482 International Economics (4-0-4). Prerequisites: ECN 201 and ECN 202 or equivalent. The determinants of comparative advantage and the pattern of international trade, the gains from trade, and the effects of trade restrictions, trade growth and development, the balance of payments, the economics of exchange rates, and macroeconomics in an open economy.

ECN 485 Economics of Development and Growth (4-0-4). Prerequisites: ECN 201 (Principles of Macroeconomics) and ECN 202 (Principles of Microeconomics). A theoretical approach to development problems of the less developed nations; comparison of growth theories, inequality and economic development; population and growth; the impact of development on rural and urban sectors; market failures and government policies; international assistance.

ECN 494 Special Topics in Economics (1-4 credits). Prerequisite: Permission of instructor. Course title and content may change from term to term.

ECN 496 Independent Study in Economics (1-2 credits). Prerequisite: Permission of instructor. Independent research project under faculty supervision. The course may be repeated for credit for a total of 4 credit hours.

ECN 497 Honors Essay (3-0-3). Prerequisite: Admission to the honors program. Required of all honors students in economics. Directed research supervised by the Honors Essay Committee.

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Curriculum and Foundations Courses

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Faculty

Professors: Joshua Bagakas, William Beasley, Graham Stead, Rosemary Sutton, Lih-Ching Chen Wang; Professor Emerita: Elyse S. Fleming; Professors Emeriti: David Adams, Frank Johns, Robert MacNaughton, Carol A. Takacs, Sam P. Wiggins; Associate Professors: Marius Boboc, Jim Carl (Chairperson), Anne Galletta, Jeremy Genovese, Brian Harper, Selma Vonderwell, Brian Yusko; Clinical Associate Professors: Diane Corrigan, Susan Rakow; Associate Professors Emeritae: Sanza Clark; Associate Professors Emeriti: Floyd M. Adams, Gordon E. Samson; Assistant Professors: Karla Hamlen, Xiongyi Liu.

Course Descriptions

EDB 101 Developmental Reading (4-0-4). This course covers development of reading comprehension, vocabulary, and study strategies that enhance comprehension of narrative and expository text. It places emphasis on critical and analytical reading, and instruction in synthesizing and analyzing text from various academic disciplines. The course is designed to prepare students for the demands of college reading and college studying. Letter grading system is used. Graduation hour.

EDB 200 Teaching as a Profession (2-0-2). Students will examine teaching as a profession - the roles and responsibilities they will encounter in the classroom, the school, and the community. Students will develop a teaching philosophy, examining why they want to be teachers, what will be expected of them in that role, and what being a professional teacher means. It is offered every semester.

EDB 250 Politics of Black Education (4-0-4). Using a historical perspective, this course examines the nature, functions, and consequences of schooling for African-Americans in both the North and South since the Civil War. Special attention is given to the interface of schools as social and political institutions with both the larger society and African-American communities.

EDB 300 Educational Technology (2-0-2). This course provides an introduction to instructional technology useful to teachers. Students use and evaluate media technology, focusing on ways to effectively integrate technology and other media resources into the instructional program. It is offered every semester.

EDB 301 Social Foundations of Education (3-0-3). This is an examination of the school in its cultural context. Emphasis is placed on the historical, social, and economic forces that shape current educational discourse. Special emphasis is also placed on the role of diversity in educational decision-making. It is offered every semester.

EDB 302 Psychological Foundations of Education (3-0-3). Prerequisites: PSY 220 and/or PSY 221; This is an analysis of the nature of human learning and development and their relationship to the process of education and to instruction. Emphasis is on current theories and research relating to the contextual nature of human learning to instructional practice. It is offered every semester.

EDB 303 History and Philosophy of Middle School: Teaching and Management in Context (3-2-4). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302. This course addresses middle school historical and philosophical foundations in the context of teaching and classroom management. Students examine the historical dimensions of the structure and curriculum of middle schools. Philosophical issues such as tracking, interdisciplinary curriculum, and experiential learning are discussed. This course combines educational theory with actual classroom practice. Students identify and plan appropriate instructional strategies for diverse learners in middle-school contexts and identify appropriate classroom management skills and techniques for adolescents. Students examine a variety of programs and strategies such as adviser-advisee, interdisciplinary team teaching, and integrated curriculum planning. A field experience provides students with an opportunity to practice and reflect upon their own teaching.

EDB 305 Teaching and Management in the Secondary School (3-2-4). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302. The primary purpose of this course is to combine educational theory with actual classroom practice. Students identify and plan appropriate instructional strategies for diverse learners in secondary school contexts and identify appropriate classroom management skills and techniques for secondary students. Students examine a variety of classroom management techniques and develop a disciplinary unit of instruction to implement. A field experience provides students with an opportunity to practice and reflect upon their own teaching.

EDB 400 Classroom Assessment (2-0-2). Prerequisite: EDB 303 or EDB 305. This course should be taken during practicum (preferable) or student teaching in the middle school Adolescent/Young Adult, Visual Arts, Music, or Foreign Language programs. Students examine their roles as teachers, colleagues, reflective practitioners, and advocates, as they develop and communicate the results of classroom assessments to students, their parents, colleagues, and other community members. They develop techniques for assessment of student learning that can be used to improve teaching and achievement and effective communication with students, parents, teachers, administrators, community members, and other professional educators. Students explore methods for collaborating with other professionals to address the inequities related to differences of special need, race, class, and gender.

EDB 411 Seminar on Improving Instruction (1-0-1 to 4-0-4). Prerequisite: Completion of course(s) in teaching methods in the content area or written permission of instructor. This is an opportunity to explore in-depth a topic of special nature with a group having similar interests. The topic explored may be under consideration as a new course and will be included in the seminar title. The course may be repeated in different topics. No more than eight EDB 411 hours may be included in a degree program.

EDB 451 Individual Projects in Education (1-0-1 to 4-0-4). Prerequisite: Permission of chairperson. This is an independent project in a selected area of education. The project must be approved by department chairperson and adviser.

EDB 455 Women and Education (4-0-4). This course involves examination of gender bias beliefs, attitudes and values in schools and society and their effects on the aspirations and autonomy of women; multidisciplinary examination of effects of socialization process on women; consideration of possible school-based remedies to sexism.

EDB 495 Seminar on Classroom Inquiry (3-0-3). This course introduces pre-service educators to the process of classroom inquiry and reflection through a collaborative action research project. Specifically, the focus is to develop methods consistent with critically reflective practices that support effective teaching and enhance student learning. By employing a systematic process of classroom inquiry, participants will learn how to develop classroom-based research by searching for relevant literature; design appropriate data collection methods, analyze, interpret and reflect upon the results; and provide a discussion of the findings related to the classroom and teacher practice. In addition, participants also share the findings with colleagues and prepare a paper of sufficient quality for submission to a journal of teacher practice. This course serves as the capstone course for the upper division honors program for teacher license candidates.

Specialized Study and Field Experience Courses

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Course Descriptions

Without exception, appropriate authorization for enrollment in any course with an EST prefix must be obtained prior to registration. Moreover, failure to adhere to the following policies and deadlines may result in the delay of graduation by one or more semesters.

Student Teaching and Practicum Requirements: Students must complete an online application for practicum or student teaching prior to registering for these experiences. Application deadlines are February 15 for fall field experiences and September 15 for spring field experiences. Please note that these deadlines are strictly enforced and that placements will only be given to students who have achieved an overall 2.50 cumulative grade-point average and a minimum grade-point average of 2.75 in the professional education sequence, with no grades below a C. Candidates for secondary and multi-age practicum and student teaching placements must also have at least a 2.50 grade-point average in their major field. In addition, each EST practicum and student teaching course has specific course prerequisites and/or corequisites. Not all of these courses are listed below. Individuals should refer to their program checklist or check in the College Advising Office, RT 1401, for specifics.

NOTE: Under consideration at the present time, but not yet approved, are the following two proposals relating to Student Teaching and Practicum requirements: (1) All practicum experiences will require five half-days per week for one semester in an appropriate school placement; (2) Student teaching assignments will begin on the date when the individual's assigned school begins in August/September or January and will continue for 15 weeks.

EST 370 Practicum in Early Childhood Education (0-6-3). Prerequisites: requires prior on-line application and approval of the Office of Field Services and successful completion of Portfolio Checkpoint #2, all foundations and curriculum & methods courses, EDL 300, EDL 301, ESE 415, 5-6 remaining literacy or special methods courses, 2.50 GPA. It requires five half-days per week for one semester, observing and teaching under the direction of a mentor teacher and a university supervisor; includes seminar. Practicum or Student Teaching (EST 480) must be in an urban classroom. Both may be urban. If Practicum is in a pre-kindergarten classroom, then Student Teaching must be in a kindergarten-grade 3 classroom. If Practicum is in a k-3 classroom, then Student Teaching must be in a pre-k classroom. Practicum and/or Student Teaching may be in an inclusive classroom. It is required for early childhood teaching license.

EST 371 Practicum in Middle Childhood Education (0-6-3). Prior on-line application to the Office of Field Services is required. Prerequisites include: all foundations and curriculum & methods courses; EDL 301; 50% of courses in each concentration; 2.50 cumulative GPA; 2.50 concentration GPA; 2.75 professional GPA. It must be taken concurrently with two methods courses as specified by program. The course is a structured field experience designed to accompany specific methods courses and to prepare Middle-Childhood-Education majors for student teaching; stresses practical application of methods and theory with emphasis on the various roles of a teacher. Students begin formulating a personal philosophy for teaching while working four half-days per week in an upper elementary, middle-, or junior-high school classroom under the direction of a mentor teacher and a university supervisor; includes seminar. It is required for middle childhood teaching license.

EST 372 Practicum in Bilingual Education (0-6-3). Prerequisites: Prior application and approval of the Office of Field Services plus successful completion of all courses in the specialization sequence for bilingual education. This is a university-supervised field experience designed to provide guided practice in the application of current theory and research in both ESL and bilingual education, It involves 80-120 hours over a prescribed number of weeks, observing and teaching bilingual students under the direction of a cooperating teacher and a supervisor from CSU. It is required for bilingual education endorsement.

EST 373 Practicum in Teaching English as a Second Language (0-6-3). Prior on-line application to the Office of Field Services is required. This is a university-supervised field experience designed to provide guided practice in the application of current theory and research in ESL/EFL instruction. Students spend 80-120 hours in a classroom that serves ESL students under the direction of a mentor teacher; includes seminar. It is required for TESOL endorsement.

EST 374 Practicum in Foreign Language Education (0-6-3). Prior online application to the Office of Field Services is required. Prerequisites include: all Foundations courses; EDB 305, EDL 305; 50% major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with EDC 312 and EDC 313. This is a structured field experience designed to prepare modern-language majors for student teaching, It stresses the practical application of theory and research to the planning, delivery, and evaluation of instruction. Students explore the various roles of a teacher and begin formulating a personal philosophy for teaching while working four half-days per week in a school under the direction of a mentor teacher and a university supervisor; includes seminar. Placement must be different than that received for EST 484 so that students gain both pre-k-8 and 9-12 classroom experience. It is required for multi-age foreign language teaching license.

EST 377 Practicum in Special Education: Mild/Moderate Intervention Specialists (1-6-4) Prior online application to the Office of Field Services is required. Prerequisites include: all foundations courses and three curriculum and methods courses; 2.50 cumulative GPA; 2.75 professional GPA. This is a university-supervised field placement that provides extended, firsthand experience in working with students who need specially designed instructional programs. It requires four half-days per week for one semester in a state-approved special education program serving students with mild/moderate disabilities, working under the direction of a mentor teacher; it includes seminar. It is required for licensure as a Mild/Moderate Intervention Specialist.

EST 378 Practicum in Special Education: Moderate/Intensive Intervention Specialists (1-6-4). Prior online application to the Office of Field Services is required. Prerequisites include: all foundations courses and three curriculum and methods courses; 2.50 cumulative GPA; 2.75 professional GPA. This is a university-supervised field experience designed to provide extended, guided practice in working with students with intellectual disabilities, multiple disabilities, and emotional disturbances. It requires four half-days per week in a state-approved special education program that serves students with moderate/intensive educational needs working under the direction of a mentor teacher; it includes seminar. It is required for licensure as a Moderate/Intensive Intervention Specialist.

EST 379, 380, 381 or 382 Practicum in Secondary Education English, Math, Social Studies, or Science (0-6-3). Prior online application to the Office of Field Services is required. Prerequisites include: all Foundations courses; EDB 305, EDL 305; 50% major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with either EDS 313, EDS 315, EDS 316, or EDS 317. This is a structured field experience designed to accompany secondary methods courses in English, science, mathematics, or social studies education. It prepares Secondary Education Minors for student teaching andstresses the practical application of theory and research to the planning, delivery, and evaluation of instruction. Students explore the various roles of a teacher and begin formulating a personal philosophy for teaching while working four half-days per week in a middle-, junior-high, or senior-high school classroom under the direction of a mentor teacher and a university supervisor; it includes seminar. It is required for secondary teaching license.

EST 480 Student Teaching in Early Childhood Education (0-20-10). Prerequisites: requires prior online application and approval of the Office of Field Services and successful completion of Portfolio Checkpoint #3, course prerequisites listed on application including EST 370; 2.75 professional GPA. It requires five full days per week for one semester, observing and teaching under the direction of a mentor teacher and a university supervisor; it includes seminar. Practicum (EST 370) or student teaching must be in an urban classroom. Both may be urban. If Practicum is in a pre-kindergarten classroom, then Student Teaching must be in a kindergarten-grade 3 classroom. If Practicum is in a k-3 classroom, then Student Teaching must be in a pre-k classroom. Practicum and/or Student Teaching may be in an inclusive classroom. It is required for early childhood teaching license.

EST 481 Student Teaching in Middle Childhood Education (0-20-10). Prior online application to the Office of Field Services is required. Prerequisites include: EST 371; 2.50 cumulative GPA; 2.50 concentration GPA; 2.75 professional GPA. Must be taken concurrently with EDB 400. This course involves placement five full days a week for one semester in an upper-elementary, middle-, or junior-high school classroom observing and teaching under the direction of a mentor teacher and a university supervisor. It is required for middle childhood teaching license.

EST 484 Student Teaching in Foreign Language Education (0-20-10). Prior online application to the Office of Field Services is required.Prerequisites include: EST 374; 75% major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with EDB 400. This involves five full days a week for one semester observing and teaching under the direction of a mentor teacher and a university supervisor. Placement must be different than that received for EST 374 so that students gain both pre-k-8 and 9-12 classroom experience. It is required for multi-age teaching license in foreign language education.

EST 485 Multiage Student Teaching for Music Majors (0-20-10). Prior online application to the Office of Field Services is required. Prerequisites include: all professional education courses; 75% major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with EDB 400. This is a university-supervised student-teaching experience in two separate educational settings to provide both pre-k-8 and 9-12 classroom experience. It involves observation and teaching music under a mentor teacher's direction, five full days per week for one semester. It is required for multi-age teaching licensure in music.

EST 486 Multiage Student Teaching for Art Majors (0-20-10). Prior online application to the Office of Field Services is required. Prerequisites include all foundations and curriculum & methods courses; 75% of major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with EDB 400. This is a university-supervised student-teaching experience in two separate educational settings to provide both pre-k-8 and 9-12 classroom experience. It involves observation and teaching music under a mentor teacher's direction, five full days per week for one semester. It is required for multi-age teaching licensure in art.

EST 487 Student Teaching for Mild/Moderate Intervention Specialists (1-22-12). Prior online application to the Office of Field Services is required. Prerequisites include: EST 377; all professional coursework; 2.50 cumulative GPA; 2.75 professional GPA. This is a university-supervised student-teaching experience in a state-approved special education program serving students with mild/moderate disabilities, five days a week for one semester observing and teaching under the guidance of a mentor teacher. Successful completion requires demonstration of competencies necessary for licensure as a Mild/Moderate Intervention Specialist.

EST 488 Student Teaching for Moderate/Intensive Intervention Specialists (1-22-12). Prior online application to the Office of Field Services is required. Prerequisites include: EST 378; all professional coursework; 2.50 cumulative GPA; 2.75 professional GPA. This is a university-supervised student-teaching experience in two separate state-approved special education programs: one for students with cognitive or multiple disabilities, and one for students with emotional disturbance. It involves five days a week for one semester observing and teaching under a mentor teacher's direction. Successful completion requires demonstration of competencies necessary for licensure as a Moderate/Intensive Intervention Specialist.

EST 489, EST 490, EST 491, EST 492 Student Teaching in Secondary Education English, Math, Social Studies, or Science (0-20-10). Prior online application to the Office of Field Services is required. Prerequisites include: either EST 379, EST 380, EST 381 or EST 382; 75% major-field courses; 2.50 cumulative GPA; 2.50 major-field GPA; 2.75 professional GPA. Must be taken concurrently with EDB 400. This course involves five full days a week for one semester in a secondary school classroom observing and teaching under the direction of a mentor teacher and a university supervisor. It is required for secondary teaching license.

EST 493 Special Topics in Curriculum and Instruction (1-0-1 to 4-0-4). Prerequisite: May require permission of instructor. This is an opportunity to explore in depth, with a group having similar interest, a topic of a special nature; individual and group work in the classroom, library, or community under the direct supervision of at least one faculty member and other resource persons as necessary. In many instances, the topic explored may be under consideration as a new course or program to assure student participation in this process and will be included in the seminar title. It may be repeated for a maximum of nine hours.

EST 496 Independent Study in Education (1-0-1 to 4-0-4). Prerequisites: Permission of instructor and department chairperson. This is an independent project in a selected area of education. It involves approval by and arrangements made with permission of the supervising instructor and the department chairperson. Independent study hours may not exceed six hours in a degree program.

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Faculty

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Professors: Clifford T. Bennett (Chairperson), James A. McLoughlin, Roland G. Pourdavood, Dinah Volk, Jane A. Zaharias (Associate Dean); **Professors Emeritae:** Mary A. Boehnlein, Thomas W. Frew, Nancy K. Klein; **Associate Professors:** Ronald J. Abate, Maria Angelova, Robert Ferguson, Joanne Goodell, Mary K. Gove, Grace Hui-Chen Huang, Trisha Wies Long, Anthony Menendez, James Moore, Terri Purcell, Theresa A. Quigney, Judy I. Stahlman, Patrick Wachira, Karl Wheatley; **Associate Professor Emerita:** Lillian R. Hinds; **Assistant Professors:** Tachelle Banks, Debbie Jackson, Hoe Kyeung Kim, Catherine Ross-Stroud, Kristine Still, Amanda Yurick; **Clinical Assistant Professor:** Anne Price

Course Areas

- Early Childhood Education
- Literacy Development and Instruction
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Early Childhood Education Courses

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Faculty

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Course Descriptions

ECE 300 Introduction to Early Childhood Education (3-0-3) Prerequisites: PSY 220; Prerequisite or Co-requisite: EDB 200, EDB 301, EDB 302 (students must be officially admitted into EC program). This is a survey of major models and programs that educate young children and examination of the theories that provide the foundation for such programs. Attention is paid to the history of early childhood education and to current issues in the classroom and beyond.

ECE 401 Developmental Curriculum for Early Childhood Education (4-0-4). Prerequisites: EDB 200, EDB 301, EDB 302, and ECE 300. This is the study of curriculum development for educational settings that serve children from age 3 to age 8, including typically developing children, and children with mild and moderate disabilities. Attention is given to developmental considerations and national and state subject matter standards. It also covers different curriculum theories and models as well as their implementation.

ECE 402 Teaching Methods in Early Childhood Education (4-0-4). Prerequisites: EDB 200, EDB 301, EDB 302, ECE 300, and ECE 401. Study of teaching methods for educational settings that serve children from age 3 to age 8. Attention is given to strategies for planning; organizing the learning environment; facilitating teacher-child interactions; guiding children's behavior; conducting lessons; assessing; care giving; supporting play; and addressing standards through integrated and emergent curriculum. Field placement in an early childhood classroom for 2 hours per week the last 10 weeks of the semester is required.

ECE 403 Teaching Young Children with Mild and Moderate Disabilities (3-0-3). Prerequisites: EDB 200, EDB 301, EDB 302, and ECE 300. This is an introduction to educational issues related to working in regular early childhood settings with young children who have mild and moderate disabilities. Attention is given to characteristics, etiology, classification, and legal and interdisciplinary issues, as well as to curricular and pedagogical approaches for the inclusive classroom.

ECE 412 Collaboration with Families and Professionals in Early Childhood Settings (4-0-4). Prerequisites: EDB 200, EDB 301, EDB 302, ECE 300, and EDC 300. This course explores the relationships between early childhood professionals and families, as well as with other professionals. Strategies for communicating and collaborating with others and for fostering home-school connections are examined. History, philosophy, and issues related to collaboration and family involvement, including diversity, are discussed.

ECE 415 Mathematics Instruction in Preschool and the Primary Grades (3-0-3). Prerequisites: MTH 127, MTH 128, MTH 129, EDB 301, EDB 302 and either ECE 300 or ESE 400. This course is designed to provide students with the opportunity to consider and evaluate the philosophy, principles, practices, and problems in preschool and primary grades with special focus on mathematics instruction. The students engage in mathematics activities as a basis for reflecting on learning and teaching mathematics that is culturally responsive. The students examine various facets which lead to making decisions with regard to a learning environment best adapted to the abilities and needs of the students as

mathematics learners. Other areas of focus are integration of history, culture, and the appropriate use of technology in the teaching and learning of mathematics.

ECE 416 Social Studies Instruction in Preschool and the Primary Grades (3-0-3). Prerequisites: EDB 200, EDB 301, EDB 302, and EDC 300; also ECE 300 if seeking Early Childhood license. This course covers the objectives, principles, trends, materials and current practices for teaching social studies and fostering social development in early childhood education. This course focuses on developmentally appropriate content and strategies for introducing young children to the study of history, geography, economics, and other social sciences.

ECE 417 Science Instruction in Preschool and the Primary Grades (3-0-3). Prerequisites: EDB 200 , EDB 301, EDB 302 and either ECE 300 or ESE 400. This course examines the nature, scope, and role of science experiences in the learning and development of young children with emphasis given to a constructivist, inquiry-oriented approach consistent with national standards. Various activities, investigations, and discussions are drawn from physical, biological, and earth science.

Literacy Development and Instruction Courses

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Course Descriptions

EDL 300 Phonics Assessment and Instruction (3-0-3). Prerequisites: EDB 200, EDC 300. Prerequisite or Corequisite: EDB 200, EDB 300, EDB 301 and EDB 302. This course focuses on the nature and role of word recognition in proficient reading and spelling. It provides the background necessary for teaching and assessing phonics, phonemic awareness, and word recognition.

EDL 301 Beginning and Intermediate Reading Instruction and Assessment (3-0-3). Prerequisites: EDB 200, EDC 300. Prerequisite or Corequisite: EDB 200, EDB 300, EDB 301 and EDB 302. This course involves the survey of methods and materials used to teach reading in elementary and middle school settings. It includes overview of the reading process, introduction to diagnostic measures for assessing reading development, techniques for remediating reading difficulties, and critical examination of related theory and research.

EDL 305 Content Area Literacy (3-0-3). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302, (except Music Education students). This is a critique and analysis of current theory, research, and practice as it relates to content-area reading instruction. Particular attention is given to the development of comprehension, metacognitive awareness, and effective study strategies. Also stressed are internal and external textbook-thinking skills, the integrated use of reading and writing, and materials and methods to promote lifelong learning. Other topics considered include media literacy, inquiry learning, authentic assessment, action research, and diversity issues. It is required for reading endorsement.

EDL 311 Emergent Literacy (3-0-3). Prerequisites: ECE 300 (Early Childhood students only), and EDL 301. The course examines theory, research, and practice as it pertains to the processes by which young children learn to read and write in day care, preschool, and primary classrooms. It also includes consideration of language, literacy, and concept development, with emphasis on factors that influence children's growth in these areas. It addresses the relationships between thought and language, as well as integrative methods for language-arts instruction and assessment that build on these relationships and contribute to the acquisition of literacy during early childhood.

EDL 312 Literature-Based Reading Methods for Children (3-0-3). Prerequisites: EDB 200, EDB 302. The course focuses on techniques for using classic, contemporary, and multiethnic children's literature of all genres to support reading acquisition and instruction in preschool and the primary grades, with particular attention given to teaching methods using literature. Other topics for discussion include the evaluation and selection of appropriate trade and picture books for classroom use, the application of children's literature to content area instruction, and the role of children's literature in family literacy and recreational reading programs.

EDL 313 Literature-Based Reading Methods for Adolescents (3-0-3). Prerequisites: EDB 200, EDB 302. This course focuses on techniques for using classic, contemporary, and multiethnic literature of all genres to support reading instruction in grades 4 through 12. It emphasizes the developmental nature of reading preferences and comprehension, the application of reader-response theory to the selection and design of teaching strategies and materials, the potential use of literature across the curriculum, and criteria for selecting and evaluating trade books for young adults.

EDL 402 Foundations of Literacy: Theory and Practice (3-0-3). Prerequisite: Permission of instructor. The course explores the linguistic, psychological, social, cultural, philosophical and historical bases of literacy acquisition and its development. Particular emphasis is given to current research and classroom practice. It is required for reading endorsement.

EDL 403 Assessment and Evaluation of Diverse Literacy Learners (4-0-4). Prerequisites: EDL 402 and permission of instructor. This course involves the assessment and evaluation of literacy development, with a focus on reading, writing,

and complementary language-arts processes for students of all ages. It includes consideration of linguistic, affective, cognitive, and physical factors that may influence encoding, decoding, comprehension, and composition and their evaluation. The construction, administration, interpretation, and critique of formal and informal assessment procedures are addressed. Course includes supervised, weekly, practical experience with an assigned client resulting in development of a case study. It is required for reading endorsement.

EDL 404 Literacy Development: Meeting the Needs of Diverse Learners (4-0-4) Prerequisites: EDL 403 and permission of instructor. This is supervised practice in teaching reading and writing with emphasis given to the preparation, analysis, and evaluation of individualized instructional programs based on case study evaluations. It includes approaches for developing positive attitudes toward literacy and strategies aimed at overcoming difficulties in reading and writing development. Course requires preparation of a progress report based on weekly practical experience with an assigned client. It is required for reading endorsement.

EDL 406 Second Language Learning and Pedagogy (3-0-3). The first of a two-course sequence in ESL/EFL pedagogy, this course covers theories of second-language acquisition, competing methods for teaching English to speakers of other languages, psycholinguistics, sociolinguistics, and issues involving language learning in multicultural settings. It is required for TESOL endorsement.

EDL 407 TESOL Methods (3-0-3). The second of a two-course sequence in ESL/EFL pedagogy, this course provides critical exploration and analysis of current approaches for teaching English to speakers of other languages with particular emphasis given to the development of communicative competence. It also includes consideration of the role of assessment in instructional design, student placement, and advancement, as well as related legal issues. It is required for TESOL endorsement.

EDL 408 Applied Linguistics for Teachers (3-0-3). Designed for practicing and prospective teachers, this course provides an introduction to linguistic theory as it relates to the language development of native and non-native speakers of English. Emphasis is given on the practical application of linguistic knowledge in phonetics, phonology, syntax, morphology, and semantics to classroom practice. It is required for TESOL endorsement.

EDL 409 Assessment and Evaluation in the ESL/Bilingual Classroom (3-0-3). This course explores the notion of second-language proficiency and helps students develop an understanding of how they can assess or evaluate LEP (limited English proficiency) students' progress in the development of proficiency. It addresses topics of formal and informal methods of assessing language proficiency, test preparation, and interpretation of test results. Students have a chance to practice creating authentic assessment tasks. It is required for TESOL endorsement.

EDL 410 Pedagogical Grammar (3-0-3). This course provides foundational knowledge of the history and structure of the English language and explores a variety of approaches to teaching grammar in the ESL/EFL classroom. It reviews the historical development of English and explains many of the irregular aspects of the language. The major focus of the course is on the grammatical structures of English and their functions in communication. It is an experiential, discussion-based course appropriate for all students interested in improving their knowledge about teaching English grammar. It is required for TESOL endorsement.

EDL 415 Foundations and Issues in Bilingual Education (3-0-3). The course is taught in Spanish; writing assignments are submitted in Spanish. It equips bilingual teachers with the knowledge and philosophy to work with language minority students in the context of bilingual programs. Emphasis is given to the historical, political and legal foundations of bilingual education programs in the U.S. as well as different models of bilingual programs and the psycholinguistic and sociolinguistic principles upon which each is based. Also considered are the pedagogical, socio-cultural and linguistic issues of bilingual education controversies. Participants are expected to develop a professional philosophy of bilingual teaching.

EDL 416 Methods and Teaching Content Areas in Bilingual Setting (3-0-3). The course is taught in Spanish; writing assignments are to be submitted in Spanish. It equips bilingual teachers with knowledge and skills to organize and implement instruction for bilingual learners whose first language is not English. Emphasis is given to the mastery of instructional strategies and design of lessons that are compatible with Ohio Department of Education Standards. Participants explore current legal, socio-cultural and educational contexts for teaching English Language Learners in K-12 schools. The students examine the psycholinguistic and sociolinguistic principles of methods of second language teaching; and acquire multiple strategies for teaching subject matter content in the bilingual classroom.

Middle Childhood Education Courses

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Course Descriptions

EDM 313 Teaching and Assessing Language Arts in the Middle School (4-0-4). Prerequisites: This is the critical exploration and analysis of student-centered methods that encourage integrated study of the language arts. Areas of study include pragmatic and theoretical aspects of reading, writing, listening, viewing, and oral language development during early adolescence - especially as they apply to the selection of objectives, strategies, and materials for instruction and the evaluation of pupil progress.

EDM 315 Teaching and Assessing Mathematics in the Middle School (4-0-4). Prerequisites: The course provides opportunities for the prospective mathematics teacher to gain experience in preparing, teaching and assessing problem-centered standards-based lessons. It focuses on materials and strategies for teaching and assessing mathematics at the middle-childhood level. Also considered are student characteristics, teaching and learning styles, issues of equity and diversity, constructivist theories of learning and the history of mathematics. Extensive use of technology is integrated throughout.

EDM 316 Teaching and Assessing Social Studies in the Middle School (4-0-4). Prerequisites: Eligibility for EST 371 Practicum, which must be taken concurrently. The course explores concepts, purposes, and underlying assumptions of teaching the social sciences; develops activities to improve children's understanding of democratic citizenship in a pluralistic society; addresses interdisciplinary curriculum linkages.

EDM 317 Teaching and Assessing Science in the Middle School (4-0-4). Prerequisites: This is an introduction to science instruction and assessment in upper elementary, middle, and junior high school settings. It provides background and principles of science education, including instructional planning, methods and materials, integration of technology, nature of current research in science education and its role in guiding science instruction and assessment, best practices in science education and a philosophy for teaching science.

Multi-Age Instruction Courses

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Course Descriptions

EDC 300 Diversity in Educational Settings (3-0-3). This course focuses on issues, such as culture, religion, ethnicity, race, sex/gender, sexual orientation, language, age, social class, and political ideology, related to the education of culturally diverse students. Course work involves the development of specific knowledge and skills for promoting positive relationships among teachers, students, and parents in order to maximize student achievement. The course also provides evidence-based strategies for improving the performance of traditionally disadvantaged populations.

EDC 309 Art Methods for the Classroom Teacher (2-0-2). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302, and ART 252 or 253. This course offers techniques for teaching expressive and responsive dimensions of the visual arts to young children and individuals with special needs.

EDC 310 Elementary Methods for the Art Specialist (3-2-4). Prerequisites: EDB 200, EDB 300, EDB 301, and EDB 302. Prerequisite or Corequisite: EDB 305 (open only to Art Education majors). The course provides a series of learning experiences that develop knowledge and skills relative to planning, implementing, and evaluating art programs for children in the elementary grades.

EDC 311 Secondary Methods for the Art Specialist (3-2-4). Prerequisites: EDC 310, EDB 200, EDB 300, EDB 301, and EDB 302. Prerequisite or Corequisite: EDB 305 (open only to Art Education majors). This course involves class sessions, studio laboratory work, and school-site experiences that develop the necessary knowledge and competencies for planning, implementing, and evaluating art programs in the secondary school.

EDC 312 Foreign Language Education in the Elementary Schools (2-0-2). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302, EDB 305, EDL 305, and oral and written competency in the target language; must be taken concurrently with EDC 313 and EST 374. This course involves consideration and evaluation of the philosophy, practices, and problems of teaching modern foreign languages and cultures at the elementary level. Emphasis is placed on integration of Standards and assessment with lesson planning, implementation, and evaluation; age-appropriate materials and practices; and advocacy.

EDC 313 Foreign Language Education in the Secondary Schools (2-0-2). Prerequisites: EDB 200, EDB 301, EDB 302, EDB 305, EDL 305, and oral and written competency in the target language; must be taken concurrently with EDC 312 and EST 374. This course covers techniques and materials for teaching modern foreign languages and cultures at the secondary level. It emphasizes the integration of Standards and assessment with lesson planning, implementation, and evaluation; and authentic tasks and authentic materials.

EDC 418 Physical Science for the Classroom Teacher (2-2-3). This course includes consideration of topics within physics, chemistry, and earth/space science. Emphasis will be given on enhancement of the science content, knowledge of the future, and practicing elementary- and middle-school teachers. The course combines lecture and discussion with hands-on activities thereby modeling appropriate instructional practices.

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Course Descriptions

EDS 313 Secondary Language Arts Instruction and Assessment (4-0-4). Prerequisites: EDB 305 and EDL 305. Concurrent enrollment in EST 379. This is a critical exploration and analysis of current developments in the teaching of secondary English with emphasis on student-centered methods that encourage integrated study of the language arts. Pragmatic and theoretical aspects of language, literature, and composition instruction are considered - especially as they apply to the selection of objectives, strategies, and materials for instruction and evaluation. Areas of study include reading and writing development, the writing process, the processes involved in reading literary works, oral language and listening skill development, as well as formative and summative techniques for assessing pupil progress.

EDS 315 Secondary Mathematics Instruction and Assessment (4-0-4). Prerequisites: EDB 305 and EDL 305. Concurrent enrollment in EST 380. This course provides opportunities for the prospective mathematics teacher to gain experience in preparing, teaching and assessing problem-centered, standards-based lessons. It focuses on materials and strategies for teaching and assessing mathematics at the intermediate and secondary level. Also considered are student characteristics, teaching and learning styles, issues of equity and diversity, constructivist theories of learning and the history of mathematics. Extensive use of technology is integrated throughout.

EDS 316 Secondary Social Studies Instruction and Assessment (4-0-4). Prerequisites: EDB 305 and EDL 305. Concurrent enrollment in EST 381. This course explores concepts, purposes, and underlying assumptions of teaching and assessing social sciences; develops activities to improve intermediate and secondary student's interest and competence in democratic citizenship in a pluralistic society; addresses interdisciplinary curriculum linkages.

EDS 317 Secondary Science Instruction and Assessment (4-0-4). Prerequisites: EDB 305 and EDL 305. Concurrent enrollment in EST 382. This is an introduction to science instruction and assessment in today's intermediate and secondary schools. It provides background and principles of science education, including instructional planning, methods and materials, integration of technology, nature of current research in science education and its role in guiding science instruction and assessment, best practices in science education and a philosophy for teaching science.

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Course Descriptions

ESE 400 Introduction to Special Education (3-2-4). Prerequisites or Corequisites: EDB 200, EDB 301 and EDB 302. This is an introduction to the profession of special education with information regarding the characteristics of persons with the various disabilities included in IDEA. Students learn historical and legal issues regarding special education; to identify, plan, and implement a variety of instructional strategies; and information on the concepts of Praxis II and of the profession. It includes 50 hours observation and field experience.

ESE 402 Introduction to Individuals with Mild/Moderate Educational Needs (3-2-4). Prerequisites: EDB 200, EDB 301, EDB 302, and ESE 400. This course focuses on issues related to high incidence disabilities: mild intellectual disabilities, learning disabilities, ADHD, and behavioral disorders. A consideration of the cognitive, perceptual, language, academic, and social/emotional characteristics and needs of these students is examined. Emphasis is on understanding concerns related to identification, assessment, and instructional planning. Legal and ethical implications associated with service delivery are also explored. Class assignments and activities include (a) visiting a culturally and ethnically diverse classrooms for children and youth with and without special needs, (b) discussing the influences of cultural differences as it influences the identification of, assessment of, and intervention with children and youth with and at-risk for high incidence disabilities, (c) discussing the overrepresentation issues, and (d) identifying and reporting on evidenced based practices to support learners with and at-risk for high incidence disabilities. It includes 30 hour service learning experience. It is required for licensure as an Intervention Specialist for students with mild/moderate educational needs.

ESE 403 Introduction to Individuals with Moderate/Severe Educational Needs (3-2-4). Prerequisites: EDB 200, EDB 301, EDB 302, and ESE 400. This course involves the examination of the learning and behavioral characteristics of individuals with moderate and severe disabilities from birth through adulthood, and the exploration of implications for a comprehensive service delivery system and trends in best practices, both current and historical. It includes 30 hour service learning experience. It is required for licensure as an Intervention Specialist for students with moderate/intensive educational needs.

ESE 404 Teaching Students of Varying Abilities (3-0-3). Prerequisites or Corequisites: EDB 200, EDB 301, and EDB 302 (except for Music Education students). This course is a survey of educational issues related to serving individuals with disabilities as well as those considered to be gifted and talented. It includes an introduction to the characteristics, etiology, classification, incidence, and learning potential of students with special needs, as well as the legal aspects involved in teaching these students. It addresses methods for accommodating learners of varied ability within the general classroom through alteration of the environment, curriculum, and instruction. It is required for Middle Childhood and Adolescent/Young Adult licensures.

ESE 410 Diagnostic Assessment and Multifactored Evaluation for Students with Moderate and Severe Disabilities (2-0-2). Prerequisite: ESE 400. Students acquire competencies associated with norm and criterion-referenced assessment and understand the conditions under which assessments should be planned and conducted. Students also gain competency with the interpretation and analysis of assessment information. It is required for licensure as an Intervention Specialist for students with moderate/intensive educational needs.

ESE 411 Classroom Management and Intervention for Severe Behavior Problems (4-0-4). Prerequisite: ESE 400. The course includes approaches to classroom management that foster productive social interactions and are most compatible with instructional goals. It also examines the characteristics and causes of various severe behavior problems and research-based techniques for intervention. It is required for licensure as an Intervention Specialist for students with mild/moderate and moderate/intensive educational needs.

ESE 412 Collaboration and Partnerships Among Parents and Professionals in Special Education (4-0-4). Prerequisite: ESE 400. This course highlights research and productive strategies for establishing successful collaborative relationships with parents of children with disabilities, paraprofessionals, and other professionals along with co-teaching skills. It fosters sensitivity to the needs of culturally and linguistically diverse families. Emphasis is placed on collaboration and partnerships with other professionals, paraprofessionals, and parents as team members designing, implementing, and evaluating appropriate educational experiences for persons with disabilities. It is required for all Intervention Specialist licenses in special education.

ESE 413 Supporting Medical and Intensive Educational Needs (4-0-4). Prerequisite: ESE 403. This is an overview of medical disabilities and the educational implications for children with medical- and/or health-care needs. It covers analysis of strategies for cross-disciplinary assessment, planning, technology use, and program implementation, including such disciplines as physical, occupational, and speech therapy; psychology; and other health-related fields. It is required for licensure as an Intervention Specialist for students with moderate/intensive educational needs.

ESE 415 Assessing Young Children (4-0-4). Prerequisites: ECE 300 (for Early Childhood students), ECE 403. This course provides a basic understanding of the components of developmental screening, child assessment, child identification, and program evaluation for children "at-risk" and those with disabilities from birth through age 8. Assessment and evaluation focus on child and family variables. Construction of Individualized Education Programs (IEPs) and Individualized Family Service Plans (IFSPs) are stressed. Required for Early Childhood licensure.

ESE 416 Life Skills and Career Planning in Special Education (2-0-2). Prerequisite: ESE 402. This is the study of appropriate curriculum, instructional techniques, methods, and materials for the development of vocational, career, and functional living skills in students with mild/moderate disabilities. It addresses planning for the transition from secondary education to work, postsecondary education, and community involvement. It is required for licensure as an Intervention Specialist for students with mild/moderate educational needs.

ESE 419 Life Skills Assessment, Curriculum, and Instruction (4-0-4). Prerequisite: ESE 403. The course involves the exploration of issues related to assessment, functional curriculum theory, Individualized Education Program (IEP) development, choice of teaching objectives, use of technology, and procedures for implementation of quality functional programs for individuals with intellectual disabilities, multiple disabilities or emotional disturbance. Topics include task analysis, prompting procedures, classroom structure, and monitoring of ongoing progress. It is required for licensure as an Intervention Specialist for students with moderate/intensive educational needs.

ESE 420 Assessment, Curriculum, and Instruction to Meet the Academic and Behavioral Needs of Students with Moderate/Intensive Educational Needs (4-0-4). Prerequisite: ESE 403. This is an exploration of issues related to assessment, curriculum theory, Individualized Education Program development, and academic and behavioral approaches for individuals with emotional disturbance or multiple disabilities. Emphasis is placed on teaching academic skills, and social and emotional behaviors. It is required for licensure as an Intervention Specialist for students with moderate/intensive educational needs.

ESE 421 Assessment for Instructional Needs (3-2-4). Prerequisite: ESE 402. The focus of this course is the administration and interpretation of formal and informal assessment tools for students with mild/moderate disabilities. The course emphasizes the direct link between assessment and the design of appropriate instruction. Course assignments require students to make decisions in selecting and administering assessments as well as developing appropriate educational plans for children with disabilities based on assessment outcomes. Clinical or field experience is required.

ESE 422 Assessment-Based Curriculum and Instruction for Students with Mild/Moderate Disabilities (3-2-4). Prerequisites: ESE 402, and ESE 421. The focus of this course is on the development and utilization of appropriate assessment-based curriculum and instruction for individuals with mild/moderate educational needs. Participants in this course will develop an understanding of the relationships among assessment issues, learning environments and instructional practices employed in learning environments for students with disabilities. Clinical or field experience is required.

ESE 423 Introduction to Individuals with Autism (4-0-4). Prerequisites: ESE 400 recommended. Exploration of characteristics of individuals (birth through adulthood) with autism, along with their varying needs for intervention and educational services. Examination of historical and current issues and trends related to the treatment of autism.

ESE 424 Curriculum and Instruction for Young Children with Autism (4-0-4). Prerequisites: ESE 423, ESE 411. Examination of developmentally and individually appropriate approaches to early intervention as well as preschool and the primary grades for young children with autism. The course content includes general and individualized (e.g., IFSP and IEP) curricular issues, intervention strategies, and instructional approaches.

ESE 425 Curriculum and Instruction for School-Age Children and Adolescents with Autism (4-0-4). Prerequisites: ESE 423, ESE 411. Study of appropriate curriculum, instructional techniques, methods, and materials for the development of academic, vocational, and functional living skills in school-age children and adolescents with autism. Addresses planning for the transition from secondary education to work, postsecondary education, and community involvement.

Please see also the following EST courses required for licensure for Intervention Specialists for students mild to moderate or moderate to intensive educational needs:

- EST 377 Practicum in Special Education: Mild/Moderate Intervention Specialists
- EST 378 Practicum in Special Education: Moderate/Intensive Intervention Specialists
- EST 487 Student Teaching for Mild/Moderate Intervention Specialists
- EST 488 Student Teaching for Moderate/Intensive Intervention Specialists

EUT Courses (Part of the CSUTeach Program)

EUT 201: Step 1: Inquiry Approaches to Teaching (1-0-1). This course will provide students with an opportunity to do the following: 1) explore teaching in science or mathematics as a career; 2) experience early field experiences in teaching; and 3) explore the theory and practice that is necessary to design and deliver excellent instruction. Participants will obtain first-hand experience with planning and implementing inquiry-based science or mathematics lessons in elementary classrooms. Course includes a grades 4-6 field experience in addition to class meeting times.

EUT 215: Step 2: Inquiry-Based Lesson Design in Mathematics (1-0-1). Prerequisites: EUT 201. This course will provide students with an opportunity to continue to explore mathematics teaching as a career through focused field experiences at the middle school level using inquiry-based instructional techniques. Participants build upon and practice inquiry-based lesson design skills that were introduced in EUT 201 and will also become familiar with exemplary mathematics curricula for the middle school setting. Course includes a grades 6-8 field experience in addition to class meeting times.

EUT 217: Step 2: Inquiry-Based Lesson Design in Science (1-0-1). Prerequisites: EUT 201. This course will provide students with an opportunity to continue to explore science teaching as a career through focused field experiences at the middle school level using inquiry-based instructional techniques. Participants build upon and practice inquiry-based lesson design skills that were introduced in EUT 201 and will also become familiar with exemplary science curricula for the middle school setting. Course includes a grades 6-8 field experience in addition to class meeting times.

EUT 210 Perspectives on Science & Mathematics (3-0-3). Prerequisites: EUT 215 or 217. This course explores a selection of topics and episodes in the history of science and mathematics. The specific objectives and expectations are part of four broad, interlocking goals: 1) provide an overview of the history of science and mathematics; 2) enable future teachers to enact these historical perspectives and contexts throughout their pedagogy; 3) promote intellectual curiosity and sharpen critical thinking skills; and 4) improve presentation and writing skills.

EUT 302 Knowing & Learning in Mathematics & Science (3-0-3). Prerequisite or Co-requisite: EUT 201. The goal of this course is to develop a powerful tool kit of approaches to knowing and learning in mathematics and science. This course focuses on issues of what it means to learn and know science and mathematics including the following: 1) how knowing and learning are structured; 2) the tensions between general, cross-disciplinary characterizations of knowing (e.g., intelligence) and the specifics of coming to understand powerful ideas in mathematics and science; 3) connections between kinds of assessments and theories of knowing; and 4) various uses of technology associated with specific approaches to learning.

EUT 305 Classroom Interactions (3-3-3). Prerequisites: EUT 302. This course continues the process of preparing future teachers to teach mathematics and science in secondary settings by providing opportunities to see how theories explored in EUT 302 play out in instructional settings. Students will design and implement instructional activities informed by their understanding of what it means to know and learn mathematics and science and then evaluate the outcomes of those activities on the basis of student artifacts (i.e., what students say, do, or create). An important focus of the course is on building awareness and understanding of equity issues and their effects on learning. This course has a 40-hour field experience in addition to weekly class meeting times.

EUT 315 Project-Based Instruction in Mathematics (3-5-3). Prerequisites: EUT 305. Project-based instruction engages learners in exploring authentic, important, and meaningful questions of real concern to students. This course also provides opportunities for candidates to gain experience in assessing, preparing and teaching problem-based lessons through an extensive associated field experience. Physical materials and strategies for teaching mathematics at the intermediate and secondary level are considered, as are student characteristics, teaching and learning styles, issues of equity and diversity, and constructivist theories of learning. The course has an 80-hour field experience in addition to weekly class meeting times. Field experience must be applied for at least one semester in advance.

EUT 317 Project-Based Instruction in Science (3-5-3). Prerequisites: EUT 305. Project-based instruction engages learners in exploring authentic, important, and meaningful questions of real concern to students. This course also provides opportunities for candidates to gain experience in assessing, preparing and teaching problem-based lessons through an extensive associated field experience. Physical materials and strategies for teaching science at the intermediate and secondary level are considered, as are student characteristics, teaching and learning styles, issues of equity and diversity, and constructivist theories of learning. The course has an 80-hour field experience in addition to weekly class meeting times. Field experience must be applied for at least one semester in advance.

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Professors: Charles K. Alexander, Dan Simon, Vijaya K. Konangi, F. Eugenio Villaseca, Fuqin Xiong (Chairperson); **Associate Professors:** Pong P. Chu, Yongjian Fu, Zhiqiang Gao, Murad Hizlan, Nigamanth Sridhar, Ana Stankovic, Siu-Tung Yau, Chansu Yu, Wenbing Zhao; **Assistant Professors:** Lili Dong, Ye Zhu; **Adjunct Faculty:** Tien-Li Chia, Allen Morinec, Louis R. Nerone, Robert Romanofski; **Emeritus Faculty:** James H. Burghart, John F. Donoghue, Manju Ghalla Goradia, Eugene A. Klingshirn, George L. Kramerich, James E. Maisel, A. Haq Qureshi, Ronald G. Schultz.

Course Descriptions

EEC 310 Electric Circuits I (4-0-4). Prerequisite or corequisite: ESC 250. Basic electrical concepts; network theorems; circuit laws; resistance, op-amps, capacitance, inductance, response of first order (RC and RL) circuits to initial conditions and step forcing functions. Laplace transforms and circuit analysis with Laplace transforms. Transfer functions, poles and zeros, and convolution. Integration of computer applications based on PSPICE and MATLAB.

EEC 311 Electric Circuits II (4-0-4). Prerequisites: EEC 310, ESC 250, and a grade of C or better in EEC 310. Prerequisite or corequisite: PHY 244. Continuation of EEC 310. Fourier series and Fourier transform analysis; frequency response, resonance, and Bode plots; AC steady-state analysis and AC power; polyphase AC circuits; magnetically-coupled circuits; and two-port networks. Integration of computer applications based on PSPICE and MATLAB.

EEC 312 Electric Circuits Laboratory (0-3-2). Prerequisite: EEC 310. Co- or prerequisite: EEC 311. Selected laboratory experiments in electric circuits.

EEC 313 Electronics I (4-0-4). Prerequisites: ESC 250, EEC 310. Prerequisite or corequisite: EEC 311. Rectifier diodes and applications, Zener diodes and applications, biasing BJT and FET amplifiers, small signal analysis of BJT and FET amplifiers, and power amplifiers.

EEC 314 Electronics II (4-0-4). Prerequisites: EEC 311, EEC 313. Corequisite: EEC 315. Operational amplifiers and op-amp applications, active filters, oscillator circuits, and amplifier frequency response.

EEC 315 Electronics Laboratory (0-3-2). Prerequisites: EEC 311, EEC 313. Corequisite: EEC 314. Selected experiments on electronic circuits.

EEC 316 Electronics Device Laboratory (0-3-1). Prerequisites: EEC 311, EEC 313. Selected experiments on electronic circuits.

EEC 361 Electromechanical Energy Conversion (4-0-4). Prerequisite: EEC 311. Energy storage and conversion, force and emf production, coupled circuit analysis of systems with both electrical and mechanical inputs, applications to electric motors and generators and other electromechanical transducers.

EEC 382 Digital Systems and Lab (3-2-4). Prerequisite: EEC 310. Coverage includes binary number systems, Boolean algebra, combinational logic design principles, combinational logic design practices, finite state machine, sequential logic

design principles, and sequential logic design practices. Computer simulation, experiments and projects are integrated with lectures.

EEC 391H Junior Honors (Credit as arranged). Prerequisites: Junior standing, Honors standing or permission of university Honors Program, and approval of student's honors adviser. Student will take an existing 300-level course in the department. The course will be modified to provide additional material appropriate to an honors course. The course modifications will be arranged by mutual consent between the student, the course instructor, the student's honors adviser, and the department's undergraduate adviser. May be repeated for credit.

EEC 414 Writing in Electrical and Computer Engineering (2-0-2). Prerequisites: None. This course is designed to enhance the ability of students to write effectively on topics within the discipline of electrical and computer engineering. A substantial written report is one of the requirements. Students enrolled in EEC 414 must be concurrently enrolled in any 300- or 400-level content-based EEC course excluding laboratory courses and Senior Design. Prior to registering for EEC 414, students must obtain a written agreement of the instructor of the content-based course certifying that that instructor will serve as a grader of the writing required in EEC 414. The content course instructor, in consultation with the student, will determine the topic of the written report.

EEC 417 Embedded Systems (4-0-4). Prerequisites: EE: EEC 314, EEC 315, EEC382; CE: EEC 313, EEC 316, EEC382. Software design of microcontroller-based embedded systems. Topics covered include: microcontroller architecture, assembly programming, C programming, real time interrupts, program size considerations, input/output issues, analog-to-digital conversion, and serial port reception/transmission.

EEC 421 Software Engineering (4-0-4). Prerequisite: EEC 483. Software process, methods and tools; phases of the software development process including requirement analysis, design, coding and testing; methods and techniques for software engineering and software project management, metrics and quality assurance.

EEC 430 Digital Signal Processing (4-0-4). Prerequisites: EE: EEC 314, EEC 315, , EEC382; EEC 313, EEC 316, EEC382. Modeling of DSP operations using discrete-time signals and systems: difference equations, Z-transforms, Fourier methods; signal sampling (A/D) and reconstruction (D/A); digital filters; sample rate converters and oversampling; DFT, fast convolution, and spectrum estimation; and selected applications. Out-of-class projects done on DSP equipment in lab.

EEC 440 Control Systems (4-0-4). Prerequisites: EE: EEC 314, EEC 315; CE: EEC 313, EEC 316. Feedback control systems: characteristics and analysis of feedback control systems; controlled system modeling; performance measures; stability; design using the root locus, frequency response, and state variable methods; characteristics of digital control loops; and digital controller design using the emulation method.

EEC 441 Control Systems Laboratory (0-3-2). Prerequisite: EE: EEC 315, CE: EEC 316. Pre- or co-requisite for EE and CE: EEC 440. A series of control system experiments including process control using a PID controller, and modeling and digital control of a torsion mechanism.

EEC 442 The Art and Science of Feedback Control (4-0-4). Prerequisites: Senior standing. This course traces the idea of feedback control throughout history and is made broadly accessible to engineering and science majors alike at both undergraduate and graduate levels. By going back in time and trying to understand the problems that precipitated the great discoveries in controls, students strive to grasp the thought process of the great minds in the history of controls, leading to understanding and appreciation of the art and science of problem solving in the area of automatic control systems.

EEC 447 Engineering Applications of Programmable Logic Controllers (4-0-4). Prerequisites: EE: EEC 314, EEC 315; CE: EEC 313, EEC 316. Applications of PLC's including ladder logic concepts, data manipulation, analog input and output with an emphasis on PID control, network configurations and concepts, and the solution of practical industrial problems through design projects.

EEC 450 Communications (4-0-4). Prerequisites: EE: EEC 314, ESC 310; CE: EEC 311, EEC 313, ESC 310. Analog modulation techniques, system performance under noise, digital communication concepts, pulse and digital modulation schemes, data communication techniques, and spread spectrum communications.

EEC 451 Communications Laboratory (0-3-2). Prerequisites: EE: EEC 314, EEC 315; CE: EEC 313, EEC 316. Pre- or co-requisite for EE and CE: EEC 450. Use of communications-specific test and measurement equipment. Experiments on spectrum analysis, noise, amplitude, frequency and phase modulation, mixers, IF amplifiers, pulse modulation, sampling, baseband modulation, optimum receivers, and amplitude-, frequency-, and phase-shift keying.

EEC 460 Engineering Electromagnetics (4-0-4). Prerequisites: EEC 361. Fundamental laws of electromagnetic fields: Gauss's, Faraday's, Ampere's, and Biot-Savart's. Maxwell's equations as applicable to finite and infinitesimal regions in three-dimensional space and their engineering implications. Source distribution and boundary value engineering problems and their analytical or numerical solution. Electromagnetic waves propagation. Applications to the design of transmission lines, waveguides, and antennas.

EEC 470 Power Electronics I (4-0-4). Prerequisites: EEC 314 and EEC 361. Analysis, performance characterization, and design of power electronics converters using diodes, thyristors, and controllable semiconductor switches. Power supplies and DC and AC motor drives.

EEC 471 Power Electronics and Machines Laboratory (0-3-2). Pre- or co-requisite*:* EEC 470. Experiments dealing with single-phase and three-phase transformers; steady-state performance of dc, induction, and synchronous machines; rectifiers, inverters, switch-mode converters and their applications in adjustable motor drives.

EEC 473 Power Systems (4-0-4). Prerequisite: EEC 361. Power system components modeling: transformers, generators, transmission lines; power flow; economic scheduling of generation; power system faults and transient stability.

EEC 474 Power Electronics II (4-0-4). Prerequisite : EEC 470. Advanced course in Power Electronics: switching function representation of converter circuits (DC-DC, AC-DC, DC-AC and AC-AC), resonant converters, adjustable torque drives, field oriented induction motor control, residential and industrial applications, utility applications, and power supply applications.

EEC 483 Computer Organization (4-0-4). Prerequisites EEC 382*,* CIS 260, CIS 265, CIS 334, CIS 340, CIS 345. Illustration of basic architecture concepts and control circuit implementation. Topics include basic computer organization, central processor organization, instruction set design and addressing schemes, microprogram control, input-output organization, and memory organization.

EEC 484 Computer Networks (4-0-4). Prerequisite: EEC 483. Network architectures, layered network protocol design issues, reference models, network standards, data link and medium access control protocols, routing algorithms and the Internet Protocol, ARP and DHCP, transport-level protocols including TCP and UDP, application-level protocols such as HTTP and DNS.

EEC 487 Advanced Digital Systems (3-2-4). *Prerequisite: EEC382.* Coverage includes CPLD/FPGA devices, digital design methodology, VHDL hardware description language, VHDL description for combinational circuits, sequential circuits, FSM (finite state machine) and FSMD (finite state machine with datapath).

EEC 488 Advanced Digital Lab (2-3-4). *Prerequisite: EEC487, EEC483, CIS345.* Experiments and projects utilizing VHDL, EDA software tools, soft-core processor and FPGA devices to design, synthesize, simulate, implement and test advanced digital systems.

EEC 490 Senior Design (4-0-4). Prerequisites: Communications: EEC 450; Controls: EEC 440; Digital: EEC 480 or EEC 483; Power: EEC 470. Students are formed into small design groups (typically three students) and assigned a project. In addition to carrying out the design project, students are required to keep a design notebook, to write progress reports and a final report, and to make an oral presentation of the design effort.

EEC 491H Senior Honors (Credit as arranged). Prerequisites: Senior standing, Honors standing or permission of university Honors Program, and approval of student's honors adviser. Student will take an existing 400-level course in the department. The course will be modified to provide additional material appropriate to an honors course. The course modifications will be arranged by mutual consent between the student, the course instructor, the student's honors adviser, and the department's undergraduate adviser. May be repeated for credit.

EEC 492 Special Topics in Electrical and Computer Engineering (4-0-4). Prerequisites: approval of instructor and academic adviser. Presentation and discussion of a current topic in electrical and computer engineering.

EEC 495 Undergraduate Research (Credit as arranged). Prerequisites: approval of research adviser and academic adviser. Participation in on-going research. Student will be involved in an original investigation. Course may be substituted for a regularly required departmental course in the curriculum.

EEC 495H Honors Research (Credit as arranged). Prerequisites: Junior or Senior standing, Honors standing or permission of university Honors Program, and approval of student's honors adviser. Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student's honors adviser, and the department's undergraduate adviser. May be repeated for credit.

EEC 496 Independent Study (Credit as arranged). Prerequisite: Approval of instructor and academic adviser. Independent study on a special topic under the guidance of a faculty member. May be repeated up to 8 credits.

EEC 499H Honors Thesis (Credit as arranged). Prerequisites: Senior standing, Honors standing or permission of university Honors Program, and approval of student's honors adviser. Student will be involved in an engineering research or development project under the personal supervision of a faculty member. The specific responsibilities of the student will be arranged by mutual consent of the student, the student's honors adviser, and the department's undergraduate adviser. The culmination of this course is a written thesis that is approved by a committee of departmental faculty members. The student will also present a public, oral defense of the thesis to the thesis committee. May be repeated for credit.

Engineering Science Courses

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Faculty

Engineering Science courses are common courses available to the departments of Chemical and Biomedical, Civil and Environmental, Electrical and Computer, and Mechanical Engineering, and Engineering Technology. The courses are taught in cooperation with the departments involved.

Course Descriptions

ESC 100 New Student Orientation (1-0-1). Strategies for a successful college experience, including study habits, time management, learning styles, and the many rules and regulations to consider when working toward a degree. Includes an in-depth look at the differences between the six majors offered in the Engineering College.

ESC 102 Technical Writing & Professional Communication (3-0-3). Prerequisite: ENG 101. Technical writing as a process for organized expression of ideas and knowledgeable opinion; oral presentation and writing of letters, reports, memos, and proposals for effective communication; utilization of word-processing software to assist in the writing process. English: Equivalent to ENG 102.

ESC 120 Introduction to Engineering Design (0-4-2). Prerequisite: Placement within one of the academic colleges at Cleveland State University. An introduction to the practice of engineering design, use of hand tools, reverse engineering, the creative process, and the various career paths within engineering. Course is intended for engineering students and for any other student interested in understanding the basics of engineering design and learning about engineering as a possible career.

ESC 151 C Programming (2-2-3). Prerequisite: MTH 168 or MTH 181 as a prerequisite or corequisite. Fundamentals of scientific and engineering problem-solving using computers; covers ANSI C and concepts of accuracy and efficiency in programming solutions to engineering problems.

ESC 152 Programming with Matlab (3-2-3). Prerequisite: MTH 168 or MTH 181 as a prerequisite or corequisite. Fundamentals of scientific and engineering problem-solving using computers. Covers the MATLAB language and concepts of accuracy and efficiency in programming solutions to engineering problems.

ESC 200 Engineering History and Heritage (3-0-3). Prerequisite: none. History and heritage of civil, environmental, mechanical, electrical, industrial, manufacturing, and chemical engineering. Uses a case study approach with emphasis on northeast Ohio. Examines how constraints and considerations such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability influence engineering practice. How professional and ethical responsibility affect engineering. Places the impact of engineering solutions in a global, economic, environmental, and societal context.

ESC 201 Statics (3-0-3). Prerequisites: MTH 181, PHY 241 or 243. Mechanics of forces and force systems; static equilibrium, forces in structures and machines, friction, centroids, moments of inertia, radii of gyration, and virtual work.

ESC 202 Dynamics (3-0-3). Prerequisite: ESC 201. Motion of particles and rigid bodies subjected to unbalanced force systems; the kinematics of plane motion, relative motion, coriolis acceleration; the concept of force, mass and acceleration; work and energy, and impulse and momentum.

ESC 203 Statics and Dynamics (4-0-4). Prerequisites: MTH 181, PHY 241 or 243. Statics-mechanics of forces, friction, moment of a force, free body diagrams, 2D static equilibrium. Dynamics-kinematics of particles, kinetics of particles in 2D, force and acceleration, work and energy, impulse and momentum.

ESC 211 Strength of Materials (3-0-3). Prerequisite: ESC 201. Study of stress, strain and stress-strain relations; stress-load and load-deformation relationships for axial, torsion and bending members; buckling of columns; combined stresses, inelastic behavior.

ESC 250 Differential Equations for Engineers (3-0-3). Prerequisite: MTH 182 or permission of instructor. Pre- or corequisite: ESC 150 or ESC 151. First-order differential equations, and linear, and nonlinear differential equations. Laplace transform techniques. Applications to engineering problems.

ESC 270 Materials Science and Engineering (3-0-3). Prerequisites: CHM 261 and MTH 168 or equivalent. Structure of materials and their relationship to the mechanical and physical properties of materials, applications and uses.

ESC 282 Engineering Economy (3-0-3). Prerequisite: Sophomore standing. Course focuses on the coupling of technical analysis and economic feasibility to determine the best course of action among alternatives competing for scarce resources in both public and private sector projects. Studies the principles, concepts, and methodology of the time value of money as applied to governmental, industrial, and personal economic decisions. Topics include benefit-cost analysis, inflation, depreciation, taxes, tax abatements, risk and sensitivity analysis, and the comparison of alternatives. Discussion includes the ethical and social responsibilities of engineers as they apply to project decisions affecting job creation and loss, personnel placement, and capital expenditure.

ESC 300 Co-op Education Experience (1-0-1). Required of and limited to students on co-op work assignments in all colleges. One hour of credit is awarded for each successful assignment completed. This credit is not counted toward the number of hours needed for graduation but it will add academic hours to a student's credit total and enhance career preparedness.

ESC 301 Fluid Mechanics (3-0-3). Prerequisite: ESC 250. Study of fluid properties, hydrostatics, friction loss, dimensional analysis, statics, and dynamics of compressible and incompressible fluids; continuity, energy, and momentum principles; laminar and turbulent flow; general concepts of boundary layer flow.

ESC 310 Engineering Statistics and Probability (3-0-3). Prerequisite: MTH 182. Concepts of statistics and probability for engineers. Probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; response surface methodology.

ESC 315 Electrical Engineering Concepts (3-0-3). Prerequisites or corequisites: MTH 182, ESC 250. Solutions of linear DC and AC circuits, impedance, power, power factor correction, operational amplifiers and rotating DC and AC machines; applications to engineering situations.

ESC 321 Thermodynamics I (3-0-3). Prerequisite: MTH 182. Classical thermodynamic approach to systems and to control volumes containing simple compressible substances; establishment of important thermodynamic properties and their application to the zeroth, first and second laws analysis of systems and control volumes; analysis of ideal and actual gas cycles.

ESC 350 Linear Algebra and Numerical Methods in Engineering. (2-2-3). Prerequisites: ESC151, ESC 152 or equivalent computer programming language, MTH 182. Prerequisite or corequisite: ESC 250, MTH 283. Vectors and vector operations, matrices and determinants, eigenvalues and eigenvectors, systems of linear and non-linear equations, applications and numerical methods. MATLAB for linear algebra applications.

Engineering Technology Courses

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Faculty

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Associate Professors: A. Fouad Abou-Ghalioum, Robert J. Mikel, Majid Rashidi (Interim Chair), Donald F. Zeller; **Associate Professor Emeritus:** John R. Zeller; **Assistant Professor:** Harry W. Fox.

Course Areas

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Electronic Engineering Technology Courses

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Associate Professors: A. Fouad Abou-Ghalioum, Robert J. Mikel, Majid Rashidi (Interim Chair), Donald F. Zeller; **Associate Professor Emeritus:** John R. Zeller; **Assistant Professor:** Harry W. Fox.

Course Descriptions

EET 315 Microprocessor & Digital System Design (3-0-3).

EET 316 Microprocessor & Digital System Design Lab (0-3-1). Prerequisites: associate-degree-level microprocessor course and digital logic course. Architecture and hardware design of microprocessor-based system, including bus structure, interrupts handling, I/O ports, control signal, and peripherals. Combinational and sequential logic circuitry implemented with Field Programmable Gate Array design methodology.

EET 320 Embedded Microprocessor Systems (3-0-3).

EET 321 Embedded Microprocessor Systems Lab (0-3-1). Prerequisites: EET 315, EET 316. A comprehensive understanding of the instruction set and the related programming algorithmic thought process required to design with and incorporate microprocessor-based systems in dedicated applications. Topics include serial and parallel data communication, exception processing, file transfer protocol, I/O interfacing and peripherals, and assembly language programming.

EET 330 Advanced Circuit Analysis (3-0-3). Prerequisites: associate-degree-level DC and AC circuit courses, MTT 300. Corequisite: MTT 301. Transform methods in circuit analysis, including the detailed analysis of circuits, waveforms, time-domain techniques, Laplace transform solutions, transfer functions, frequency response and Bode diagrams.

EET 410 Power Electronic Systems (3-0-3).

EET 411 Power Electronic Systems Lab (0-3-1). Prerequisites: associate-degree-level DC and AC machines courses, MTT 301, EET 330. Fundamentals of mechanics, DC machines, and AC machines reviewed. Design considerations of power electronic rectification, controlled rectification, DC chopper power modulators, and DC-to-AC inverters. Fourier series analysis of inverter waveforms and power filter design are examined.

EET 415 Electronic Circuits, Signals, and Systems (3-0-3).

EET 416 Electronic Circuits, Signals, and Systems Lab (0-3-1). Prerequisites: associate-degree-level analog electronics courses, EET 315, EET 315, and EET 330. Analog electronics with applications using current integrated circuit devices. Analysis techniques of linear and non-linear systems and ideal and non-ideal device characteristics with an emphasis on practical design concepts.

EET 430 Applications of FPGAs and VHDL (3-0-3). Prerequisites: EET 315, 316. Programming in Very High Speed Integrated Circuit Hardware Description Language (VHDL) that describes the inputs and outputs, behavior, and functions of circuits. Applications of logic circuitry will be implemented with Field Programmable Gate Array (FPGA) technology.

EET 440 Feedback Control Systems (3-0-3).

EET 441 Feedback Control Systems Lab (0-3-1). Prerequisite: EET 330. Algebraic diagram representation of open and closed loop processes. Block diagram reduction methods. Fundamental analysis methods of linear feedback controls using transfer function, time-domain, and frequency-domain methodologies. Analysis and design is also extended to non-linear processes using computer simulation methods. Simulation evaluations include closed loop tuning, dead-time process control, and electro-mechanical motion control.

EET 450 Digital Signal Processing (3-0-3).

EET 451 Digital Signal Processing Lab (0-3-1). Prerequisites: EET 330. This course introduces DSP theory, with an emphasis on digital filter design and implementation. Topics covered include discrete-time system analysis, sampling theory, Z-transforms, IIR and FIR filter design techniques, and Fourier analysis. Technical Elective.

EET 460 Senior Design A (1-0-1). Prerequisites: Senior standing and all required 300- and 400-level program courses. Planning for the capstone course, EET 480 Senior Design B, to demonstrate the ability to define a problem in engineering terms and develop a realistic plan to complete an engineering project. A comprehensive written plan including budget, equipment requirements, time schedule, problem description, design alternatives, and tentative design will be prepared. Students are expected to extend their knowledge through self-study and research in developing and assessing design options. Ethical, legal, and environmental considerations are included. Students are encouraged to propose team projects.

EET 470 Machine Vision and Image Processing (3-0-3). Prerequisites: Senior standing and permission of instructor. Image formation, image filtering, template matching, histograms, and morphological operations applied to vision inspection system. Technical Elective.

EET 480 Senior Design B (1-5-3). Prerequisite: EET 460 in previous semester. Complete project development from concept and proposal submitted in EET 460. Final written and oral reports will be required.

EET 494 Advanced Topics in Electronics Engineering Technology (3-0-3). Prerequisite: Senior standing. Topics of current technical interest in electronics, controls, and computer industries, applying core concepts across the electronic engineering technology curriculum.
NOTE: The content of this course changes periodically to provide the injection of recent technological topic areas and subject material into the curriculum. May be repeated for credit under different course subtitles. Technical Elective.

EET 497 Special Topics in Electronics Engineering Technology (1 to 6 credits). Prerequisite: Senior standing. Independent study on a special topic or project under the guidance of a faculty member. May be repeated for credit. Technical Elective.

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Faculty

Associate Professors: A. Fouad Abou-Ghalioum, Robert J. Mikel, Majid Rashidi (Interim Chair), Donald F. Zeller; **Associate Professor Emeritus:** John R. Zeller; **Assistant Professor:** Harry W. Fox.

Course Descriptions

GET 310 Computer System Technology (3-0-3). Prerequisites: EET 315, EET 316. Data and computer communication principles, including structure and organization, protocols, linkages and interfacing, signal and media types, coding theory, local area networks (LANs), and industrial data communication standards.

GET 320 Robotics I (2-0-2).

GET 321 Robotics I Lab (0-4-2). Prerequisites: associate-degree-level physics, statics, dynamics, algebra, trigonometry, and calculus; or ESC 203, or MET 300. Prerequisite or corequisite: MTT 300. An overview of the technology, methods, and practices of robotics and mechatronics (the integration of mechanical, electrical, and computing elements), with basic details on key topics such as kinematics, mechanisms, actuators, sensors, motors, electronic hardware, controllers, and vision. Development of a math foundation in linear algebra and vectors to describe robotic configurations of various degrees of freedom. Laboratory projects to include construction of robots (e.g. LEGO Mindstorms Robots), which are driven by a microcontroller and exhibit various behaviors. Technical Elective.

GET 420 Robotics II (2-0-2).

GET 421 Robotics II Lab (0-4-2). Prerequisites: GET 320, GET 321. Corequisites: GET 430, GET 431, or EET 440, EET 441. Continued study of the technology, methods, and practices of robotics and mechatronics, with emphasis on robots in computer integrated manufacturing. Topics include drive systems, control techniques, path control, end-of-arm tooling, automation sensors, and machine vision. Laboratory projects include sensor testing, experiments with actuators and mechanisms, control scheme simulations, projects and case study problems. Technical Elective.

GET 430 Electrical Power, Controls, and Instrumentation (3-0-3).

GET 431 Electrical Power, Controls, and Instrumentation Lab (0-3-1). Prerequisites: MTT 301 and associate-degree-level electrical fundamentals. Fundamentals of electrical and electronic power, controls, and instrumentation for Mechanical Engineering Technology students. Electric machines and control. Sensors and actuators and interfacing to PLC and PC. Feedback control theory and implementation. Automated data collection.

GET 440 Applications of Programmable Logic Controllers (4-0-4). Prerequisites: MTT 300 and a high-level programming language. A practical course emphasizing the use of PLCs in a wide range of industrial applications. Topics include ladder logic concepts, data manipulation, timing, discrete and analog I/O, network configuration, sequencers, and shift registers.

GET 444 HMI Applications of Programmable Logic Controllers (3-0-3). Prerequisite: GET 440. Develop human-machine-interface for programmable logic controller's industrial applications. HMI includes dynamic graphics, operator station control, trending, data logging, and recipes. Technical Elective.

GET 455 Robotics System Design (3-0-3). Prerequisites: GET 320, GET 321, GET 420, GET 421, and GET 430 or EET 440. Design of robotics systems, including concept development, modeling, simulation, selection, and optimization of equipment, sensors, and controllers. Economic consideration, reliability and safety, and documentation of final design. Examples of robotics systems designs to be chosen from industrial and non-industrial applications. Technical Elective.

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Faculty

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Associate Professors: A. Fouad Abou-Ghalioum, Robert J. Mikel, Majid Rashidi (Interim Chair), Donald F. Zeller; **Associate Professor Emeritus:** John R. Zeller; **Assistant Professor:** Harry W. Fox.

Course Descriptions

MTT 300 Applied Mathematics (4-0-4). Prerequisites: associate-degree-level algebra, trigonometry, geometry, and introductory calculus. Applications of differential and integral calculus including advanced differentiation and integrations techniques as applied to engineering problems.

MTT 301 Advanced Applied Math (4-0-4). Prerequisite: MTT 300 or equivalent. Differential equations, transient analysis, Laplace transform methods. S-plane poles and zeros are applied specifically toward program applications.

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Associate Professors: A. Fouad Abou-Ghalioum, Robert J. Mikel, Majid Rashidi (Interim Chair), Donald F. Zeller; **Associate Professor Emeritus:** John R. Zeller; **Assistant Professor:** Harry W. Fox.

Course Descriptions

MET 300 Fundamentals of Engineering Mechanics (4-1-4). Prerequisites: associate-degree-level algebra, trigonometry, and geometry. Bridge course for associate-degree holders without familiarity with introductory level statics, dynamics, and strength of materials. Analysis of static equilibrium of trusses and frames including forces in members and joints. Section and mass properties. Static and dynamic friction. Dynamic of particles and bodies in translation or rotation. Fundamental properties of ductile and brittle metals for stress and strain. Direct stress and shear, bending stress, and torsional shear in components. Laboratory tensile test and bending deflection demonstrations.

MET 320 Advanced Mechanics of Materials (3-0-3). Prerequisites: associate-degree-level calculus, statics, and strength of materials courses or MET 300. Corequisite: MTT 300. Stress under combined loading, stress concentration factors, design stresses, Mohr's circle, endurance limit and fatigue life, and deflection of variable section beams, method of superposition, bucking. Temperature changes and press fits. Combined stress failure theories. Selection and processing of engineering metals, plastics, and composites. Heat-treating, cold working, and residual stresses. Temperature effects on strength, creep, and ductility.

MET 330 Advanced Dynamics (4-0-4). Prerequisites: associate-degree-level calculus, statics, and strength of materials courses or MET 300, and MTT 300. Displacement, velocity and acceleration of particles and rigid bodies with combined translation and rotation. Reaction and inertia forces and mass and polar moments of inertia. Analysis by equations of motion, force-acceleration, work-energy, and impulse-momentum. Conservative and non-conservative forces and moments. Free and forced vibrations, natural frequency, and fundamentals of damping and vibration isolation.

MET 345 Thermodynamics (4-0-4). Prerequisites: associate-degree-level calculus, dynamics, and fluid power. Corequisites: MTT 300, MET 320. The study of classical thermodynamics approach to system and control volumes, properties and processes of gases and vapors, zeroth, first, and second laws of systems and control volumes. Vapor and gas power systems. Refrigeration and heat pumps systems. Ideal gas mixtures and psychometrics, reacting gases and combustion.

MET 350 Fluid Mechanics (3-0-3). Prerequisite: MTT 300. Corequisite: MTT 301. The fundamentals of fluid mechanics, including the properties of fluids, pressure, hydrostatics and dynamics of fluid flow. Laminar and turbulent flow, friction losses, and sizing of pipes. Pump section and application. Selected course topics are included as computer programming projects.

MET 351 Thermal Fluids Lab (0-3-2). Prerequisite: MET 345. Corequisite: MET 350. Laboratory experiments in selected topics in fluids flow, heat transfer, and thermodynamics. Introduction to validity of measurements, statistical analysis, error and uncertainty analysis.

MET 410 Design of Machine Components (3-0-3).

MET 411 Mechanical Measurements Lab (0-3-1). Prerequisites: MET 320, MET 330, MTT 301. Design, analysis, and selection of components used in machines, including shafts, gears, clutches, brakes, bearings, fasteners, springs, and bolted and welded frames. Determination of appropriate design stresses and deflections for strength, durability, and function. Selection of materials and processing and manufacturing considerations.

MET 420 Heat Transfer (3-0-3). Prerequisites: MET 345, MET 350, MTT 301. The mechanisms of heat transfer, including conduction in one and two dimensions, forced and free convection, internal and external flows, heat exchangers, and introduction to radiation.

MET 425 Thermal Sciences for Electronic Engineering Technology (4-0-4). Prerequisites: associate-degree-level physics, MTT 301. Thermodynamics, heat transfer, and fluid flow principles and their applications to electronic equipment and digital devices. Topics include heat generation in printed-circuit boards and power transmission mediums, thermal resistance concepts, junction temperature, cooling and heating loads, air and liquid cooled heat sinks, thermoelectric power generation and refrigeration, dielectric heating, heat pipes and vortex tubes and their applications in electronic cooling. Technical Elective.

MET 441 Finite Element Analysis (3-0-3). Prerequisites: MET 320, MET 330, MET 410. This course provides an introduction to the finite element method for analysis of trusses, frames, and various machines. A finite element software package will be used to perform forces, stress, and displacement analysis, which will be compared with rigorous solutions using methods presented in statics, mechanics of materials, and machine design courses. Technical Elective.

MET 445 Solid Modeling Applications (3-0-3). Prerequisites: MET 330. Corequisites: MET 410, MET 411. Development and application of solid models of components and assemblies in engineering design and analysis. Use of solid models in problems related to component design, stress analysis, fluid flow, heat transfer, machine dynamics, and assembly interference. Production of engineering drawings, visual representations, and data files for machining and rapid prototyping. Accuracy and validity considerations of solid models.

MET 450 Mechanical System Design (3-0-3). Prerequisites: MET 330, MET 410, MET 411. Design and analysis of mechanical systems made up of gears, clutches, brakes, bearings, bolted and welded frames, considering interactions among components. Use of standard components. Determination of appropriate design stresses and deflections for strength, durability, and function. Optimization of assembly for cost, weight, durability, etc. Consideration of professional responsibilities in design. Technical Elective.

MET 460 Thermal System Design (3-0-3). Prerequisites: MET 345, MET 350. Corequisite: MET 420. Advanced topics of fluid mechanics, properties of fluids, pressure, hydrostatic, and dynamics of fluid flow. Design of thermal systems. Synthesis and sizing of a system design requirements. Synthesis of components of thermal systems under technical, economical, and social constrains. Technical Elective.

MET 465 Heating, Ventilating, and Air-Conditioning (HVAC) (3-0-3). Prerequisites: MET 345, MET 350, MET 351. Thermodynamics of gas mixture. Control of gas mixtures, heating, cooling, and humidity. Heating and cooling loads. Design and selection of HVAC systems. Design project. Technical Elective.

MET 470 Senior Design A (1-0-1). Prerequisites: Senior standing and all required 300- and 400-level program courses. Planning for the capstone course, MET 480 Senior Design B, to demonstrate the ability to define a problem in engineering terms and develop a realistic plan to complete an engineering project. A comprehensive written plan including budget, equipment requirements, time schedule, problem description, design alternatives, and tentative design will be prepared. Students are expected to extend their knowledge through self-study and research in developing and assessing design options. Ethical, legal, and environmental considerations are included. Students are encouraged to propose team projects.

MET 480 Senior Design B (1-5-3). Prerequisite: MET 470 in previous semester. Capstone course to demonstrate mastery of analysis and design techniques and engineering judgment applied to a realistic engineering problem. A comprehensive report including research, testing, and analysis results will be required along with an oral presentation. Professional, ethical, social, and legal considerations will be considered.

MET 485 Energy Conversion (4-0-4). Prerequisites: MET 345, MET 350. Introduction to global energy concerns, fossil and nuclear fuels, energy consumption analysis, energy management and conservation techniques, renewable and alternative energy sources. Modern energy conversion devices such as fuel cells, and power turbines. Technical Elective.

MET 494 Advanced Topics in Mechanical Engineering Technology (3-0-3). Prerequisite: Senior standing. Topics of current technical interest, applying core concepts across the Mechanical Engineering Technology curriculum. *NOTE:* The content of this course changes periodically to provide the injection of recent technological topic areas and subject material into the curriculum. May be repeated for credit under different course subtitles. Technical Elective.

MET 497 Special Topics in Mechanical Engineering Technology (1 to 6 credits). Prerequisite: Senior standing. Independent study on a special topic or project under the guidance of a faculty member. May be repeated for credit. Technical Elective.

English Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: Rachel Carnell, Jennifer M. Jeffers, Ted Lardner; **Associate Professors:** Nuala Archer, Gary R. Dyer, Michael Geither, Adrienne Gosselin, F. Jeffrey Karem, David Larson (Chairperson); **Assistant Professors:** Michael Dumanis, James Marino, Imad Rahman, Stella Singer, Adam Sonstegard; **Term Instructors:** John Brentar, Rajeswari Mohan, Barbara Walker; **Director:** William Breeze (First Year Writing Program); **Director:** Mary Murray McDonald (Writing Center); **Professors Emeriti/Emeritae:** Earl R. Anderson, Cynthia Edelberg, David Evett, John C. Gerlach, John A.C. Greppin, Daniel C. Melnick, Glending Olson, David Richardson, Leonard M. Trawick; **Associate Professors Emeriti:** Louis R. Barbato, James A. Barthelmess, Harold E. Dailey, P. Jeffrey Ford, Phillips Salman, Arnold G. Tew.

Course Descriptions

- First-Year Writing Courses
- Sophomore-Level Courses
- Upper-Division Courses
    - Courses on Writing and Composition Theory
    - Linguistics Courses
    - Literature Courses

The First-Year Writing Program

College Writing I and II (ENG 101 and 102) (or an approved equivalent writing course) are university-degree requirements, designed to concentrate on composition skills that are essential for success in many college courses and most professions. These courses lay the foundation for the university's Writing Across the Curriculum (WAC) course requirements. Students should, therefore, enroll in ENG 101 as soon as possible in their college careers. Students taking First-Year Writing courses at Cleveland State must earn a C or better in both ENG 101 and 102 (or its equivalent) in order to graduate.

Placement Testing: Before enrolling in ENG 101, all students, including transfer students who have not taken Freshman English, must complete the placement process. Placement is done through ACT/SAT scores. Students who are not ready for ENG 101 may be placed in ENG 099 or 100.

Placement for international students or students without ACT/SAT scores: International students should take the English Placement Exam. If they do not place into ENG 101, they should register for ESL 096, which will prepare them for the First-Year Writing series.

ENG 101-102 as Matriculation Requirements: All students, in order to graduate from Cleveland State University, must complete the First-Year Writing requirement within the first 30 hours of academic work at the university by passing ENG 101 and ENG 102 (or equivalent course) with grades of C or better. Students who have not completed ENG 102 (or equivalent course) within their first 30 hours may not register for any further courses without registering for the appropriate writing course.

Contact information :
For First-Year Writing: Jane Dugan, 216-687-2532 or William Breeze, 216-523-7145.

Courses

ENG 099: Introduction to College Writing (1-1-2). Prerequisite: Placement by ACT/SAT scores or English Placement Exam. This course is a workshop course designed to provide individualized instruction for students working below the English 100 level by helping them become more confident and skillful college writers. Students who complete ENG 099 with a grade of "C" or better are eligible to enroll in ENG 100. Credits earned in ENG 099 do not count toward graduation.

ENG 100: Intensive College Writing I (4-1-3). Prerequisite: Placement by ACT/SAT scores or English Placement Exam, or completion of ENG 099. This course provides students with intensive writing instruction in the basic skills of expository and argumentative writing. Supplemental instruction is provided in the form of a tutorial component. Each Fall and Spring semester, a special section of ENG 100 is offered for students whose native language is not English. ENG 100 and ENG 101 cannot both be counted toward fulfillment of the first-year writing requirement. Note: students who earn an A in ENG 100 or ENG 101 may take ENG 240 or ENG 241 in lieu of ENG 102. Students who exercise this option may count the credits earned in the alternative course toward fulfillment of the First-Year Writing requirement and the Writing Across the Curriculum requirement. ENG 100 requires class contact time of 4 credit hours and will be both applied towards financial aid and term billing as 4 credits. Only 3 credit hours count toward graduation requirements and will appear on a student schedule. The course requires a fee for supplemental writing center tutoring.

ENG 101: College Writing I (3-0-3) Prerequisite: Placement by ACT/SAT scores or English Placement Exam. This course instructs students in the basic skills of expository and argumentative writing. Each Fall and Spring semester, a special section of ENG 101 is offered for students whose native language is not English. ENG 101 and ENG 100 cannot both be counted toward fulfillment of the first-year writing requirement. Supplemental instruction is available for this course by taking ENG 105. Note: students who earn an A in ENG 100 or ENG 101 may take ENG 240 or ENG 241 in lieu of ENG 102. Students who exercise this option may count the credits earned in the alternative course toward fulfillment of the First-Year Writing requirement and the Writing Across the Curriculum requirement.

ENG 102: College Writing II (3-0-3). Prerequisite: Placement by ACT/SAT scores or English Placement Exam, or completion of ENG 100 or ENG 101. ENG 102 continues to cultivate and hone the skills acquired in ENG 100 or ENG 101, but also incorporates research and information literacy skills. Each Fall and Spring semester, a special section of ENG 102 is offered for students whose native language is not English. Supplemental instruction is available for this course by taking ENG 106. Note: students who earn an A in ENG 100 or ENG 101 may take ENG 240 or ENG 241 in lieu of ENG 102. Students who exercise this option may count the credits earned in the alternative course toward fulfillment of the First-Year Writing requirement and the Writing Across the Curriculum requirement.

ENG 102H Honors College Writing II (3-0-3). Prerequisite: Honors standing or permission of university Honors Program. An advanced introduction to academic research and writing through intensive investigation of an issue or topic specified by the instructor. Students will be required to develop and organize a substantial research project related to the topic of the course and to demonstrate the information literacy skills required to find, evaluate and make appropriate use of primary and secondary materials relevant to their project.

ENG 105 Writing Center I (2 credits). Workshops and tutorials to assist students taking ENG 100, ENG 101 or 102; also available to students for help with writing assignments in other courses. Pass/fail grading system.

ENG 106 Writing Center II (2 credits). Prerequisite: ENG 105. Workshops and tutorials on writing, with topics based on the particular writing problems experienced by students. Pass/fail grading system.

Note: Students may earn no more than 4 credit hours for Writing Center courses.

English as a Second Language Courses

(See ESL Courses page and contact the Division of Continuing Education for further information at 216-687-4850.)

Sophomore-Level Courses

Completion of ENG 101 and 102 is a prerequisite for all courses numbered ENG 201 and above.

ENG 201 Intermediate Expository Writing (4-0-4). Practice in reading and writing non-fiction essays, with attention to audience, purpose, voice, tone, style, development, organization, and research. Students who need extra help with writing may be required to take ENG 106 Writing Center concurrently with ENG 201.

ENG 203 Creative Writing: Forms and Techniques (4-0-4), This course is a reading and "workshop" introduction to the fundamental working modes (poetry, fiction, drama, and creative non-fiction) of creative writing, based in a broad survey of literary approaches and viewed from the standpoint of the writer.

ENG 204 Nonwestern Literature (4-0-4). Significant literary works representing cultures of Africa, Asia, Latin America, and the Caribbean. Includes such authors as Basho, Mo Yan, Mishima, Yosano, Ruben Dario, Borges, Garcia Marquez, Vargas Illosa, the griot Kouyate, Maran, Achebe, and Soyinka. Cross-listed with MLA 204.

ENG 206 Literature and American Culture (4-0-4). Selected works of American literature illustrating American myths central to our culture's self-conception. Includes such writers as Franklin, Thoreau, Twain, Hemingway, Ellison, and Arthur Miller.

ENG 207 African American Literature (4-0-4). Introduction to the tradition of African-American literature and its underlying historical experiences, cultural values, and modes of literary expression.

ENG 207H African American Literature: The City (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course will examine the Black urban experience in texts by African American authors writing over the course of the 20th Century. Our scope of consideration will include migration to northern cities at the end of the Civil War, the Black Migration during the First World War and patterns of racial development, as well as racial discrimination in the Black urban community. Literary interpretation will focus on ways in which the Black community reacted to and circumvented racist legislation in urban planning and landscape. Students will learn to consider the literature within a socio-historical context. Our approach to examining literature will be interdisciplinary and literary texts will be presented in chronological order, with attention to identifying and analyzing connections between historic and contemporary issues facing urban environments.

ENG 208 Womanism/Feminism (4-0-4). Literature reflecting the women's movement in America. Initial focus examines 19th-century bi-racial origins and ideologies to establish definitions of womanism as distinct from feminism and to frame readings of women's movements across ethnic and cultural communities in America over the 20th century.

ENG 210 Native American Literature (4-0-4). Introduction to literature by Native Americans, with emphasis on their cultural diversity and their struggle for national survival and identity.

ENG 240 Introduction to Poetry (4-0-4). The study of poetry written in English, with emphasis on its forms and distinctive characteristics. Students will develop their ability to analyze literary texts and to write persuasive essays about them. Particular attention will be paid to understanding some principal genres of poetry. The course will include poets, both women and men, from several different historical periods in which English verse has been composed, and poets from the diverse national/ethnic groups who have written in English. To place English poetry in the context of world literature, some poems composed in other languages will be read in translation. This course introduces English majors to research and critical techniques needed for the baccalaureate study of literature. Students must receive a C or better in this course for it to count towards the major. Alternate for ENG 102 with approval.

ENG 240H Introduction to Poetry - Honors (4-0-4). Prerequisites: Honors standing or permission of University Honors Program. Successful completion of ENG 101 and ENG 102 or ENG102H is required for eligibility. ENG 240H is an Honors version of the standard ENG 240 (Introduction to Poetry). It aims to equip students with the critical vocabularies and techniques necessary to effectively analyze, discuss, and write about poetry. ENG 240H students gain new insights into the ways in which poems function by attending to the formal elements of poetry and discovering how poetic form relates to meaning. The class considers a variety of poetic traditions and explores how particular genres or forms have been reinvented within and across various literary cultures. Students must receive a C or better in this course for it to count towards the major.

ENG 241 Introduction to Fiction and Drama (4-0-4). An introduction to analyzing and writing about literature, focusing on the genres of fiction and drama. Students will learn techniques for reading analytically and critically and for writing critical/research papers on fiction and drama. The course will examine the generic characteristics of a variety of types of fiction and drama, including works written in English by men and women from diverse ethnic/cultural groups and some translated works illustrating various national traditions. Students must receive a C or better in this course for it to count towards the major. Alternate for ENG 102 with approval.

ENG 241H Writing about Literature: Fiction and Drama - Honors (4-0-4). Prerequisites: Honors standing or permission of university Honors Program. Successful completion of ENG 101 and ENG 102 or ENG 102H is required for eligibility. This course teaches students how to analyze, discuss and write critically about fiction and drama at a level appropriate for honors level English majors. While all sections of ENG 241 teach students the skills of critical thinking and writing about literature, this honors course will also help students understand the histories and ideologies behind the types of analyses they are learning to perform on literature. Students will engage with critical sources at a sophisticated level, in preparation for their senior honors project. . Students must receive a C or better in this course for it to count towards the major.

ENG Multicultural Literatures of the United States 248 (4-0-4).. An introduction to the literatures (in English or in translation) of one or more minority groups, defined by race, ethnicity, gender, sexual orientation, and/or physical condition; such as Native Americans, Hispanic Americans, Asian-Americans, women, persons who are LGBTQ (Lesbian, Gay, Bisexual, Transgendered, and Questioning), and/or persons with disabilities. Topics, texts, and approaches will vary.

ENG 271 Shakespeare and Film (4-0-4). Essential plays of Shakespeare studied and viewed in performance on videotape.

ENG 280 Classical Literature in Translation (4-0-4). Readings from the literature of classical Greece and Roam, with emphasis on critical analysis and writing about texts in the context of ancient and modern debates about their meaning. Readings include at least one of the three major epics: the *Iliad*, the *Odyssey*, or Virgil's *Aeneid.*

Upper-Division Courses

English majors are advised to take ENG 240 and 241 before taking courses numbered ENG 330 and above. Equivalency rule for transfer students: one 200-level literature course, or permission of the instructor, is prerequisite for literature courses numbered ENG 300 and above. This prerequisite does not apply to linguistics courses (ENG 310-318).

Courses on Writing and Composition Theory

ENG 301 Advanced Expository Writing (4-0-4). Discussion and practice of writing in nonfiction genres such as the essay, technical writing, and journalism.

ENG 302 Rhetoric of the Law (4-0-4). Analysis of strategies used in a variety of legal contexts such as closing arguments in criminal trials or arguments before the Supreme Court.

ENG 303 Creative Writing (4-0-4). Techniques of nonexpository writing, applicable to poetry, fiction, drama, and creative non-fiction. Non-majors are advised to take the course on a pass/fail basis.

ENG 304 Creative Writing for Teachers (4-0-4). Poetry, fiction, and/or drama-writing with emphasis on teaching creative writing in the schools.

ENG 305 Creative Writing Workshop (4-0-4). Prerequisite: ENG 303 or ENG 304 or permission of instructor. Craft course in poetry, fiction, playwriting, or a specialized creative writing topic. May be taken up to three times with change of topic.

ENG 307 Style (4-0-4). Experiments with the effects of diction, syntax, punctuation, and other linguistic tools in the creation of meaning, using the student's own writing.

ENG 308 Composition Theory for Teachers (4-0-4). To prepare teachers to effectively integrate writing instruction in the secondary language arts curriculum, this course provides information about current beliefs and best practices that characterize what top teachers do.

ENG 309 Writing Center Practicum (1-4-2). Prerequisite: Permission of instructor based on evaluation of a writing sample. Composition and tutoring theory integrated with practical experience in the teaching of writing. May be repeated for up to 4 credits. Counts toward the secondary English certification requirement in advanced composition.

Linguistics Courses

ENG 310 Traditional Grammar (4-0-4). Survey of traditional grammar, its history and present use in the schools. Cross-listed with LIN 310.

ENG 311 Elements of Linguistics (4-0-4). Survey of phonology, morphology, syntax, historical linguistics, semantics, pragmatics, and psycholinguistics with reference to modern English. Cross-listed with LIN 311.

ENG 313 Studies in Linguistics (4-0-4). Core course in a mainstream linguistic topic, such as American English dialects, historical linguistics, morphology, history of the English language, modern English grammar, semantics, or sociolinguistics. May be taken up to three times with change of topic.

ENG 314 Applied Linguistics (4-0-4). Course in the professional application of linguistics, such as Language Diversity and Teaching English, Lexicography, or English as a Second Language. May be taken up to three times with change of topic. Cross-listed with LIN 314.

ENG 315 Introduction to the English Language (4-0-4). An overview of the main components of a linguistic description of English and of the history of the language with an introduction to some relevant areas of applied linguistics: language acquisition; regional and social dialects; socio-linguistics; and pragmatics. Cross-listed with LIN 315.

ENG 318 Language Analysis (2 or 4 credits). Prerequisite: ENG/LIN/MLA/ANT 260 or ENG 311 or a strong background in a foreign language. Topics may include Sanskrit, Hittite, Classical Armenian, Old English, Old Norse, or Gothic, studied with an emphasis on grammar and linguistic issues. May be repeated as the continuing study of one language, or with a change of topic. A two-semester sequence of one language (such as Sanskrit I and II), or a semester of Old English followed by a semester of Old Norse or Gothic, may satisfy the foreign language requirement. Students who take Sanskrit I and II (4 credits each) may take second year Sanskrit III and IV (2 credits each). Cross-listed with LIN 318.

Literature Courses

ENG 320 Classical Literature in Translation (4-0-4). Survey of major literature of ancient Greece and Rome, including the Iliad, the Odyssey, Vergil's Aeneid, and other significant works by classical authors.

ENG 321 British Literature I (4-0-4). Survey of British literature from its Anglo-Saxon beginnings to 1789.

ENG 322 British Literature II (4-0-4). Survey of British literature from 1789 to the present.

ENG 330 Studies in Ancient Literature (4-0-4). Study of a single aspect of ancient Greek, Roman, or other classical literature, such as Greek tragedy, feminist approaches to the classics, oral poetics, a writer, genre, theme or period. May be taken up to three times with change of topic.

ENG 331 Studies in Medieval Literature (4-0-4). Topics include Arthurian tradition, Dante, Malory, women and writing, and other medieval themes and genres. May be taken up to three times with change of topic.

ENG 332 Studies in Renaissance Literature (4-0-4). 16th- and 17th-century authors, genres, themes, or movements, including humanism, the Reformation, metaphysical and cavalier poetry, and scientific empiricism. May be taken up to three times with change of topic.

ENG 333 Studies in Restoration and 18th-Century British Literature (4-0-4). Authors, genres, themes, or movements in 18th-century poetry, fiction, and drama. Possible topics include the Enlightenment, satire, the rise of the novel, and neoclassical and pre-Romantic poetry. May be taken up to three times with change of topic.

ENG 334 Studies in 19th-Century British Literature (4-0-4). Authors, genres, themes, or movements in 19th-century poetry, fiction, and drama. Possible topics include Romantic-era women writers, the literature of British imperialism, and the fiction of Jane Austen. May be taken up to three times with change of topic.

ENG 335 Studies in 20th-Century British and Anglophone Literature (4-0-4). Modern and contemporary British and Anglophone authors, genres, themes or movements. May be taken up to three times with change of topic.

ENG 336 Studies in Non-Western Literature (4-0-4). Reading and analysis of literary texts from non-Western cultures. Possible topics include: Non-Western Epic; Native American Literature; Contemporary Non-Western Fiction. English majors enrolled in the Multicultural/Multiethnic concentration may take the course up to three times with change of topic as multicultural electives.

ENG 342 Survey of American Literature (4-0-4). American literature from the 17th century to modern times, intended to provide a sense of historical movements -- colonialism, federalism, romanticism, realism, modernism.

ENG 345 Studies in American Literature (4-0-4). Authors, genres, themes, or movements of significance in American literature. May be taken up to three times with change of topic.

ENG 346 Studies in American Fiction (4-0-4). Studies in the American short story and/or novel focusing on a specific author, theme, movement, period, or subgenre. May be taken up to three times with change of topic.

ENG 347 Studies in African-American Literature (4-0-4). Authors, themes, or movements of significance in African-American literature. Topics include slave narratives, Harlem Renaissance, literature of the 1950s, African-American women authors. May be taken up to three times with change of topic.

ENG 348 Studies in Multicultural Literature (4-0-4). Authors, genres, themes, or movements representing the ethnic diversity of modern American or world literature. May be taken up to three times with change of topic.

ENG 350 Studies in Fiction (4-0-4). Authors, themes, or movements significant in British, American, European, or world fiction. May be taken up to three times with change of topic.

ENG 351 Studies in Drama (4-0-4). Authors, themes, or movements significant in British, American, European, or world drama. May be taken up to three times with change of topic.

ENG 352 Studies in Poetry (4-0-4). Authors, themes, or movements significant in British, American, European, or world poetry. May be taken up to three times with change of topic.

ENG 355 Major Themes or Genres (4-0-4). Themes or genres significant in British, American, European, or world literature. Topics in the past have included European Romanticism, and multicultural literature and pedagogy. May be taken up to three times with change of topic.

ENG 360 Studies in Literary Criticism (4-0-4). Study of milestones in criticism by Aristotle, Sidney, Johnson, Wordsworth, and Arnold, and/or of modern and contemporary critical movements such as new criticism, structuralism, deconstruction, feminist criticism, and post-structuralism. May be taken up to three times with change of topic.

ENG 361 Classical Rhetoric (4-0-4). Tradition of rhetoric established in ancient Greece and Rome and its continuing influence on literature and composition.

ENG 363 Gender Issues in Literature (4-0-4). Studies in gender theory and gender issues in literature. Topics may include contemporary feminist themes, writings of women of a particular ethnicity such as Asian-American or Latina; the intersection of gender, race, and class; the relationship of gender to voice, technique and genre; archetypes and how questions of language are linked to these issues. May be taken up to three times with change of topic.

ENG 364 Popular Culture (4-0-4). Critical methodology and study of genres in such areas as science fiction, the western, gothic romance, comparative studies in literature and film, or mass media aesthetics. May be taken up to three times with change of topic.

ENG 370 Chaucer (4-0-4). Study of Chaucer's Canterbury Tales and other works.

ENG 371 Shakespeare I (4-0-4). Study of Shakespeare's comedies and romances.

ENG 372 Shakespeare II (4-0-4). Study of Shakespeare's tragedies and history plays.

ENG 374 Milton (4-0-4). Study of Paradise Lost, Paradise Regained, Samson Agonistes and other works of Milton.

ENG 375 Major Author (4-0-4). Intensive study of a major author writing in English. May be taken up to three times with change of topic.

ENG 380 Imagination Conference (4-0-4). Prerequisite: Permission of instructor, based upon manuscript submission. Intensive five-day summer workshop with visiting writers (fiction, poetry, and creative non-fiction); "craft" analyses of creative writing. Students complete a manuscript at the beginning of summer semester and present the manuscript in revised form at the end of the summer semester. In addition to tuition, students will be charged a Workshop and Materials Fee. Contact Imagination Conference website. http://www.csuohio.edu/class/imagination/.

ENG 382 Canonicity (4-0-4). The word “canon” refers to an authoritative and universally recognized body of texts. This course is devoted to examining the history, concept and legitimacy of the canon in English literature.

ENG 390 Literary Magazine (1 or 2 credits). Prerequisite: Approval of faculty adviser to the literary magazine. Practicum in professional editing, writing and administration of a literary magazine. Graded S/U only; **does not count toward the major**. Current options are editorial work on the Whiskey Island magazine, or work in the preparation of reviews of poetry books for the Burning Press. May be repeated for up to four credits.

ENG 391 Fiction Workshop (4-0-4). Prerequisite: ENG 203 or 303 or permission of instructor. Craft course in the writing of fiction. May be taken up to three times. May count toward the English major or creative writing concentration only twice.

ENG 392 Creative Non-Fiction Workshop (4-0-4). Prerequisite: ENG 203 or 303 or permission of instructor. Craft course in the writing of creative non-fiction. May be taken up to three times. May count toward the English major or creative writing concentration only twice.

ENG 393 Playwriting Workshop (4-0-4). Prerequisite: ENG 203 or 303 or permission of instructor. Craft course in the writing of playscripts. May be taken up to three times. May count toward the English major or creative writing concentration only twice.

ENG 394 Poetry Workshop (4-0-4). Prerequisite: ENG 203 or 303 or permission of instructor.Craft course in the writing of poetry. May be taken up to three times. May count toward the English major or creative writing concentration only twice.

ENG 396 Independent Study (1 to 4 credits). Prerequisites: Written permission of the instructor and prior approval by the Committee on Instruction in the English Department at least two weeks prior to the term in which the independent study would begin. Intensive study of a specialized topic growing out of 300-level English course work. Students may count up to four independent study credits toward the major. A student must be in good academic standing to qualify for an independent study. Independent studies cannot be given as substitutes for courses that normally are offered in the curriculum. Contact the English Department for further information.

ENG 397 Portfolio Preparation (1 credit). Prerequisites: The student must be enrolled in the Writing Certificate Program and must have earned at least 12 credits toward the Writing Certificate, or, alternatively, must obtain permission from the instructor. Individual or group instruction in the preparation of a professional writing portfolio. Emphasis is on revision of writing projects, and preparation and presentation of texts. Graded S/U only; does not count toward the English major or minor. Offered each semester in the Writing Center.

ENG 490 Professional Internship (1 or 2 credits). Prerequisites: Permission of the faculty anchor and field supervisor. Internships are available through Career Services. Professional writing interns must have completed all university writing requirements.

ENG 495 Senior Seminar (4-0-4). Prerequisite: English major with senior standing or permission of instructor. Literature studied in the context of significant theoretical questions: an author, genre, or theme considered from a variety of critical perspectives. The seminar may be repeated with change of topic.

ENG 496H – Honors Research Project. 4 credits. Prerequisites: Student must be an honors student (or, with special permission from the English department, a scholars student) and must obtain written permission of the instructor and written prior approval of the project by the Committee on Instruction in the English Department at least two weeks prior to the term in which the research project would begin. Intensive independent research project on a specialized topic growing out of a 300-level English course work. The student and professor must meet for the equivalent of at least one hour per week, and the student must produce a significant final written product: in literary analysis, a research paper of 20 to 25 pages; in creative writing, a minimum of 20 pages of poetry, a complete play, or 30 pages of fiction or creative non-fiction.. This course is required of all honors English majors. This project cannot be given as a substitute for courses that normally are offered in the curriculum.

English as a Second Language Courses

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- Course Descriptions
- To Continuing Education/ESL
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Faculty

Program Director: Michele S. Bowman (e-mail: m.s.bowman@csuohio.edu).

Course Descriptions

Note: ESL 095-098 do not count toward graduation.

ESL 095 Intermediate ESL (4-0-4). No prerequisites; placement by ESL Program Director recommended. An integrated skills approach to communicative competence in academic English as a Second Language. The course focuses on writing skills: summarizing and short essay writing with an emphasis on grammar and vocabulary building, but also includes academic listening comprehension and oral reporting. It is offered as needed based on enrollment. The class is graded S/U.

ESL 096 Advanced ESL (4-0-4). No prerequisites; placement by ESL Program Director recommended. An integrated skills approach to communicative competence in academic English as a Second Language; the course focuses on advanced college-level writing with an emphasis on grammar and vocabulary building. Advanced academic listening comprehension and speaking are practiced through classroom discussion. It is generally offered each Spring and Fall semester. The class is graded S/U.

ESL 098: ESL Pronunciation (3-0-3) No prerequisites; placement by ESL Program Director recommended. Non-degree seeking students may also enroll. The course focuses on pronunciation of distinct sounds, intonation, rhythm and stress patterns in the English language. It will also address issues of discourse management. Activities will put pronunciation and discourse practice into everyday and academic task context. Homework will be assigned individually based on needs analysis. It is usually offered each Fall semester. The class is graded S/U.

English Translations of Foreign Literatures Courses

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Faculty

Link to Profiles of Full-time Modern Languages Faculty

Course Descriptions

The following courses offer foreign literatures in English translation designed for non-language majors. These courses require no knowledge of any foreign language.

A student can remove a foreign language deficiency by taking any course with the ENF rubric and the American Sign Language sequence (SPH 251 American Sign Language I; SPH 252 American Sign Language II).

ENF 212 Western Literature in English Translation (3-0-3). This course covers works representing many eras, Western cultures, and genres, and readings, written work, lectures and discussions in English. Topics are announced in semester course schedules. It may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 213 Western Literature in English Translation (Writing) (3-0-3). This course covers works representing many eras, Western cultures, and genres; readings, written work, lectures and discussions in English. Topics are announced in semester course schedules. It may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 214 Women Writers in English Translation (3-0-3). This course includes a selection of works by women writers representing different genres from one or more cultures and eras. The readings, written work, lectures and discussions are all in English. Topics are announced in semester course schedules and may be thematic, comparative, or representative of one cultural tradition. It may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 215 Women Writers in English Translation (Writing) (3-0-3). This course includes a selection of works by women writers representing different genres from one or more cultures and eras. The readings, written work, lectures and discussions are all in English. Topics are announced in semester course schedules and may be thematic, comparative, or representative of one cultural tradition. The course may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 216 Foreign Film (3-0-3). This course involves the study of foreign films, their contexts and related readings. The readings, written work, lectures, and discussions are all in English. Topics are announced in semester course schedules and may be thematic, comparative, or representative of one era or culture. The course may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 217 Foreign Film (Writing) (3-0-3). This course involves the study of foreign films, their contexts and related readings; readings, written work, lectures and discussions in English. Topics are announced in semester course schedules and may be thematic, comparative, or representative of one era or culture. The course may be repeated for credit with a change of topic. It may be taken by Foreign Language majors as elective only.

ENF 310 The Post-colonial Self in Search of Identity (4-0-4). This course covers works representing pre- and post-colonial Non-Western cultures as well as theoretical treatments of the post-colonial condition. The readings, written work, lecture and discussions are all in English. The course may be repeated for credit with a change of topic.

ENF 311 Studies in Non-Western Literature (4-0-4). This course involves reading and analysis of literary texts from non-Western cultures. Possible topics include: non-Western epic; Native American literature; and contemporary non-Western fiction.

ENF 312 Western Literature in English Translation (4-0-4). This course covers works representing many eras, Western cultures, and genres. The reading, written work, lecture, and discussions are all in English. Topics are announced in semester course schedules and include themes such as "Short European Fiction" and "European Romanticism." It may be cross-listed with English. It may be repeated for credit with a change of topic. Foreign Language majors may take it as elective only.

ENF 313 Western Literature in English Translation (Writing) (4-0-4). This course covers works representing many eras, Western cultures, and genres. The reading, written work, lecture, and discussions are all in English. Topics are announced in semester course schedules and include themes such as "Short European Fiction" and "European Romanticism." It may be cross-listed with English. It may be repeated for credit with a change of topic. Foreign Language majors may take it as elective only.

Environmental Science Courses

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Faculty

Environmental Science is part of the Department of Biological, Geological, and Environmental Sciences.

Professors: Abbed Babaei, Pete Clapham, F. Paul Doerder; **Associate Professors:** A. Ralph Gibson, Robert A. Krebs, B. Michael Walton, Julie A. Wolin; **Assistant Professor:** Fasong Yuan; **Adjunct Faculty:** Rebecca Drenovsky, John Carroll University; Jeffrey P. Johansen, John Carroll University; Cathi Lehn, Cleveland Botanical Garden; Daniel R. Petit, National Fish & Wildlife Foundation; Terry Robinson, Cleveland MetroParks.

Other University Departments involved in Cleveland State University's Environmental Academic Studies Program:
Chemistry, Civil and Environmental Engineering, Urban Studies

Course Descriptions

EVS 206 Introduction to Environmental Science (4-0-4). An introduction to the interlinkages of nature, with substantive materials from geology, biology, chemistry, physics, economics, anthropology, political sciences and many other areas. The role of humans as destroyers and conservationists in nature will be studied. Natural- and human-caused hazards and prevention will be investigated.

EVS 300 Physical Features of Ecosystems (3-0-3). Prerequisite: EVS 206 or GEO 230. Corequisite: EVS 301. Overview of the dynamics of the abiotic factors contributing to ecosystem structure and function. The course will include water resources and flood hazards, environmental hazards, soils, and waste management. It will deal both with natural factors and environments that have been affected by human intervention, as well as conservation of the resources on which society depends.

EVS 301 Physical Features of Ecosystems Laboratory (0-2-1). Corequisite: EVS 300. Selected exercises designed to reinforce concepts covered in EVS 300, including experiments, exercises, and field trips to introduce students to hands-on observation of significant environmental issues. The course has four required half-day field trips and one required full-day field trip.

EVS 302 Biological Features of Ecosystems (3-0-3). Prerequisite: EVS 206 or permission of instructor. Corequisite: EVS 303. An introduction to biological features and resources of ecosystems, and their conservation and management.

EVS 303 Biological Features of Ecosystems Laboratory (0-2-1). Corequisite: EVS 302. Selected exercises designed to reinforce concepts covered in EVS 302.

EVS 380 Earth System Science for Middle School Teachers (3-4-5). Prerequisite: GEO 100/101 or permission of the instructor. Enrollment is restricted to students seeking middle school licensure. No credit towards geology or environmental science major or minor. Concepts of earth system science relevant to students seeking middle school licensure will be discussed and related to timely issues. Lectures will coordinate with laboratory exercises and inquiry-based activities.

EVS 390 Writing in Environmental Science I (2-0-2). Prerequisite: a declared environmental science major and permission of the BGES Environmental Science Adviser. Corequisite: Students must be concurrently enrolled in a 300- or 400-level environmental science course. This course is designed to develop the writing and oral presentation skills of students through assigned projects and in-class activities. Students will write conceptual (review or theoretical) papers according to a standard format. A substantial written report is one of the requirements. The 300/400 level Environmental Science course instructor, in consultation with the student, will determine the topic of the written report.

EVS 450 Applied Ecology (3-0-3). Prerequisite: BIO 300 or BIO 302 or BIO 304 or permission of instructor. Our lives have been increasingly touched by questions pertaining to environmental degradation at local, regional, and global scales. Students will examine ways in which ecological principles can be applied to solving some of these crucial environmental problems. Topics include global climate change, sustainability, agroforestry, biodiversity and conservation, invasive species, ecotoxicology, biomonitoring and bioremediation, and restoration ecology.

EVS 454 Conservation Biology (3-0-3). Prerequisite: BIO 304. This course will examine the causes and scientific responses to the current worldwide crisis of declining biodiversity. Scientific principles underlying conservation biology are emphasized, but students also will explore the role that culture, societal values, politics, and economics play in conservation issues.

EVS 455 Conservation Biology Laboratory (0-4-2). Prerequisite: BIO 304. Examination of central principles of conservation biology through field studies and computerized analyses of data for actual endangered and threatened species. This laboratory course provides students with experience in quantification and analysis of biodiversity, environmental monitoring, mathematical modeling, risk assessment, and other methods used in conservation biology, ecology, and natural resource management.

EVS 470 Aquatic Ecosystems (3-0-3). Prerequisites: BIO 200, BIO 202, and CHM 261 or equivalent. Corequisite: EVS 471. A study of aquatic ecosystems, including lakes, streams, rivers, and wetlands. Commonalities and differences between the physical-chemical and biological components of these ecosystems will be discussed. The impacts of human activities on these ecosystems are covered, as well as water quality assessment techniques, pollution control, and regulation. This course includes three required Saturday field trips.

EVS 471 Aquatic Ecosystems Laboratory (0-2-1). Prerequisites: BIO 200, BIO 202, and CHM 261. Corequisite: EVS 470. Selected exercises to introduce students to hands-on sampling and analytical techniques used in water quality assessment. This course includes three required Saturday field trips, each equivalent to two classroom laboratory periods.

EVS 472 Introduction to Watersheds of Northeast Ohio (2-0-2). Prerequisite: GEO 323 or permission of instructor. Corequisite: EVS 473. Introduction to the study of watersheds.

EVS 473 Introduction to Watersheds of Northeast Ohio Laboratory (0-4-2). Corequisite: EVS 472. Students will examine chemical, biological, and habitat aspects of area streams; study the watersheds of those streams; and carry out limited watershed-modeling exercises designed to help understand the dynamics of watersheds and the streams that drain them.

EVS 490 Internship in Environmental Science (0-8-4). Prerequisite: Permission of instructor. Independent study related to work experience for majors in Environmental Science.

EVS 494 Special Topics in Environmental Science (1 to 6 credits). Prerequisite: at least a junior standing. Study of a particular topic in environmental science. Topics to be announced in semester course schedule. May be repeated for credit with a change of topic up to 12 credits.

EVS 496 Independent Study in Environmental Science (1 to 6 credits). Prerequisite: Permission of instructor and BGES undergraduate environmental science advisor. Independent study of material of special or timely interest which is not likely to be appropriate for, or covered in, regular course offerings. Must be at least 4 credits to satisfy the B.S. capstone requirement. May be repeated for credit with change in topic.

EVS 497 Research in Environmental Science (1 to 6 credits). Prerequisite: Permission of instructor and BGES undergraduate environmental science advisor. Undergraduate research carried out by special arrangement. The student may work independently or as an assistant to a faculty investigator. Must be at least 4 credits to satisfy the B.S. capstone requirement.

EVS 499 Exit Evaluation (0-1-0). Prerequisite: Senior standing. Final exit examination and outcomes assessment evaluation required of all graduating seniors. Graded S/U.

Environmental Studies Courses

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Faculty

Link to Profiles of Full-time Urban Studies Department Faculty

Professors: William Bowen , Miron Kaufman, Sanda Kaufman (Director, M.A. in Environmental Studies Program), W. Dennis Keating (Director, MUPDD Program), Wendy Kellogg (Associate Dean and Department Chair), Robert A. Simons, Michael Spicer, Roberta Steinbacher (Director, Undergraduate Programs); **Associate Professors:** Nancy Meyer-Emerick, Brian A. Mikelbank; **Assistant Professors:** Benjamin Clark, Sung-Gheel Jang, Stephanie Ryberg, Nicholas Zingale

Course Descriptions

ENV 259 Natural History of the Cleveland Area (2-6-4). General geology, ecology, flora, and fauna of the Cleveland area; field trips to parks and museums to study local rock formation, Forest types, and plant and animal identification. Designed primarily for nonscience majors. Cross-listed with UST 259.

ENV 435 Environmental Policy and Administration (4-0-4). Administration of the organizations charged with responding to environmental regulations and/or crises; decision- and policy-making processes within and around these organizations, especially as they are related to conflicting interests and values. Cross-listed with UST 435.

ENV 436 Urban Sustainability (4-0-4). Presents the values, trends and methods of planning for environmentally sustainable cities and regions. Focuses on urban sustainability and built form, including buildings, designed green spaces, urban water systems, energy and economic change. Students become familiar with processes that generate the physical landscape and the impacts of human settlements on natural landscapes. Local, state, and federal laws and regulations relevant to land use and resource protection are featured. Students become familiar with planning methods and their use. Cross-listed with UST 436.

ENV 440 Environment and Human Affairs (4-0-4). Challenges to decision-makers in environmental policy-making; strategies appropriate to various decision situations, analysis of decision-making, negotiation and mediation techniques. Cross-listed with UST 440.

ENV 441 Environmental Planning (4-0-4). Exploration of principles and processes of environmental planning focusing on urban and regional levels; presentation of frameworks and techniques in areas such as site plan review, urban design, urban environmental restoration, open space and habitat preservation, water quality, bioregionalism, and growth management. Cross-listed with UST 441.

ENV 442 Environmental Finance and Capital Budgeting (4-0-4). Introduces students to natural resource economics theory, financial decision-making processes, and public policy relevant to environmental protection, urban sustainability, and natural resource development and management; examination of public goods and pricing theory, public sector involvement, regulation, market solutions, capital planning, and budgeting for environmental infrastructure. Cross-listed with UST 442.

ENV 443 Environmental Regulatory Compliance (4-0-4). Examination of occupational safety and health requirements placed on industry and urban institutions; utilizes training modules that meet federal standards and guidelines.

ENV 489 Advanced Senior Seminar (4-0-4). Prerequisite: Senior standing or permission of instructor. Capstone course coordinating knowledge and skills gained through fulfillment of the requirements for a major in Environmental Studies. Cross-listed with UST 489.

ENV 490 Environmental Internship (2 to 12 credit hours). Prerequisite: Permission of instructor. Work experience in environmental agencies for Environmental Studies majors.

ENV 493 Special Topics in Environmental Studies (1 to 4 credit hours). Special offerings varying with faculty expertise. A typical subject is Energy Policy.

ENV 496 Environmental Research (2 to 8 credit hours). Prerequisite: Permission of instructor. Independent research for Environmental Studies majors.

Finance Courses

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Faculty

Link to Department Personnel
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Professors: Chenchuramaiah T. Bathala, Chair, Ravindra, R. Kamath, Alan K. Reichert; **Associate Professors:** Kenneth A. Borokhovich, F.C. Neil Myer; **Associate Professors Emeriti:** John A. Domonkos, Charles T. Rini, Jandhyala L. Sharma; **Assistant Professors:** Dalia Marciukaityte, Haigang Zhou; **Term Instructors:** Russell T. Raimer.

Course Descriptions

Note for courses noted "Formerly": the newer course numbers were effective as of Spring 2007.

FIN 201 Personal Financial Planning (3-0-3). Introduction to concepts in finance (risk, return, liquidity, horizon, inflation, and taxation) applied to personal financial planning; impact of career choice on discretionary income; basic financial planning; investing at low risk vs. aggressive investing; investing in real assets, commodities, and related topics. NOTE: B.B.A. students may take this course only as a free elective.

FIN 351 Introduction to Financial Management (4-0-4). Prerequisites: ACT 222, ECN 201, ECN 202. A study of the basic tools and concepts of financial management and their application to the areas of financial statement analysis, leverage, short-term and long-term financing, financial forecasting, time value of money, working capital management, investment banking, cost of capital, capital budgeting, capital structure, valuation, dividend policy, mergers and acquisitions, and multinational finance.

FIN 353 Introduction to Investments (4-0-4). Prerequisite: FIN 351. An introduction to the factors affecting changes in prices of securities and their relation to objectives of personal and institutional investors. The course introduces functions, operations, and workings of various securities markets, stock, bond, option and futures. It covers factors affecting the security prices, risk, and fundamental valuation principles of security prices. Its primary focus is on the understanding of the mechanics and terminology of various security markets, and the risk and fundamental valuation principles of security prices.

FIN 360 Financial Markets and Institutions (4-0-4). Prerequisite: FIN 351. An analysis of the financial instruments (including derivative securities) of both domestic and international institutions of the money and capital markets; plus the operations of financial intermediaries such as commercial banks, savings and loan associations, and insurance and investment companies.

FIN 454 Advanced Investments (4-0-4). Formerly FIN 354. Prerequisite: FIN 353. A more detailed consideration of factors studied in FIN 353, with particular emphasis on comprehensive industry analysis and common stocks, bonds, and options; portfolio theory and the portfolio management process. Course focuses upon detailed qualitative and fundamental valuation models for various financial securities; stocks, bonds, options and futures; and risk-return analysis. Emphasis is on institutional investors such as mutual funds and pension funds, and will include coverage of international investing.

FIN 461 Bank Management (4-0-4). Formerly FIN 361. Prerequisite: FIN 351. A study of management of bank funds and the organization and structure of the commercial banking industry. Topics include the management of liquidity, investments, loans, liabilities, and capital; the impact of bank regulatory agencies and the changes in money and capital

market conditions on the management of bank funds; evaluation of the performance of bank holding companies; and international banking.

FIN 465 International Finance and Investment (4-0-4). Formerly FIN 365. Prerequisite: FIN 351. A survey of international trade, foreign exchange markets, balance of payments, exchange rate determination, and official reserves; international corporate finance, capital budgeting, cash management, capital structure, cost of capital, transfer pricing, and tax management; accounting translation, hedging and international banking.

FIN 470 Introduction to Risk and Insurance (4-0-4). Formerly FIN 370. Prerequisite: FIN 351. An examination of risk, methods of handling risk, the insurance mechanism, characteristics of insurance, legal concepts underlying insurance contracts, risk management, captives, types of insurers, and insurance company operations. A variety of insurance products are covered, including homeowners' insurance, automobile insurance, umbrella coverage, title insurance, workers' compensation, life insurance, annuities, and health insurance. The emphasis of the course is on property and liability insurance.

FIN 471 Life and Health Insurance (4-0-4). Formerly FIN 371. Prerequisite: FIN 470. A study of principles and practices of providing personal and family security against the risks of death and ill health. The course also covers topics involving life insurance products, costs, pricing, settlement options, replacement, premium and costs computations, saving for retirement, annuity products and their costs, and social insurance.

FIN 473 CFA Level I Review (2 to 4 credits). Effective: Spring 2008. Prerequisite: FIN 353 and permission of instructor. Follows Chartered Financial Analyst Institute's curriculum in preparing students for the CFA Level I examination. Coverage includes the following: ethics and professional standards; quantitative methods: statistics and time value principles; economics: macro, micro, and global; accounting: financial statement analysis; corporate finance; investment/valuation tools: equity investments, debt investments, derivative & alternative investments; and portfolio management.

FIN 477 Real Estate Finance (4-0-4). Formerly FIN 377. Prerequisite: FIN 351. A discussion of major instruments of real estate financing, the mortgage market and key financial institutions, governmental involvement in mortgage markets, credit analysis, the methodologies for appraising residential properties, and other relevant topics. The course will emphasize the use of creative financing tools and their payment patterns by analyzing detailed examples. *Approved by the Ohio Association of Real Estate Boards Inc., as partial fulfillment of the Real Estate License requirements.

FIN 479 Real Estate Investment (4-0-4). Formerly FIN 379. Prerequisite: FIN 351. An analysis of factors which determine the investment returns and value of real estate vs. alternatives. The course introduces methodologies for appraising income-producing properties. Decision-making from the perspective of institutional, as well as individual investors, is examined. Estimation of risk and return is explored in an individual property and portfolio context.

FIN 480 Case Problems in Finance (4-0-4). Formerly FIN 380. Prerequisite: FIN 351. Case studies relating to long-term financing requirements, operating and financial leverage, dividend policy, cash budgeting, risk, working capital management, capital budgeting, cost of capital, management of earnings, valuation of the firm, and mergers and acquisitions.

FIN 484 Capital Budgeting Decisions (4-0-4). Formerly FIN 384. Prerequisite: FIN 351. A study of the theory and practice of capital budgeting in the global arena. Topics include capital budgeting techniques; and decisions involving replacement, make or buy, plant location, risk and uncertainty, lease evaluation, bond refunding, project abandonment, inflation, mergers and acquisitions, cost of capital, capital structure decisions, executive compensation, dividend policy and valuation.

FIN 490 Professional Internship (1 to 4 credits). Prerequisites: FIN 351, junior standing, permission of chairperson. Requires professional finance work experience in an organizational environment which extends the curriculum and provides meaningful experience related to the student's area of interest. Term report required.

FIN 493 Special Topics in Finance (1 to 4 credits): Practicum in Investment and Portfolio Management. Prerequisites: FIN 351, junior standing, permission of the instructor. (1-4 credits). Managing an investment portfolio of stocks, exchange traded funds (ETFs), and fixed income securities. Topics/responsibilities include investment research, security selection, teamwork, portfolio management, and performance evaluation.

FIN 493 Special Topics in Finance (1 to 4 credits). Prerequisite: FIN 351. A survey of topics of special interest to finance majors. Possible themes, topics, or issues include the following: working capital management, forecasting, practicum in investment management, options & futures, financial engineering, mergers and acquisitions, financial risk management, financial theory and other topics of a timely nature.

FIN 496 Independent Study (1 to 4 credits). Formerly FIN 491 Special Problems in Finance. Prerequisites: FIN 351 senior standing, approval of sponsoring faculty and department chairperson. A flexible content/structure course to enable qualified students to pursue independent study or field research in special areas of interest in finance under the supervision of a Finance faculty member. Requires faculty member approval and permission of department chair. Written proposal and final report required.

FIN 499 Honors Thesis in Finance (4 credits). Prerequisite: Restricted to senior finance honors students. Requires the honors student to conduct a piece of original research in finance under the supervision of a finance faculty member. The thesis will be presented orally and submitted as a written report.

French Courses

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Faculty

Link to Profiles of Full-time Department Faculty

Professor: Tama Lea Engelking (Chairperson); **Associate Professors:** Annie Jouan-Westlund, Lee Wilberschied.

Course Descriptions

Students with native experience of French may not enroll for credit in the 100-level courses in French. All students with training or experience in French other than a previous course in that language at Cleveland State must consult a counselor in the Department of Modern Languages for assistance in deciding where to enter the French sequence. Failure to seek counseling may result in schedule shifts during the first week of class.

All language courses have the following divisions and courses numbered from:

100-114 (200-214, etc.) concern the development of performance skills;

115-34 (215-234, etc.), the nature of language;

135-64 (235-264, etc.), culture and civilization;

165-89 (265-289, etc.), literature;

190-99 (290-299, etc.), independent and specialized courses

FRN 100, 200, 300, 400 Practicum in French (1 to 6 Credits). Prerequisites: Permission of instructor, departmental approval. This course comprises of specially arranged projects or supervised experiences for non-native speakers in French conducted in the university and in the community. Examples include: special work in the Instructional Media Laboratory, participation in a French play, tutorial activity in a basic French course, a study, or service project involving fieldwork in one of the French communities. Projects are arranged between individual students and instructors; title of the project will appear on the student's transcript. It may be repeated for credit with change of topic. Grading is S/U only.

FRN 101, 102 French Language Skills I, II (4-2-5). Prerequisites: for FRN 102: FRN 101 or the equivalent course with C or better or permission of instructor. This course is the development of proficiency in speaking, understanding, reading, and writing French. There is a lab fee.

FRN 192, 292, 392, 492 Special Topics: Study Abroad (1 to 6 Credits). Prerequisite: FRN 192: No prerequisite; FRN 292: FRN 201; FRN 392: FRN 301; FRN 492: FRN 301 and one literature or civilization course. This is the study of a particular topic in French language, literature, or civilization as part of the university's Study Abroad Program. It may be repeated with change of topic.

FRN 196, 296, 396, 496 Independent Study in French (1 to 6 Credits). Prerequisite: Student must have sophomore, junior, or senior standing. Proposed projects must be approved by a full-time department faculty member who will serve as the project adviser, and the department chairperson. The course involves student-initiated supervised projects involving French language or literature, such as in-depth study of a particular writer, or special readings in linguistics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged

between individual students and instructor; title of the project will appear on the student's transcript. It may be repeated for credit with change of topic.

FRN 201 Culture and Civilization (4-0-4). Prerequisite: Completion of FRN 102 or FRN 210 with a C or better. The course is the study of Francophone culture and cross-cultural interactions. It includes ongoing development of French language skills of hearing, speaking, reading, and writing French using authentic cultural materials.

FRN 203 Readings in French (4-0-4). Prerequisite: Completion of FRN 201 or FRN 202 with a C or better or permission of instructor. This is an introduction to the study of literary texts that serves as a bridge between the 200-level (intermediate) and 300-level (advanced) courses. Students develop reading skills and strategies to prepare them for upper-division French literature and civilization courses. A number of genres are studied, and students are introduced to basic critical tools of literary analysis including explication de texte. Course may be organized around a theme. It is highly recommended for students preparing to enter graduate school where reading proficiency in a second language is required.

FRN 207 Intermediate Commercial French (4-0-4). Prerequisite: Completion of FRN 102 with a C or better or permission of instructor. This is an introduction to the world of business and technology in France. It covers socio-economic issues that affect business; everyday commercial activities, such as job interviews, on-the-job routines, and banking. It also involves the continued development of language skills appropriate to the course topic and level. .

FRN 210 Basic Oral Skills (3-0-3). Prerequisite: Completion of FRN 102 with a C or better or equivalent. This course focuses on practice in listening comprehension; exercises designed to improve fluency, pronunciation, and vocabulary.

FRN 216 Translation and Interpretation (3-0-3). Prerequisites: two intermediate French courses (FRN 201, 202, 203, or 210). This is an introduction to theory and practice of translation from French to English. It is based on the workshop approach involving class discussion of students' work-in-progress. Work required varies according to students' level of preparation.

FRN 240, 340, 440 Field Study (1 to 6 credits). Prerequisites: Permission of instructor, departmental approval. The amount of language preparation necessary to participate in any given field experience is to be determined by the department and the instructor. Specially arranged field experience abroad provides intensive exposure to students target countries and languages. It may be preceded by a special preparatory course, such as supervised individual or group work-study experience in the target country followed by a period of travel; supervised two- to six-week group travel for students interested in a language- or culture-oriented project in the target country. See semester course schedule. A bi-annual field study trip to France is offered. For further information, contact the Department of Modern Languages.

FRN 293, 393, 493 Special Topics in French (1 to 4 credits). Prerequisites for FRN 293: Completion of FRN 102 with a C or better; for FRN 393: FRN 301 and sophomore standing or permission of instructor; for FRN 493: FRN 301 and one 300-level FRN course. It may be repeated with a change in topic.

FRN 301 Composition and Conversation (4-0-4). Prerequisite: FRN 202 or FRN 203 and sophomore standing or permission of instructor. This course offers practice in speaking and writing on an advanced level, including grammar review.

FRN 302 Advanced Oral Styles (4-0-4). Prerequisite: FRN 301 (FRN 345 or FRN 402 recommended) and sophomore standing. This course is designed to provide a contemporary proficiency-based format which advanced undergraduate students and teachers can use. The use of authentic recorded materials such as television commercials, telephone messages, radio game shows, and traffic reports work with a variety of language and role models. Sometimes it is cross-listed with FRN 534.

FRN 315 French Phonetics and Diction (4-0-4). Prerequisite: FRN 301 and sophomore standing or permission of instructor. This is a description of the French sound system and study of the phonetic alphabet and its usage. It includes extensive practice in pronunciation in class and in the Instructional Media Laboratory. It is required for majors seeking teaching licensure. This is a Linguistic Studies Course.

FRN 316 Translation and Interpretation (3-0-3). Prerequisite: FRN 301 or the equivalent and sophomore standing or permission of instructor. This is an introduction to theory and practice of translation from French to English. It takes the

workshop approach involving class discussion of students' work-in-progress. Work required varies according to students' level of preparation.

FRN 344 French Civilization from the Middle Ages to the Empire (4-0-4). Prerequisite FRN 301 and sophomore standing or permission of instructor. This course is a study of the social, political, economic and cultural history of France from the Middle Ages through the Napoleonic Empire. Through a chronological study of distinctive historical periods up to 1870, students trace the origins of French culture as we know it today.

FRN 345 French Civilization from 1870 to the Present (4-0-4). Prerequisite FRN 301 and sophomore standing or permission of instructor. This course is a study of the social, political, economic and cultural history of France from 1870 to the present. Beginning with the end of the 19th century, focus is placed on the major historical and cultural events that shaped the image of modern France.

FRN 371 Literature Survey I (4-0-4). Prerequisite: FRN 301 and sophomore standing. Introductory sequence surveys the major literary movements and genres from the Middle Ages to the Revolution.

FRN 372 Literature Survey II (4-0-4). Prerequisite: FRN 301 (FRN 371 or FRN 345 recommended) and sophomore standing. Introductory sequence surveys the major literary movements and genres from the 19th century to the present.

FRN 374 Readings in French Literature (4-0-4). Prerequisite: FRN 301 and sophomore standing. Reading and writing assignments are in the original French. Lectures may be in English if cross-listed with ENF 212/213, 214/215.

FRN 375 Readings in Francophone Literature (4-0-4). Prerequisite: FRN 301 and sophomore standing. This is an introduction to literature written in French from Francophone countries outside of France. It may be organized as a survey touching on works drawn from a number of French-speaking countries, or around one or two regions such as North Africa and the Caribbean. Texts are situated in their historical context with an emphasis on identity as it relates to language, tradition and the influence and/or rejection of a colonial past. Lectures may be in English if cross-listed with MLA 265.

FRN 402 Advanced Composition and Conversation (4-0-4). Prerequisites: FRN 301 and one 300-level French literature course and sophomore standing. This course is the continuation of FRN 301 on a more advanced level; it includes development of style and accuracy.

FRN 416 Studies in French Linguistics (3-0-3). Prerequisites: FRN 402 and one 300-level French course and sophomore standing or permission of instructor. Topics to be announced in semester course schedules. It may be repeated for credit with change of topic.

FRN 441 French Capstone Field Study Project (4-0-4). Open to students participating in the bi-annual study abroad program to France who have completed a minimum of three courses in French at the 300-level or higher, or by permission of instructor. Course focuses on an individualized project under the supervision of the study abroad director that reflects research and field work on specific topics linked to France, the Auvergne region and/or Paris. Project includes written and oral components and focuses on building analytical, research, writing and oral presentation skills in French. It satisfies the capstone requirement for French majors.

FRN 491H Senior Honors Project (3-0-3). Prerequisite: French major with Honors standing. Project must be preapproved by project adviser who is a full-time faculty member, department chair, and department curriculum committee. An independent research project is developed in cooperation with faculty adviser. Completed projects are submitted in written form and presented orally in a public forum.

FRN 494 French Capstone (4-0-4). Open to students who have completed a minimum of three courses in French at the 300-level or higher, or by permission of instructor. Course focuses on building analytical, research, writing and oral presentation skills in French on topics related to French and Francophone culture, literature and film. Topic varies. It satisfies the capstone requirement for French majors.

The following graduate courses are offered in French for candidates of the Master of Education in Curriculum and Instruction with a concentration in French (may be repeated with change of topic):

FRN 534 Studies in Language and Linguistics (3-0-3)

FRN 540 Field Experience Abroad (1 to 6 credits)

FRN 592 Special Topics: Study Abroad (1 to 6 credits)

FRN 593 Special Topics in French (4-0-4)

FRN 594 Special Topics in Literature (1-6)

FRN 596 Independent Study (1 to 6 credits)

General Administration Courses

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Faculty

Professor Emerita: Margaret H. Bahniuk; **Associate Professors:** Kenneth R. Mayer, Marion S. Webb.

Course Descriptions

GAD 250 Business Communications (3-0-3). Prerequisites: ENG 101, ENG 102, or equivalent. To develop an understanding of the principles of effective communication and to apply them to the solution of management problems in the form of written reports, memoranda and letters, and professional oral presentations.

Geology Courses

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Faculty

Geology is part of the Department of Biological, Geological, and Environmental Sciences.

Link to Department Personnel
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Professors: Abbed Babaei, W.B. Clapham, Jr.; **Professor Emeritus:** Howard H. Lo; **Assistant Professor:** Fasong Yuan.

Course Descriptions

GEO 100 Introductory Geology (3-0-3). Co-requisite: GEO 101. This course is a basic introduction to the composition of the earth, with a detailed discussion of the physical and chemical processes that bring about its continual evolution.

GEO 101 Introductory Geology Laboratory (0-2-1). Co-requisite: GEO 100. The course includes selected exercises designed to reinforce some concepts covered in GEO 100.

GEO 106 Introduction to Meteorology (3-0-3). This is an introduction to weather and weather systems, with a detailed discussion on the nature of the atmosphere, air motions, precipitation, storms, weather patterns, and weather analysis.

GEO 124 Beyond Google Earth (The Science of Looking at the Place We Live) (3-1-4). The course is an overview of the imagery and other tools used by geospatial scientists to evaluate the resources and limitations of the earth's surface. These include geographic positioning systems, aerial photography, satellite imaging, and geographic information systems (GIS), as well as their applications. Laboratory exercises will provide hands-on experience with these technologies and with the techniques used to extract information and understanding from raw geospatial data.

GEO 140 Development of Continents and Oceans (3-0-3). This is an introduction to the structure and history of continents and ocean basins; an examination of geological provinces of North America, and the sequence of events through geological time that created and changed the earth.

GEO 150 Geological History of the Earth (3-0-3). This course is an introduction to the history of the earth. It includes an examination of the biochemical and geological evidence for the origin of life and the mechanisms and patterns of evolution, evaluating the most significant events in the evolutionary history of plants and animals through geological time. It also includes an introduction to the structure and history of continents and ocean basins, concentrating on the events through geological time that created the North American continent.

GEO 151 Geological History of the Earth Laboratory (0-2-1). Pre- or co-requisite: GEO 150. This is a series of selected exercises designed to reinforce concepts presented in GEO 150, including interpretation of maps, implication of geological laws and principles, and identification of fossils.

GEO 170 Origin and History of Life (3-0-3). Topics include biochemical and geological evidence relating to the origin of life and the mechanisms and patterns of evolution; and significant events in the evolutionary history of plants and animals.

GEO 204 Mineralogy (3-2-4). Prerequisites: GEO 100/101, CHM 261, or permission of the instructor. One year of chemistry recommended. This course is the study of the nature, chemistry, and crystal structure of minerals. The course is shared with the University of Akron. When offered at Akron, lecture components will be available at CSU using distance learning facilities but laboratories will be only in Akron.

GEO 206 Petrology (3-2-4). Prerequisites: GEO 100/101 and one year of chemistry or permission of the instructor. This course is the study of silicate minerals and the way they and non-silicate minerals form rocks. The course is shared with the University of Akron. When offered at Akron, lecture components will be available at CSU using distance learning facilities but laboratories will be only in Akron.

GEO 210 The Earth and Human Affairs (3-0-3). Topics include the examination of geologic hazards, such as earthquakes, landslides, floods, and shoreline erosion, including class discussion of current events of this type. The course also includes an examination of the development of society.

GEO 230 Natural Resources (3-0-3). This course includes the examination of our natural resources with emphasis on nonrenewable fossil fuels and mineral resources; a discussion of the effect of population growth and technology on rates of consumption, mineral economics, and the concept of "reserves"; and the future outlook with regard to alternative sources of energy, substitutes, and recycling.

GEO 293 Special Topics in Geology (1 to 4 credits). Prerequisite: Permission of instructor. Topics reflect material of special or timely interest which is not likely to be appropriate for regular, continuing course offerings. The course may be repeated for up to 16 credits with a change in topic.

GEO 302 Paleobiology (3-2-4). Prerequisites: GEO 100/101 or permission of the instructor. This is the study of the origins, evolution, and fossil record of life and the development of living things over the last half-billion years. The course is shared with the University of Akron. When offered at Akron, lecture components will be available at CSU using distance learning facilities but laboratories will be only in Akron.

GEO 312 Sedimentation and Stratigraphy (3-0-3). Prerequisites: GEO 100 and GEO 323, which may be taken concurrently with GEO 312, or permission of the instructor. Co-requisite: GEO 313. This is the study of the origin, dispersal, deposition, and lithification of sediments; variation of sedimentary parameters; discussions of facies, correlation, use of sedimentary structures, and paleographic reconstruction; and regional stratigraphy of North America.

GEO 313 Sedimentation and Stratigraphy Laboratory (0-2-1). Co-requisite: GEO 312. This course consists of selected exercises designed to reinforce concepts covered in GEO 312.

GEO 314 Paleoecology (3-0-3). Topics include environmental reconstruction using fossils; particular attention given to organism-sediment interrelations, organism diversity, distribution adaptive morphology, and community structure.

GEO 320 Structural Geology (3-0-3). Prerequisites: GEO 100, GEO 101and GEO 323 or permission of the instructor. Co-requisite: GEO 321. This is the study of the forces involved in the deformation of the earth's crust and the mechanical properties of materials, with emphasis on the recognition, interpretation, and illustration of the resultant geologic structures.

GEO 321 Structural Geology Laboratory (0-2-1). Co-requisite: GEO 320. The course includes a set of selected exercises designed to reinforce concepts covered in GEO 320.

GEO 323 Geospatial Concepts and Tools (1-4-3). This is a practicum on environmental geography, concentrating on the information, concepts, and tools we use to visualize and analyze the environment. Basic information sources include maps, aerial photographs, and satellite imagery. Analytical tools include direct observation and measurement of these sources, as well as an introduction to the use of geographic information systems and image processing for remote sensing. The course is intended for majors in biology, environmental science, and geology.

GEO 350 Introduction to Oceanography (3-0-3). Prerequisites: Minimum of two science courses. This course includes the examination of the interrelated physical, chemical, biological, and geological processes operating in sea water and ocean basins; selected topics relating to the geologic interpretation of the marine rock record; factors regulating growth and environmental habitat of organisms; and the geophysics of ocean basins.

GEO 354 Geochemistry (4-0-4). Prerequisites: GEO 100 and GEO 101, or permission of instructor. This is the study of geochemical principles and their application to geologic processes. Topics include radiometric dating, element abundance, water chemistry, sedimentary geochemistry, and the geochemistry of invertebrate skeletons, particularly their isotopic, and trace element compositions.

GEO 358 Field Geology of the Cleveland Area (2-0-2). Prerequisites: Two courses in science or permission of instructor. Co-requisite: GEO 359. This course describes the geological history of the Cleveland area and illustrates its relation to the physical, economic, and social development of Cleveland. The course will include laboratory exercises but will emphasize field trip studies.

GEO 359 Field Geology of the Cleveland Area Laboratory (0-2-1). Co-requisite: GEO 358. This course is comprised of selected exercises designed to reinforce concepts covered in GEO 358.

GEO 390 Writing in Geology I (2-0-2). Prerequisite: a declared geology major and permission of the BGES Geology Advisor. Corequisite: Students must be concurrently enrolled in a 300- or 400-level geology course. This course is designed to develop the writing and oral presentation skills of students through assigned projects and in-class activities. Students will write conceptual (review or theoretical) papers according to a standard format. A substantial written report is one of the requirements. The 300/400 level Geology course instructor, in consultation with the student, will determine the topic of the written report. *Writing*

GEO 404 Environmental Science for Teachers (3-0-3). Prerequisites: At least three courses in the College of Education at the 300-level or above, or equivalent, or permission of the instructor. This course focuses on the application of environmental science to the classroom. Substantive materials from geology, biology, chemistry, and other sciences will be integrated to create a coherent picture of the functioning of the complex systems underpinning the natural world and human society; and the ability for students to understand how society can manage these systems. This course is intended for students working toward school certification. A significant part of the course will be the development of curricular materials based on course content for use in participants' own classes.

GEO 408 Environmental Geology for Teachers (3-0-3). Prerequisites: At least three courses in the College of Education at the 300-level or above, or equivalent, or permission of the instructor. This course is a detailed examination of geologic hazards and the constraints placed by regional geology and geography on the problems facing modern, urban industrial societies. It is intended for students working toward school certification. A significant part of the course will be the development of curricular materials based on course content for use in participants' own classes.

GEO 410 Geological History of the Cleveland Area (3-0-3). Prerequisites: At least three courses in the College of Education at the 300-level or above, or equivalent, or permission of the instructor. This course provides a basis of illustrating the relation of regional geology to the physical, economic, and social development of the Cleveland area. The course will emphasize laboratory experimentation and field trip studies.

GEO 425 Introduction to Geographic Information Systems and Remote Sensing (2-4-4). Prerequisite: GEO 323. This course is an introduction to Geographic Information Systems and the use of computerized techniques for assessing geographically distributed data. The course will include the use of GIS techniques to analyze data and present those analyses. It will concentrate on the use of satellite imagery and aerial photography, as well as standardized data sets available from commercial sources and the World Wide Web. Laboratory is selected exercises designed to reinforce concepts covered in lecture.

GEO 427 Advanced Topics in Remote Sensing and Geographic Information Systems (1-6-4). Prerequisite: GEO 425. The course is an intensive investigation of the techniques and problems associated with using remote-sensed data for Geographic Information Systems-based analyses in geology, biology, and environmental science.

GEO 444 Hydrogeology (3-0-3). Prerequisite: At least one course at the 300-level or higher in Geology (excluding GEO 404, 408, and 410). Co-requisite: GEO 445. This is the study of the concepts and principles of ground-water flow in rocks, sediments, and soils. The course will deal with flow in both saturated and unsaturated zones, and will include issues related to ground-water use, pollution, and ground-water monitoring both for quality and quantity. Laboratory exercises will cover mathematical and computer solutions to equations and real life situations. Some field work will be required.

GEO 445 Hydrogeology Laboratory (0-2-1). Corequisite: GEO 444. This course is a set of selected exercises designed to reinforce concepts covered in GEO 444.

GEO 451 Field Geology (Minimum of 4 credits). This course covers geological mapping using aerial photographs and topographic maps; solution of field problems in stratigraphy, structure, and paleontology. A written report is required. The course is offered in the summer at selected universities.

GEO 460 Geomorphology (3-2-4). Prerequisite: GEO 323 or permission of instructor. This is the study of the surface forms of the earth, with emphasis on erosional or depositional processes in different climates and the forms they produce. Laboratory is selected exercises designed to reinforce concepts covered in lecture. *Writing*

GEO 490 Internship in Geology (1 to 4 credits). Prerequisite: Permission of instructor. This is an independent study related to work experience for majors in Geology and Environmental Sciences.

GEO 493 Special Topics in Geology (1 to 4 credits). Prerequisite: Permission of instructor. Topics are to reflect material of special or timely interest which is not likely to be appropriate for regular, continuing course offerings.

GEO 496 Independent Study in Geology (1 to 4 credits). Prerequisite: Permission of instructor. This is an independent study of material of special or timely interest which is not likely to be appropriate for or covered in regular course offerings. The course may be repeated for credit with change of topic.

GEO 497 Research in Geology (1 to 12 credits). Prerequisite: Permission of instructor. Undergraduate research carried out by special arrangement. The student may work independently or as an assistant to a faculty investigator. The course may be repeated for up to 16 credit hours.

GEO 499 Exit Evaluation (0-1-0). Prerequisite: Senior standing. Final exit examination and outcomes assessment evaluation required of all graduating seniors. Graded S/U.

German Courses

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Faculty

Professors: Tama Lea Engelking (Chairperson), Professors Emeriti: Edward R. Haymes

Course Descriptions

Students with native experience of German may not enroll for credit in the 100-level courses in German. All students with training or experience in German other than a previous course in that language at Cleveland State must consult a counselor in the Department of Modern Languages for assistance in deciding where to enter the German sequence. Failure to seek counseling may result in schedule shifts during the first week of class.

All language courses have the following divisions and courses numbered from:

100-114 (200-214, etc.) concern the development of performance skills;

115-34 (215-234, etc.), the nature of language;

135-64 (235-264, etc.), culture and civilization;

165-89 (265-289, etc.), literature;

190-99 (290-299, etc.), independent and specialized courses

GER 100 200-300-400 Practicum in German (1 to 3 Credits). Prerequisites: Permission of instructor, departmental approval. This course is comprised of specially arranged projects or supervised experiences for non-native speakers in German, conducted in the university and in the community, such as special work in the Instructional Media Laboratory, participation in a German play, tutorial activity in a basic German course, and a study or service project involving fieldwork in one of the German communities. Projects are arranged between individual students and instructors. The title of the project will appear on the student's transcript. It May be repeated for credit with a change of topic. S/U only.

GER 101 102 German I, II (4-2-5). Prerequisites: GER 101: No prerequisite; GER 102: Completion of GER 101 or the equivalent course with C or better or permission of instructor. This course covers the essentials of German grammar and practice in speaking, understanding, reading, and writing. Lab fee.

GER 105 205-305 Directed Studies in German (1 to 4 Credits). Prerequisite: Permission of instructor. These are Teacher-Assisted Directed Studies (TADS) courses for those special needs of individual students not met by the regular course offerings in the areas of reading, vocabulary building, and phonetics. These TADS courses allow such students to begin or continue their study of the German language or of special aspects of it by working on their own with a detailed study guide. Specific topics, level, and number of credits vary according to student's needs and are decided in consultation with course instructor. Students completing one of these TADS courses in German as their first German course at Cleveland State are not eligible for retroactive credit. GER 105 does not normally fulfill the language deficiency. GER 205 and 305 do not normally count toward a German major or minor. (Petitions will be decided by the department chair and the faculty of German.)

GER 192 292-392-492 Special Topics: Study Abroad (1 to 6 Credits). Prerequisite: GER 192: No prerequisite; GER 292: GER 201; GER 392: GER 301; GER 492: GER 301 and one literature or civilization course. This is the study of a

particular topic in German language, literature, or civilization as part of the university's Study Abroad Program. It may be repeated with change of topic.

GER 196 296-396-496 Independent Study in German (1 to 6 Credits). Prerequisite: Student must have sophomore, junior, or senior standing. Proposed projects must be approved by a full-time department faculty member (who will serve as the project adviser) and the department chairperson. Student-initiated supervised projects involving German language or literature, such as in-depth study of a particular writer, and special readings in linguistics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged between individual students and instructor. The title of the project will appear on the student's transcript. It may be repeated for credit with change of topic.

GER 201 Culture and Civilization (4-0-4). Prerequisite: Completion of GER 102 or equivalent with a C or better or permission of instructor. Readings explore German customs, attitudes, history and values in comparison with the U.S. practice and expansion of skills development

GER 202 Literature Survey (4-0-4). Prerequisite: Completion of GER 102 or equivalent with a C or better or permission of instructor. This course involves the reading of cultural and literary texts. It is an ongoing review and expansion of skills development.

GER 207 Intermediate Commercial German (4-0-4). Prerequisite: Completion of GER 102 with a C or better or permission of instructor. This course is an introduction to the world of business and technology in Germany. It covers socio-economic issues that affect business; everyday commercial activities, such as job interviews, on-the-job routines, and banking. It supports the continued development of language skills appropriate to the course topic and level.

GER 235 Germany Today (3-0-3). The course gives a current picture of the German-speaking countries of Germany, Austria, and Switzerland, stressing the period since 1945 and most recent developments since the reunification of East and West Germany. Topical emphasis may change each time it is offered. Topics include politics, the social and economic situation, education, women's questions, culture and literature, film and other media. It may be repeated with change of topic. The course is regularly offered in conjunction with the university's Germany Abroad Program.

GER 240 340-440 Field Study (1 to 6 Credits). Prerequisites for GER 240: Completion of GER 102 with a C or better or the equivalent; for GER 340: GER 301 and sophomore standing or permission of instructor; for GER 440: 12 credits in German on the 300- or 400-level or permission of instructor. The amount of language preparation necessary to participate in any given field experience is to be determined by the department and instructor. This is a specially arranged field experience abroad providing intensive exposure to students' target countries and languages. It may be preceded by a special preparatory course, such as supervised individual or group work-study experience in the target country followed by a period of travel; or supervised two- to six-week group travel for students interested in a language- or culture-oriented project in the target country. See course schedule. A field study trip to German-speaking countries will be offered periodically. The program and course content may vary. For example, Summer Campus: Berlin takes place in alternate even-numbered years, and consists of two weeks of intensive preparation at Cleveland State University, four weeks in Berlin (including travel and stays in Germany), and one or two weeks of free travel. Studies concentrate on culture, civilization, and language; it also includes classes in music and/or political science. The program may also be taken on the graduate level. For further information, contact the Department of Modern Languages.

GER 293 393-493 Special Topics in German (1 to 4 Credits). Prerequisites for GER 293: Completion of GER 102 with a C or better or the equivalent; for GER 393: GER 301 and sophomore standing or permission of instructor; for GER 493: GER 301 and one 300-level GER course. The topic is announced in the semester course schedule. It may be repeated for credit with a change of topic.

GER 301 Composition and Conversation (4-0-4). Prerequisite: GER 202 and sophomore standing or equivalent. This course covers practice in speaking and writing on an advanced level. Materials may include study of specialized usages, such as business or communication.

GER 315 Phonetics and Contrastive Structures (3-0-3). Prerequisite: GER 301 and sophomore standing or the equivalent. This course is an extensive practice of German pronunciation in class and in the laboratory. It includes the study of crucial differences in the sounds and grammatical structures of German and English. This is a Linguistic Studies course.

GER 316 Translation Workshop (3-0-3). Prerequisite: GER 301 and sophomore standing or the equivalent. This is an introduction to the theory and practice of professional translation, normally from German to English; it is a workshop approach involving class discussion of students' work-in-progress. The work required varies according to students' level of preparation. It may be repeated for credit.

GER 371 Introduction to the Study of Literature (3-0-3). Prerequisite: GER 301 and sophomore standing or permission of instructor. This is an introduction to the major concepts of literary study with application to masterworks of German literature.

GER 402 Advanced Composition and Conversation (4-0-4). Prerequisite: GER 301 and sophomore standing. Continuation of GER 301 on a more advanced level. This course involves the development of style and accuracy.

GER 448 German Culture and Civilization (3-0-3). Prerequisite: GER 301 and sophomore standing or equivalent. This is a survey of 200 years of German culture and civilization from 1786 to present.

GER 491 Senior Honors Project (3-0-3). Prerequisite: For MLA Honors Students Only. Project must be preapproved by project adviser (who is a full-time faculty member), department chair, and department curriculum committee. The course involves an independent research project developed in cooperation with faculty adviser. Completed projects will be submitted in written form, and presented in a public forum.

The following graduate courses are offered in German for candidates of the Master of Education in Curriculum and Instruction with a concentration in German (may be repeated with change of topic):

GER 534 Studies in Language and Linguistics (3-0-3)

GER 540 Field Experience Abroad (1 to 4 credits)

GER 564 Studies in Culture and Civilization (3-0-3)

GER 589 Studies in Literature (3-0-3)

GER 592 Special Topics: Study Abroad (1 to 6 credits)

GER 596 Independent Study (1 to 4 credits)

Greek Courses

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Faculty

Professor: Tama Lea Engelking (Chairperson); **Associate Professor:** Michael Baumer; **Assistant Professor:** Kelly Wrenhaven.

Course Descriptions

GRK 101 Introduction to Ancient Greek I (4-0-4). This course provides a basic introduction to ancient Attic (Athenian) Greek. It is based on reading and translating progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.

GRK 102 Introduction to Ancient Greek II (4-0-4). This course continues on from GRK 101 and completes the textbook. Like GRK 101, the course is based on reading and translating progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.

GRK 350 Accelerated Classical Greek Language and Culture III (4-0-4). Prerequisite: GRK 102 or its equivalent with a grade of C or better; or permission of the instructor. Students should consult instructor for eligibility. This is a review of the grammar, syntax, and basic vocabulary for students who have had at least a year of Classical Greek in college or two years in high school. It is intended to prepare students for reading both classical and koine Greek. Readings selected from classical authors and New Testament texts. The course includes a cultural component which emphasizes the civilization of the ancient Greek world and the history of Greek literature; a special unit on the place of Greek in the Indo-European family of languages, and principles of English word-borrowing is included.

GRK 351 Accelerated Classical Greek Language and Culture IV (4-0-4). Prerequisite: GRK 350 or permission of the instructor. This course is comprised of selected readings from classical authors such as Plato, Xenophon, Euripides, Herodotus or the New Testament. It emphasizes sight reading, vocabulary-building, and research skills. The course includes a cultural component which emphasizes the civilization of the ancient Greek world and the history of Greek literature.

GRK 396 496 Independent Study in Greek (1 to 4 credits). Prerequisites: Student must have sophomore, junior or senior standing. Proposed projects must be approved by a full-time department faculty member, who will serve as the project adviser, and the department chair. The course includes student-initiated supervised projects involving Greek language or literature, such as in-depth study of a particular writer; or special readings in linguistics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged between student and instructor; project's title appears on student's transcript. It may be repeated for credit with change of topic.

Health Care Administration Courses

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Faculty

Link to Program Personnel
Link to Profiles of Full-time Faculty

Professor Emeritus: Charles H. Brooks; **Professor:** Santosh Misra (Interim Director); **Assistant Professors:**, Christine B. Mahoney, Lori Peterson; **Adjunct Faculty:** Georgia Anetzberger

Course Descriptions

HCA 301 The American Health Care System (3-0-3). Course introduces the student to the health-care system by concentrating on current arrangements for the organization, financing, and delivery of medical-care services in the United States. Emphasizes concepts of accessibility, quality, efficiency, and the effectiveness of medical care. Counts as non-business elective for business students.

HCA 420 Management of Health Care Organizations (3-0-3). Course examines the internal organization and management of health-care facilities. The principles of organization and management will be applied to hospital and nursing-home structure, function, and internal control. The roles of management and professional services will be examined. Management's responsibilities for cost and quality control, as well as the development of proactive marketing strategies, will be discussed. Counts as non-business elective for business students.

HCA 490 Professional Internship (1 to 3 credits). Prerequisite: Permission of HCA program director. Enables a qualified student to earn credit and gain meaningful professional experience in a health care organization.

HCA 493 Special Topics in Health Care Administration (1 to 3 credits). Prerequisite: Senior standing and permission of instructor and HCA program director. Explores current issues or special topics in health care administration. Topics and course requirements will be announced by the HCA Program office.

HCA 496 Independent Study (1 to 4 credits). Prerequisite: Permission of HCA program director. Enables a qualified student to investigate special areas of interest in health care administration. Written proposal must be approved by a faculty adviser and HCA program director; a written report must be submitted to faculty adviser.

Health, Physical Education, Recreation and Dance Courses

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Faculty

Link to Department Personnel
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Professors: Lynn Deering, E. Michael Loovis; **Associate Professors:** Sheila Patterson (Chairperson), Judith Ausherman, Jill Black, Richard Hurwitz, Eddie T.C. Lam, Kathy Little, Ken Sparks; **Professors Emeriti:** Vince Melograno, Sue Ziegler; **Associate Professor Emerita:** Jane Pease; **Instructor:** George Morton; **Clinical Assistant Professor:** Susan Uebel

Course Areas

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Health Courses

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Course Descriptions

HED 200 First Aid and Emergency Care (2-0-2). American Red Cross Certification in Community First Aid, Cardiopulmonary Resuscitation, and OSHA standards.

HED 210 Healthy Lifestyle Choices (3-0-3). This course provides an understanding of the responsibility we have for our own health. The themes are personal decision-making and adaptation. Self-assessment inventories are used to involve students in many health issues and provide a means for applying health information in personal decision-making. Becoming a healthy older person is directly related to specific health choices an individual makes at the present time. Therefore the goal of this course is to explore major personal topics and to apply them in order to achieve, maintain, and promote high-level health.

HED 359 Principles of Health Education (3-0-3). This course examines the field of health education in terms of historical developments, professional standards, roles, theoretical foundations, ethics, application, and settings. Program planning, development, implementation, and evaluation is also covered.

HED 450 Theories in Health Education and Health Behavior (4-0 4). This course provides a broad theoretical base for the analysis of healthy/unhealthy behaviors. The research and theoretical literature is reviewed in areas such as socio-cultural and environmental factors associated with health behaviors, communications, and behavior change strategies in health education. This course is a foundation for the planning and development of effective health education and health promotion programs.

HED 460 Foundations of a Coordinated School Health Program (4-0-4). This course is designed to provide teachers, counselors, nurses, and administrators with basic knowledge of coordinated school health programs (CSHP). It addresses the process and issues associated with planning, implementing, evaluating, and organizing a CSHP in accordance with national and state guidelines.

HED 461 Methods and Materials for Health Education (3-0-3). Prerequisites: HED 210 or equivalent and HED 460 or equivalent. The course is designed to introduce students to productive, creative, and innovative methods needed to implement comprehensive school health education at appropriate grade levels. Students become familiar with organizing and presenting health content, health materials, health curricula, community resources, using technology, and communicating about a healthy lifestyle.

HED 470 Pathophysiology of Disease (4-0-4). This is the study of the etiology of diseases, including progression, diagnosis, and treatment. It focuses on the body's immune defense mechanisms for both chronic and communicable disease; emphasis is placed on basic principles and a variety of examples. Some anatomy and physiology recommended.

HED 471 Substance Abuse Education (3-0-3). This course provides basic knowledge of the physiological, psychological, and sociological effects of substance use, misuse, and abuse. It examines factors that influence substance use, misuse, and abuse as well as attitudes and behaviors. Drug prevention and intervention programs are examined and evaluated.

HED 472 Consumer Health (3-0-3). The course examines health products and services, advertising, marketing, quackery and government control, and guidelines for consumer action when deception, misrepresentation, or fraud is encountered. Students become more informed consumers of health products and services. Implications for health education are considered.

HED 473 Teaching Human Sexuality (3 -0-3). Course provides concepts and information about comprehensive sexuality-education including moral, physiological, psychological, and social aspects. Emphasis is placed on methodology and organization of human sexuality programs for school and community settings.

HED 474 Stress Management (3-0-3). This course examines the role and function of stress in everyday life from a physiological, psychological, and sociological perspective. Personal, situational, and environmental sources of stress are explored along the continuum from distress to eustress. Stress management techniques are examined.

HED 475 Nutrition and Physical Activity (3-0-3). This is the study of the relationship between nutrition, physical activity, and health. Topics include macronutrients, micronutrients, water, role of proper nutrition for optimal physical performance, role of nutrition and physical activity for weight control, and prevention and treatment of disease.

HED 476 Teaching Nutrition (3-0-3). The course explores various instructional materials and strategies available for teaching concepts of nutrition to learners in school and community settings andprovides experience in designing and implementing appropriate instructional strategies. Previous knowledge of basic nutritional concepts is recommended.

HED 477 Social Issues and Needs in Nutrition (3-0-3). This is the study of the relationship between nutrition and the socio-cultural environment. Topics include nutrition and mass media, cancer and diet, nutrients as chemo-preventive agents, drug/nutrient interactions, safety and adequacy of U.S. food supply, world hunger.

HED 480 Practicum in Health (0-6-3). Prerequisite: Permission of department chair. A structured, supervised field experience designed to provide an extended, practical experience in a selected health setting; designed and executed by the student in consultation with a member of the faculty.

HED 481 Practicum in Health (0-12-6). Prerequisite: Permission of department chair. This is a structured, supervised field experience designed to provide an extended, practical experience in a selected health setting; it is designed and executed by the student in consultation with a member of the faculty.

HED 496 Individual Projects in Health Education (0-2-1). Prerequisite: Permission of department chair. This is an independent project in a selected area of health education. The project must be approved by and arrangements made with permission of project supervisor and department chair. It may be repeated for a maximum of four hours.

HED 497 Individual Projects in Health Education (0-4-2). Prerequisite: Permission of department chair. This is an independent project in a selected area of health education. The project must be approved by and arrangements made with permission or project supervisor and department chair. It may be repeated for a maximum of four hours.

Health, Physical Education, Recreation Core Courses

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Course Descriptions

HPR 101 Wellness As A Lifestyle (2-0-2). This is an introduction to lifestyle behaviors over which people can exert some control; emphasis is on benefits of exercise and fitness, proper diet, and stress reduction, along with management of lifestyle behaviors important for good health and lifetime wellness; personal wellness goals are developed. This is a wellness course.

HPR 250 Diversity in Sport (3-0-3). This course examines historical and contemporary issues, cultural concerns, politics and practices, in analyzing the progress made in the sporting experiences for minorities and women in the United States. Through the lens of social justice, sport will be explored at all levels from the loss of opportunities in sports for minority children to the illusion of equity in collegiate and professional sports for women. The positioning of sport in society is examined via the gender-race power relationships that emerge through sport.

Physical Education Professional Courses

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Course Descriptions

PED 200 Foundations of Sport, Exercise, and Movement (2-0-2). This course is the examination of the disciplines, professions, and careers relating to physical education and sport, including the historical perspective, as well as current issues and problems that influence philosophical, psychological, and physiological aspects of sport and activity participation.

PED 205 Introduction to Sport Management (3-0-3). This course examines sport and sport-related organizations and acquaints students with job opportunities in the profession. It is also an overview of the body knowledge in sport management. Future trends in sports management are highlighted. It includes 30 contact hour field experience.

PED 210-213 Group I Forms of Movement (0-2-1). Prerequisite: Fundamental skill in each sport covered is required. Persons lacking such skills may attain this skill level by taking the PES equivalent, if available, to develop basic skill proficiency. This course involves the development of intermediate skills and knowledge of rules, skill techniques, and strategies of the game. The student is exposed to a variety of teaching strategies, styles, and learning environments. The course includes a lab teaching opportunity. The following Group I courses will be offered:

PED 210 Archery and Golf

PED 211 Badminton and Tennis

PED 212 Bowling, Table Tennis, Orienteering, Boccie Ball, and Croquet

PED 213 Track & Field and Aerobic Activities

PED 215-218 Group II Forms of Movement (0-2-1). Prerequisite: Fundamental skill in each sport covered is required. Persons lacking such skills may attain this skill level by taking the PES equivalent, if available, to develop basic skill proficiency. This course includes the development of intermediate skills and knowledge or rules, skill techniques, and strategies of each game or sport. The student is exposed to a variety of teaching strategies, styles, and learning environments. The course includes a lab teaching opportunity. The following Group II courses will be offered:

PED 215 Lacrosse, Field Hockey, and Touch Football

PED 216 Pickleball, Rugby, Team Handball, Broomball, and Floor Hockey

PED 217 Softball and Basketball

PED 218 Volleyball and Soccer

PED 220-222, 227 and 240 Alternative/Lifetime Sports (0-2-1 or 0-4-2. Courses in this block of study are designed to expose the student to the various adventure education-type sport activities. Emphasis is placed on the development of sport-specific basic skills and knowledge related to each of the sport activities. The following Alternative/Lifetime Sports courses are offered (typically in a weekend or other intensive period schedule format):

PED 220 Cross-Country Skiing and Snowshoeing

PED 221 In-Line Skating and Cycling

PED 222 Rock Climbing and Backpacking

PED 227 Aerobic Instructor Training

PED 240 Adventure Sports (2 credits)

PED 225 Movement, Tumbling, and Apparatus (1-2-2). The student has the opportunity to develop the fundamental skills necessary for basic movement activities, tumbling activities, pyramid building, couple stunts, and select pieces of apparatus work. The student is exposed to a variety of teaching strategies, styles, and learning environments. The course includes a lab teaching opportunity. Attention is paid to safety, skill analysis, class management, and assessment.

PED 226 Swimming (1-2-1). Prerequisite: Red Cross Level 4, Learn to Swim Proficiency. This course involves the analysis of aquatic skills, methods and strategies of instruction, progressions, classroom management in aquatic settings, and evaluation.

PED 227 Aerobic Instructor Training (1-2-1). This course involves the development of skills and knowledge necessary to create and instruct safe and effective aerobic dance classes.

PED 250 Mental Skills Training (2-0-2). Designed for student athletes and performers (including musicians) who are interested in improving their practice and competitive behaviors. Focus is on self-assessment, identifying areas in need of improvement, and the application of mental skills and performance enhancement strategies that can be incorporated into an overall mental performance plan.

PED 270 Aquatic Programs (3-0-3credits). Prerequisite: PED 226. This is the the study of the broad field of aquatics, including self-propelled and equipment-propelled activities. It involves an understanding of certification programs, including swimming, boating, and sailing, and the ability to effectively contrast programs when more than one exists. It is also an understanding of swimming pool chemistry to pass National Pool and Spa Foundation Pool Operators Course.

PED 285 Adapted Aquatics (1-2-2). Instruction leading to Red Cross adapted aquatics certification. Emphasis is placed on instructing adapted physical education through the medium of water, including methods of organizing, administering, and implementing a program for the handicapped.

PED 301 Early Childhood/Middle Childhood Physical Education (2-2-3credits). The course includes movement and skill concepts necessary to successfully implement and teach in the pre k-5 setting. Major emphasis is given to developmentally appropriate games, sports, and activities for each grade. Additionally, students have the opportunity to practice skills and activities learned both in lab and field settings. Attention is given to the organization, management, and assessment of students in this age group. A wide variety of teaching strategies, styles, and learning environments is explored and practiced.

PED 302 Middle Childhood/Adolescent-Young Adult Physical Education (3-0-3 credits). Prerequiste: PED 301. This course involves the development of teaching strategies and styles necessary for the implementation of team, individual, and contemporary (requiring minimum skill acquisition for success) activities from 6th grade through adulthood. Emphasis is placed on practical teaching concerns, such as skills needed for class control and activity adaptation for special populations as well as sensitivity to the diversity in our classrooms. Special attention is given to the full inclusion of all children regardless of physical skill, physical or mental disabilities, or environmental limitations of facilities. Course includes a lab assignment which provides the student with an opportunity to practice teaching in a PES activity course.

PED 316 Health and Physical Education for Classroom Teachers (3-1-3 credits). Prerequisite: HED 210 or equivalent. The course introduces students to productive, creative, and innovative methods needed to implement school health education and physical education at the elementary grade levels. Students become familiar with organizing and presenting health and physical education content, materials, curricula, community resources, using technology, and communicating about healthy lifestyles. Course includes a service learning component.

PED 322 Kinesiology (3-0-3). Prerequisite: BIO 266, BIO 267. The course is the study of the scientific basis of human movement and the implements used in activity. The biomechanics of physical activity is reviewed and movement is

analyzed. The musculoskeletal system is studied and application is made to posture, locomotion, and selected physical-activity skills. The application of biomechanics and anatomy is emphasized during instructional activities and laboratories.

PED 324 Physical Fitness (0-2-1). Prerequisites: BIO 268, BIO 269. The course is designed for the evaluation and development of personal physical fitness. Hands-on fitness evaluation and exercise prescription for the healthy and cardiac patient are discussed with emphasis on risk factor reduction. This course must be taken with PED 325 and is designed for physical education majors only.

PED 325 Physiology Of Exercise (4-0-4). Prerequisites: BIO 268, BIO 269. This is the study of the physiological function during physical activity and the effects of exercise training programs. The functional bases for physical activity and fitness, including metabolic energy sources, cardiorespiratory function, muscle contraction, temperature regulation, and gender comparisons are studied. Laboratory activities focus on the application and measurement of physiological function during exercise. This course must be taken with PED 324 and is designed for physical education majors only.

PED 328 Legal and Administrative Aspects of Physical Education (4-0-4 credits). Legal aspects of physical education include an overview of the U.S. and Ohio legal system, theories and defenses of negligence, intentional torts, contracts, Americans with Disabilities Act, and appropriate components of the Occupational Health and Safety Act. Administration includes organizational and management theories, scheduling, planning, operation, finance, and administrative computer applications in the school setting.

PED 330 Motor Learning and Development (4-0-4). This is an introductory course in motor learning and motor development. Emphasis is placed on utilizing basic knowledge of the developmental and learning processes for more effective understanding as to why and how children and adults learn and perform motor skills.

PED 415 Evaluation in Physical Education (3-0-3). This is the study of the purpose, selection, construction, administration, and evaluation of tests for assessing physical fitness, motor ability, and sport skills. Basic descriptive statistics are used to organize and interpret test scores. Laboratory sessions focus on test administration and statistical analyses.

PED 430 Psychosocial Aspects of Physical Activity (4-0-4). This course provides an overview of the fields of sport and exercise psychology and sport sociology. The content focuses on psychological variables (e.g., personality, motivation, achievement anxiety), sociological variables (e.g., environmental influences, group processes) and educational strategies for enhancing health and well-being through sport and exercise. Societal influences on sport (e.g., race, gender, economics) are explored to provide a better understanding of the relationships between sport and society.

PED 435 Physical Education for Students With Disabilities (3-2-4). This is the study of the rationale underlying the provision for physical-education programs for students with disabilities; organization, administration, and conduct of physical education programs for the most prevalent types of educational and medical conditions found in schools and agencies. It assists the student to develop placements that adhere to the doctrine of the least-restrictive environment. It includes clinical experiences.

PED 439 Therapeutic Recreation and Disability Sports (3-0-3). This is the examination of leisure/recreation services available for individuals with disabilities; study of impact of federal legislation on the provision for and accessibility of diverse recreational opportunities including high risk, adventure activities; and analysis of elite sport opportunities for individuals with disabilities including the study of national governing bodies that are responsible for the competition with emphasis on the International Paralympic Movement.

PED 440 Modes and Models in Physical Education (3-2-4). Prerequisites: EDB 200, EDB 300, EDB 301, EDB 302, EDL 305, PED 301, PED 302 with grades of C or better; admission to teacher education; 2.50 overall grade point average, 2.75 grade point average in professional and major coursework. Strategies for instructional planning, implementation, and assessment of physical education programs are presented and analyzed within the context of the multi-age learning setting. The course also includes development of the following components: goals and objectives, teaching learning maps, functional assessments, learning experiences, teaching templates, and student learning formats. Emphasis is placed on the development of a variety of strategies for maximizing learning and effective teaching. The course includes clinical and field teaching experiences.

PED 445 Gateway to the Profession: Communication and Collaboration (3-0-3). Prerequites: Concurrent with student teaching (PED 483). This is a course that brings closure to the accrued knowledge and skills relating to all aspects of

teaching. The emphasis in course work focuses on the practical application of the information in public or private educational settings. It is taken during the student-teaching semester.

PED 450 Psychology of Sport and Exercise (4-0-4). The course reviews research in the areas of sport and exercise psychology. The major theories and research approaches in these areas are explored with a focus on quantitative, qualitative, and applied research in the field.

PED 454 Sport Sociology (3-0-3). The course examines the effects of social change on the structure and function of sport. Itexplores the popular concept that sport mirrors society through topics such as sport and politics, economics, racism, sexism, violence, deviance, youth sport, academics integrity and sport, and the impact of media on sport.

PED 456 Individualized Physical Education for Children with Special Needs (3-2-2). This is the study of evaluative procedures used to identify the unique needs of students with disabilities in physical education; and the development of annual measurable goals and benchmarks for helping students acquire motor skills. It enables special educators to establish themselves as resource persons. The course includes a clinical experience.

PED 461 Sport Governance (3-0-3). The course examines the organizational goals, structure, membership, policies, and practices of international and American professional and amateur sports. Emphasis is placed on the Olympic Movement, including the International Olympic Committee, international sports federations, and the national governing bodies. Other sport organizations under exploration include the United States Olympic Committee, the National Collegiate Athletic Association, and American professional individual and team sports.

PED 465 Law and Policy Studies in Sport and Physical Education (4-0-4). This is an overview of the legal and social policy issues most often encountered in sport and physical activity, with emphasis on tort and selected areas of constitutional, commercial, contract, labor, and intellectual property law. The law is applied to the amateur and professional sport environments, recreation and leisure activities, and to instruction and rehabilitation. Leading court decisions are explained and guidestudents in an in-depth study of their choice and a comprehensive risk management presentation.

PED 466 Sport Facility Management (3-0-3). The course provides an overview of sports facility planning and management, and the relationship between sport stadiums and professional sports. Planning, design, construction, operation, maintenance, security, scheduling, marketing, evaluation, and crowd and risk management of facilities are presented in detail.

PED 467 Sport Marketing (3-0-3). The course explores the nature and theories of sport marketing. Emphases are placed on the principles of sport product marketing and the interrelationship among product, place, price, promotion, and public relations. Other aspects include the relationship between the marketing mix and consumer behavior, corporate sponsorship, marketing research, and the promotion mix.

PED 470 Exercise Testing and Prescription (3-0-3). This is the study of the principles of physical fitness and conditioning programs. It focuses on methods to enhance physical fitness and/or sport performance for a variety of individuals including athletes and clinical populations. Practical experience in assessing physical fitness is obtained.

PED 471 Biomechanics of Sport and Fundamental Skills (3-0-3). Biomechanics, the study of human movement, focuses on balance, buoyancy, leverage, force, angles of rebound, projectiles, motion, and kinesthesis. They are used to analyze fundamental movement and create specialized sports skills. These factors are related to learning theory, coaching techniques, and individualization of instruction. The course, designed to accommodate persons new to biomechanics, enables sport management personnel to recognize efficient movement in visual media and to describe sport skills accurately. Coaches and teachers learn to identify error in sport skills.

PED 472 Physiology of Aging (3-0-3). This course is designed to develop an understanding of the physiological, social, and emotional changes which accompany the aging process. Emphasis is placed on evaluation of physical, sensory, motor, and cognitive changes which accompany aging. Special attention is paid to developing programs for the elderly in exercise, prevention of falling, improvements in strength, and sense of well-being.

PED 477 Prevention and Rehabilitation of Cardiovascular Disease (3-0-3). This is an overview of the methods by which coronary artery disease may be prevented and rehabilitated. Topics include disease process, diagnostic

techniques, risk factor modification, electrocardiographic interpretation, exercise testing, and prescription. Program planning and design are addressed with emphasis on policy and procedure.

PED 480 Internship and Senior Seminar (0-16-8). Prerequisites: Senior status and permission of department chair. This is specialized field experience in an appropriate setting that provides extensive exposure for the sports manager or exercise/fitness specialist. It includes the development of a professional portfolio and required seminars.

PED 481 Internship and Senior Seminar (0-24-12). Prerequisites: Senior status and permission of department chair. This is specialized field experience in an appropriate setting that provides extensive exposure for the sports manager or exercise/fitness specialist. It includes the development of a professional portfolio and required seminars.

PED 483 Student Teaching – Physical Education Multi-Age (0-20-10) . Prerequisites: Prior on-line application to the Office of Field Services is required; must be taken concurrently with PED 445. This is a university-supervised student-teaching experience in two separate educational settings to provide both pre k-8 and 9-12 classroom experience. It involves observation and teaching physical education under a mentor teacher's direction, five full days per week for one semester. It is required for multi-age teaching licensure in physical education.

PED 493 Special Topics in Sport Education (2-0-2 to 4-0-4). This is the study of current topics of interest in the discipline of sport and sport education. Specific topics and hours will be based on analysis of need at the time each course is scheduled and may include such topics as motivating students in physical education, applying sport psychology strategies to enhance performance, the emerging role of women in sport, and improving exercise adherence.

PED 496 Individual Projects in Physical Education (1-0-1). Prerequisite: Permission of department chair. This is an independent project in a selected area of physical education. The project must be approved by and arrangements made with permission of project supervisor and department chair. It may be repeated for a maximum of four hours.

PED 497 Individual Projects in Physical Education (2-0-2). Prerequisite: Permission of department chair. This is an independent project in a selected area of physical education. The project must be approved by and arrangements made with permission or project supervisor and department chair. It may be repeated for a maximum of four hours.

Physical Education Service Courses

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Course Descriptions

PES 101 Physical Fitness (0-2-1). The course focuses on principles of physical fitness, risk factors for cardiovascular disease and how to avoid/overcome them through weight control, exercise, and nutrition. Students work to improve personal fitness levels and develop individualized fitness programs for future participation.

PES 102 Physical Fitness Orientation (1-2-2). This is an introduction to personal fitness programs with emphasis on measurement, evaluation, and the development of physical fitness and positive long-term fitness attitudes.

PES 104 Jogging (0-2-1). This is an introduction to techniques, principles, and benefits of jogging.

PES 105 Weight Training (0-2-1). This is an introduction to techniques, principles, and benefits of weight training.

PES 106 Walking for Aerobic Fitness (0-2-1). This is designed to progressively develop cardiorespiratory endurance by walking. Individuals who are at below-normal physical fitness levels will benefit most. Regular walking outside of class is required.

PES 107 Cross-Training (0-2-1). This is a program of fitness activities that stresses cardiovascular aspects of training. Emphasis is placed on the use of several sports for the purpose of training for one specific sport. Whole-body fitness includes strength, flexibility, and anaerobic power.

PES 108 Muscle Madness (0-2-1)). This class involves resistance training to music; athletic movements work all major muscle groups; pre-choreographed routines use high repetitions and low weights to increase muscle endurance and strength. It is conducted off-campus at the Downtown YMCA.

PES 109 Distance Running (0-2-1). Prerequisite: Ability to run continuously for 30 minutes. This course is intended for the person who has progressed through the beginning stages of jogging and running. Knowledge and abilities are expanded with respect to the physiological and psychological changes that occur for the distance runner.

PES 110 Basketball (0-2-1). This is an introduction to basic rules of basketball and fundamentals of team play; emphasis is placed on individual skill development.

PES 111 Volleyball (0-2-1). This is an introduction to basic rules and concepts of coed volleyball; emphasis is placed on individual skill development.

PES 112 Intermediate Volleyball (0-2-1). This course is designed to give the volleyball enthusiast an opportunity to explore advanced skill techniques of the game. Focus is on the development of strategies that apply to the game of "Power Volleyball."

PES 113 Personal Training Instructor (0-2-1). Three certifications are earned in this intensive fitness class: CPR, principles of YMCA health and fitness, and YMCA personal training instructor. Learn how to properly use cardiovascular and strength (free weights and selectorized) equipment, set up workouts for others, effective goal setting, and communication strategies. It includes muscle anatomy and physiology, practical sessions with various equipment, and case studies. Textbooks and manual are required at additional cost.

PES 114 Relaxation Training (0-2-1). The course is designed to assist students in understanding the impact of stress on their lives, recognizing early warning signs of stress, and developing strategies to reduce levels of stress and tension. Course focuses on the variety of techniques used to achieve a state of attentive relaxation.

PES 115 Spinning I (0-2-1). This is a beginning stationary cycling program. Learn how to properly use the bike and manipulate it to create a challenging workout. Experience a journey of flat roads, sprints, jumps, uphill climbs, and downhill runs. Motivational music is used to get into the rhythm of the ride.

PES 116 Spinning II (0-2-1). This is an intermediate stationary cycling program. Learn how to properly use the bike and manipulate it to create a challenging workout. Experience a journey of flat roads, sprints, jumps, uphill climbs, and downhill runs. Motivational music is used to get into the rhythm of the ride.

PES 117 Rock Climbing (0-2-1). Experience "free climbing" and "bouldering" in an indoor rock environment; basic climbing and movement techniques; belay techniques and basic climbing-specific knot tying; become belay certified; additional fee required; conducted at CSU rock wall facility and off-campus at Cleveland Rock Gym.

PES 118 Intermediate Wallyball (0-2-1). This is an introduction to the basic rules and concepts of coed wallyball (similar to volleyball except played in a racquetball court); emphasis is on refinement of skills of the game of volleyball.

PES 119 Field Hockey (0-2-1). This course is designed to develop fundamental skills and knowledge of rules, game-play strategies, and skill techniques in the game of field hockey; game-specific physical conditioning is also emphasized.

PES 120 Beginners Swimming - Level 1-4 (0-2-1). This course is for both the non-swimmer and low-skilled swimmer; it includes Red Cross beginner and advanced beginner training.

PES 121 Intermediate Swimming - Level 5-6 (0-2-1). This course is for the individual with middle-range swimming skills; it is based on the Red Cross learn-to-swim format.

PES 122 Swimmers - Level 7-8 (0-2-1). This course is for the individual who has mastered the middle-range swimming skills and who wishes to develop greater swimming competency; it based on the Red Cross learn-to-swim format.

PES 123 Synchronized Swimming (0-2-1). This is an introduction to basic stunts of synchronized swimming; emphasis is placed on individual skill development.

PES 125 Water Exercise Certification (1-2-2). Prerequisite: Certification as aerobics instructor, life guard, or Water Safety Instructor (WSI). This course involved the development of skills and knowledge to create and instruct safe and effective water aerobic/exercise classes; preparation for becoming certified by the Aquatic Exercise Association.

PES 126 Lifeguard Training (1-2-2). Prerequisites: Swim 500 yards continuously performing at least 50 yards each of the front crawl, breast stroke, side stroke, lifesaving stroke, elementary backstroke; surface dive to 9 feet and retrieve 10-pound brick; surface dive to 5 feet and swim 15 feet underwater; and tread water for 1 minute. This is the regular Red Cross course leading to certification in lifeguard training. Standard First Aid and CPR must be current by conclusion of course.

PES 127 Water Safety Instructor (-1-2-2). This course involves instruction leading to Red Cross Water Safety Instructor certification. Emphasis is placed on the development of swimming skills and methods of organization, teaching, and skill analysis of swimming programs.

PES 128 Aquatic Fitness (0-2-1). Prerequisite: Intermediate swimming skills. The course focuses on principles of physical fitness applied to aquatic activities. Students work to improve personal fitness levels through swimming and other activities in the pool.

PES 130 Beginning Springboard Diving (0-2-1). This is basic diving instruction from both the one- and three-meter boards.

PES 132 Skin Diving (0-2-1) Prerequisites: Swim 50 feet underwater, perform survival float 20 minutes, tow an inert swimmer 40 yards, swim 300 yards in a maximum of 10 minutes. This is an introduction to the safe handling of mask, fins, and snorkel, and the related underwater environment.

PES 134 Scuba Diving (1-2-2). Prerequisites: Swim 75 feet underwater, perform survival float 20 minutes, tow an inert swimmer 50 yards, swim 400 yards in less than 10 minutes, permission of instructor only. This is an opportunity to learn safe skin- and scuba-diving skills. N.A.U.I. and Y.M.C.A. certification are available upon successful completion of course work plus additional open water tests. Additional fee is charged.

PES 136 Canoeing and Small Crafts (0-2-1). This course is designed for gaining knowledge of small craft safety and acquiring practical experience in the proper handling of small crafts; emphasis is placed on canoeing. Previous minimum background through Red Cross Intermediate Swimming is recommended.

PES 138 Basic Sailing (0-2-1). This course is offered in conjunction with American Red Cross. It provides hands-on experience in boat handling, points of sail, types and classes of boats, sails and rigging, required and recommended equipment, safety and rescue techniques, artificial respiration.

PES 140 Modern Dance I (0-2-1). This is an introduction to the fundamental theories and skills of modern dance. It may be repeated for up to 4 hours.

PES 141 Modern Dance II (0-4-2). This is the continued study of the fundamental theories and skills of modern dance. It may be repeated for up to 8 hours.

PES 146 Jazz Dance I (0-2-1). This is an introduction to the fundamental theories and skills of jazz dance. It may be repeated for up to 4 hours.

PES 147 Tap Dance I (0-2-1). This is an introduction to the skills, rhythms, and stylization of tap dance.

PES 148 Tap Dance II (0-2-1). This course is expanding on previous techniques of Tap Dance I with emphasis on complex phasing.

PES 150 Ballet I (0-2-1). This is an introduction to the fundamental theories and skills of classical ballet. It may be repeated for up to 4 hours.

PES 151 Ballet II (0-4-2). This is the continued study of the fundamental theories and skills of classical ballet. It may be repeated for up to 8 hours.

PES 154 African Dance (0-2-1). This course focuses on performance, understanding, and enjoyment of West African traditional dance in order to develop a fundamental awareness and appreciation of it as an art form and its social and cultural contributions to society.

PES 156 Traditional Social Dance I (0-2-1). This is an introduction to the basic steps of various social dances, including the fox trot, waltz, jitterbug, polka, and cha-cha.

PES 157 Traditional Social Dance II (0-2-1). This course is the continued study of various social dances, including the fox trot, waltz, jitterbug, polka, cha-cha, and tango.

PES 158 Aerobic Jazz (0-2-1). This course includes basic jazz exercises and a variety of easy and fun-filled dance routines. Dances are combined into an aerobic framework (continuous rhythmic movement), warm-ups, high-level activity, and cool-down periods.

PES 160 Water Aerobics (0-2-1). This is a non-swimming aerobic and dance exercise class for adults of all age groups and activity levels. Taught in the shallow water, this course uses choreographed movements to provide toning, conditioning, and aerobic benefits along with aesthetic experiences and body awareness. The activity uses the water to cushion joints, neutralize gravity, and add buoyancy.

PES 162 Yoga I (0-2-1). This course involves comprehensive instruction in the three basic aspects of classical Yoga: exercise, correct breathing, and relaxation/meditation. Yoga theory, scheduling, stress management, and nutrition are discussed in relation to individual goals. American Yoga Association instructors.

PES 163 Yoga II (0-2-1). Prerequisite: PES 162. The course emphasizes the exercise portion of the curriculum and increasing the number and the difficulty of exercises while working within individual limitations; several new breathing techniques are also taught. American Yoga Association instructors.

PES 165 Self-Defense (0-2-1). This is the study of preventive measures and self-protection techniques.

PES 166 Beginning Fencing (0-2-1). For the beginner, this course focuses on the attack and defense techniques using the foil.

PES 167 Intermediate Fencing (0-2-1). Prerequisite: PES 166 or equivalent. This course involves further development of attack and defense techniques using the foil.

PES 168 Beginning Tae Kwon Do (0-2-1). This is an introduction to the traditional Korean martial art of self-defense, including basic principles of punching, kicking, striking, blocking, and practical self-defense skills. Rank/belt promotional test is available at the end of the course.

PES 169 Intermediate/Advanced Tae Kwon Do (0-2-1). Prerequisite: PES 168 or permission of instructor. The skills of the novice are developed through reinforcement of basic techniques. Advancement of rank/belt is possible at the end of the course.

PES 170 Aikido I 0-2-1). This is an introduction to this graceful, dancelike, and nonviolent Japanese art of self-defense, and includes study of the basic movement and tumbling skills, principles of centering, energy flow and focus, and blending of energies.

PES 171 Aikido II (0-2-1). Prerequisite: PES 170 or permission of instructor. This course involves the continued practice of the basic techniques and principles learned in beginning Aikido as well as the introduction of skills and techniques. Testing for rank is possible at the end of the course.

PES 174 T'ai Chi Ch'uan I (0-2-1). This is an ancient nonaggressive Chinese martial art which also serves as a form of moving meditation and exercise. There is a short-form course consisting of 33 movements which can be learned and understood in a semester session.

PES 176 Golf (0-2-1). This is an introduction to fundamental golf skills, rules, etiquette, equipment, and playing opportunities. Analysis of swing by instant video replay is used.

PES 178 In-Line Skating (0-2-1). The course covers basics to more advanced moves for both novice and experienced in-line skaters; street smarts, safety techniques, and how to care for equipment; training steps for in-line racing; students must supply own equipment.

PES 179 Cycling (0-2-1). The course covers basic riding techniques and essentials of training for mountain biking, touring, commuting, racing, or pleasure-riding; how to ride safely and confidently in traffic; meets the needs of the serious cyclists and those riding for fun and fitness. Students must supply own equipment.

PES 180 Badminton (0-2-1). The course designed for various levels of badminton skill with individual and group instruction in basic skills and strategies for singles and doubles play.

PES 182 Beginning Tennis (0-2-1). This is an introduction to the basic rules of tennis and fundamentals of singles and doubles play; emphasis is placed on individual skill development.

PES 183 Intermediate Tennis (0-2-1). This is the continuation of individual skill development with emphasis on technique and game strategy.

PES 185 Bowling (1). This course is for all levels of bowling skill from beginner on up; it is a programmed recreational activity conducted off campus.

PES 187 Beginning Squash (0-2-1). This is an introduction to the fundamental skills, knowledge, and values of the game of squash racquets including application of abilities in game situations.

PES 188 Beginning Racquetball (0-2-1). This is an introduction to the rules, strategies, and etiquette of racquetball; and an opportunity to play all four-wall variations of the game: singles, cut-throat, and doubles in a coed setting.

PES 189 Intermediate Racquetball (0-2-1). This course is designed to give the racquetball enthusiast an opportunity to explore advanced skill techniques of the game, focusing on the development of strategies for the improvement of a player's skill and understanding of the game.

PES 190 Tumbling and Trampoline (0-2-1). This is an introduction to skill techniques needed to perform basic moves on the mats and trampoline. Focus is on values and safety. Activities designed to develop body awareness and progression from simple to complex skills.

PES 195 Skiing (0-2-1). This course involves the development of knowledge and skills in beginner, intermediate, or advanced, intermediate snow skiing; it is conducted off campus. Additional fee is charged.

PES 198 Adapted Physical Education Programming (0-2-1). This course is offered to all students who, because of permanent or temporary disabilities, cannot participate in the regularly offered physical activity courses. Students are involved in activities designed to deal with their specific problems, and receive 1 hour for their efforts. It may be repeated for up to 8 hours.

PES 199 Special Programs (0-2-1). Prerequisite: Permission of department chairperson. This course is designed for the student who may wish, because of special interest, to receive hour for participation in recreational or sports activities not included in the courses listed above. Students wishing to receive hour for this must report to the Physical Education office to make arrangements for approval and verification of the activity. It may be repeated for up to five hours.

PES 240 Modern Dance III (0-4-2). Prerequisite: PES 141 or permission of instructor. This course is the further study of modern-dance theory and skill, with emphasis on increasing physical competence and understanding of underlying theory. It may be repeated for up to 8 hours.

PES 250 Ballet III (0-4-2). Prerequisite: PES 151 or permission of instructor. This is the further study of the theory and skills of classical ballet, with emphasis on increasing physical competence and understanding of underlying theory. It may be repeated for up to 8 hours.

Health Sciences Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: Susan Bazyk (Director, Master of Science in Health Sciences Program), Bette Bonder, Glenn Goodman (Director, Master of Occupational Therapy Program), Richard Rakos; ~~Steve Slane~~; **Associate Professors:** John Bazyk (Director, School of Health Sciences), Beth A. Ekelman (Associate Director, School of Health Sciences), John Jeziorowski, Andrew Lammers (Director, Bachelor of Science in Health Sciences Program), Mary K. Milidonis, Kathleen J. Pantano, Monica Gordon Pershey (Director, Speech and Hearing Program), Todd Pesek, Ann Karas Reinthal, Tony Sahley, Amee Shah; **Assistant Professors: Ana Begovic-Juhant, Deborah Espy,** Michael Hammonds, Stella Iwuagwu, Barbara Prakup; **Clinical Assistant Professors:** Karen Vitak, Robin Chilton; **Adjunct Assistant Professors:** Susan Levy Wayne, Karen O'Loughlin (Director, Doctor of Physical Therapy Program); **Adjunct Clinical Faculty:** Therese Lynch, Sue Ann Neff, Taya Neuman, Myrita Wilhite; **College Lecturers: Violet Cox,** Sam Mathew.

Course Descriptions

HSC 180 Introduction to Gerontology (3-0-3). This course provides an overview of the demographics of aging, the social, biological, psychological, and functional experience of aging, the concept of successful aging, and the careers available in working with older adults. Cross-listed with PSY 180.

HSC 200 Introduction to Health Sciences (3-0-3). This course addresses health sciences as a coherent group of disciplines concerned about the functional health of the individual. It focuses on several topics including areas of concern and study in health sciences, service delivery, the nature of the services provided, opportunities within selected fields, the relationship of each field with other related fields within the health sciences, and the impact of changes in health-care delivery on these fields.

HSC 201 Culture and Human Sexuality (3-0-3). This course examines the influence of cultural values and beliefs on sexual practices; provides an overview of sexual biology; and considers the ways in which culture affects sexuality, sex education, and reproductive practices. Cross-listed with ANT 221.

HSC 203 Medical Terminology (1-0-1). This online course offers a systematic approach to understanding medical terminology. The focus is to enable students to use this specialized language in a professional health care environment and in scholarly and professional writing. The course is designed to meet the prerequisite requirement for admission to professional programs in the health sciences.

HSC 220 Infant Health and Development (4-0-4). This course focuses on human development in the first three years of life. It examines normal developmental and health-promoting factors for the prenatal and 0-to 3-year periods. Among the topics covered are intellectual, social, emotional, and physical growth processes. The course also explores the psychological, social, and cultural influences on infant development, including risk and protective factors for infant health. It also examines factors related to optimal infant development, and the broader social implications of development in the first three years of life.

HSC 305 Culture and Health Care (3-0-3). Prerequisites: One of any of the following courses: HSC 200 (Introduction to Health Careers); ANT 100 (Human Diversity); PSY 101 (Introduction to Psychology); SWK 200 (Introduction to Social Work); SOC 101 (Introduction to Sociology); or permission of instructor. This course examines the ways in which culture

affects health and health care, including perceptions of health, disease, treatments, and the values associated with these factors. The need for cultural sensitivity in health care is stressed.

HSC 341 Environmental Health (3-0-3). Environmental Health is an introductory survey of environmental health concepts with an emphasis on toxic exposures, hazard identification, and management strategies. Offered online.

HSC 344 Social Issues in Health Care (3-0-3). This course examines social issues that influence health and illness through the study of disability and medical rehabilitation. Perspectives of health care practitioner, consumer, regulator, and investor are used to investigate control issues, mutual decision making, and socioeconomic inequalities.

HSC 345 Child Abuse and Neglect (3-0-3). This course examines current theory and research on the causes and consequences of child maltreatment. Using an interdisciplinary approach, the course explores the history and definition, parental and contextual influences, and the short- and long-term effects of child maltreatment. Contemporary medical, social, psychological, and legal issues are discussed.

HSC 346 Women's Health (3-0-3). This course examines psychological, social, and behavioral influences on women's health. It focuses on the interplay of lifestyle factors, and mental and physical health in women. Topics covered include high-risk health behaviors, stress, weight, sexuality, fertility, and promoting health and wellness among women. Emphasis is on understanding women's health from an interdisciplinary perspective.

HSC 381/581 Pathology (4-0-4). Prerequisite: A physiology course or permission of instructor. This course provides a survey of health conditions as well as the management of common disorders. The continuum from optimum to compromised health states are discussed relative to specific conditions. Common models of conditions that affect health are explored as related to medical management. A discussion of specific disorders and related management is organized according to their etiology, epidemiology, pathophysiology, clinical manifestations, and management as applicable to patients with commonly occurring disorders.

HSC 393 Selected Topics in Health Sciences (1 to 6 credits). Selected, variable topics in health sciences are investigated. The capstone project requirement is listed under this course and identified by section title and number.

HSC 407/507 Basic Pharmacotherapeutics (2 or 3 credits). Prerequisites: Pathology and Physiology or equivalent; Cell Biology, Organic Chemistry, and Biochemistry are recommended; or permission of Instructor. This course is an upper level introduction to the basic principles of pharmacotherapeutics and pharmacologic intervention as applied to rehabilitative therapeutic management of clients/patients across the lifespan. The course focuses on the mechanisms of drug action and interaction, observable clinical signs and symptoms that may impact appropriate rehabilitative therapeutic management, and the proper role of pharmacotherapeutics in the overall plan of patient care.

HSC 408/508 Clinical Hematology (4-0-4). Prerequisites: Microbiology, Histology, Cell Biology, or permission of Instructor. This course provides an in-depth study of the fundamental molecular, cellular, and systems-based human physiologic and pathophysiologic concepts, as they apply to the study of the elements of blood and blood producing tissues. Clinical principles applicable to testing, evaluation, and therapeutic intervention across the lifespan and in altered states of wellness are considered.

HSC 422/520 Physiology for the Clinical Sciences (4-1-4). Prerequisites: A biology course with lab at or above the 200 level and upper-class standing, or permission of instructor. This course is an in-depth study of the fundamental molecular, cellular, and systems-based physiologic concepts as they apply to homeostasis, and as they relate to aspects of health, adaptation, and rehabilitation. Physiologic principles applicable to testing, evaluation, and therapeutic intervention across the lifespan and in altered states of wellness are considered. Students complete in-class and virtual lab assignments. Lab ee.

HSC 426/526 Functional Performance of Older Adults (3-0-3). Prerequisite: Undergraduate course in introductory psychology. Assessment and intervention designed to assist older adults to accomplish daily activities, including individual, social, and environmental factors.

HSC 438H Honors Independent Research I (2 credits). Prerequisites: Health Sciences Honors Program Status, HSC 484. This course facilitates implementation of supervised individual or group research. Students admitted to the Health

Sciences Honors Program meet with their adviser and implement a research project proposed and approved in HSC 484 (Advanced Research and Writing in Health Sciences).

HSC 439H Honors Independent Research II (2 credits). Prerequisites: Health Sciences Honors Program Status, HSC 484 and HSC 438H. Students prepare and submit a manuscript describing their honors research and participate in a research symposium in which they present their projects to and field questions from the Health Sciences Honors Committee, faculty, students, and community participants.

HSC 440H Honors Cooperative Education Career Experience (2-4 credits). Prerequisites: Health Sciences Honors Program Status, CSC 321; one approved Honors Contract Course and one approved graduate HSC course; or two approved HSC graduate courses applied toward Honors Clinical Cooperative Education Track. Students complete a departmentally approved clinical cooperative education experience and an analysis of relevant literature supporting the student's clinical track experience. Approximately 2 hours on-site for each credit hour per week. There is a web-discussion component to this course.

HSC 441H Honors Cultural Competency Cooperative Education Experience (2-4 credits). Prerequisites: Health Sciences Honors Program Status, CSC 321; HSC 505; one approved contract course toward Honors Cultural Competency Track. Students complete a departmentally approved cultural competency cooperative education experience and develop an innovative, creative, or research-based response to the experience connecting theory and practice, and demonstrating interpersonal and/or cultural competence. Approximately 2 hours on-site for each credit hour per week. There is a web-discussion component to this course.

HSC 448 Palliative Care (3-0-3) This course provides an overview of the purposes of palliative care and the roles of health care professionals in providing effective end-of-life interventions.

HSC 457 Human Gross Anatomy Laboratory (0-4-2). Co-requisite: HSC 475 or permission of instructor. Laboratory sessions include dissection of human cadavers, examination of human skeletal material, and anatomical models. Lab fee.

HSC 467/567 Practicum in Gerontology (1-0-1). Prerequisite: Undergraduate course in introductory psychology; course to be taken with HSC 426/526 or by permission of instructor. This course involves shadowing and discussion of observations in community-based gerontology settings.

HSC 475 Human Gross Anatomy (4-0-4). Prerequisites: A biology course with lab at or above the 200 level and upper-class standing; or permission of instructor. Co-requisite: HSC 457. This course involves detailed dissection and examination of the back, upper extremity, lower extremity, trunk, and internal structures with an emphasis on function.

HSC 476/577 Neuroscience Systems (4-0-4). Prerequisites: A physiology course with lab at or above the 200 level or equivalent and upper-class standing; or permission of instructor. Co-requisite: HSC 478. This course is a study of the structure and function of the human central and peripheral nervous system including vascular components and special senses.

HSC 478/578 Neuroscience Lab (0-2-1). Co-requisite: HSC 476. Laboratory sessions include human nervous system material in the course atlas, human brain dissections, slides, overheads, and anatomical models. Lab fee.

HSC 483 Writing in Health Sciences (2-0-2). Co-requisites: Must be concurrently enrolled in any 300-400 level health sciences course except courses that are approved independently as writing across the curriculum. Prerequisite: Permission of instructor. This course is designed to enhance the writing skills of students, especially with respect to conceptual papers according to APA or AMA format. The instructor, in consultation with the student, will determine the topic of the written report. May be taken multiple times; limit one per semester.

HSC 484 Advanced Research and Writing in Health Sciences (5-0-5). Prerequisites: Junior standing; MTH 147 or PSY 311 or permission of instructor. This course is designed to facilitate understanding of methods of inquiry in health sciences, including quantitative and qualitative methods for gathering and analyzing data and critiquing and interpreting research. It also covers theory, design, and basic statistics involved in survey and experimental research. Students complete a research grant proposal and scholarly presentation.

HSC 486 Cooperative Education Career Experience (0-6-3). Prerequisites: CSC 321, HSC 200, 203, 305; PHL 240 or equivalent; or permission of instructor. Health Sciences major; junior or senior status, pursuing a certificate administered by Health Sciences. The focus of the cooperative education career experience is to provide the Health Science major or certificate student with an opportunity to participate in an engaged learning experience that will enhance knowledge relevant to his or her career focus. This experience is also designed to promote and develop professional behavior, oral communication skills, and critical thinking, allowing the student to apply important concepts learned in the major.

HSC 488 Complementary and Alternative Medicine (3-0-3) Prerequisite: HSC 305 Culture and Healthcare, its equivalent, or permission of instructor. An introductory survey examining Complementary and Alternative Medicine (CAM) - its historical and cultural roots and current application in western contexts. Students will demonstrate an understanding of a variety of CAM approaches and explore their application in both traditional and nontraditional healthcare settings. Using research evidence, students will critically analyze CAM and its applications throughout the course and in a final research project.

History Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: David J. Goldberg, Elizabeth A. Lehfeldt (Chair); **Professors Emeriti:** David Adams, Donald Ramos; **Associate Professors:** Gregory Conerly, Thomas Humphrey, Joyce Mastboom , Robert S. Shelton, Karen Sotiropoulos, J. Mark Souther, Mark T. Tebeau, Laura Wertheimer, Regennia N. Williams, **Associate Professors Emeriti:** Thomas L. Hartshorne, Lee Makela; Deborah L. Pearl**,** Robert A. Wheeler, **Assistant Professors:** Stephen Cory, Wenqing Kang, Meshack Owino, José Solá, Kelly Wrenhaven.

Course Descriptions

HIS 101 Western Civilization I (4-0-4). History of western civilization to 1648, with emphasis on Greek and Roman civilization, the medieval world, the Renaissance and Reformation, and the transition to the modern era.

HIS 102 Western Civilization II (4-0-4). The history of modernization in the West, including the development of rationalism and scientific thought, and the upheaval of the French Revolution. Emphasis on the growing inter-relatedness of Europe with the rest of the world as a result of industrialization, the nation-state, and imperialism, culminating in the 20th century with World Wars and the search for an international order.

HIS 110 United States History Survey – Discovering Freedom in America (4-0-4). This course gives students an understanding of significant themes and ideas that shape our changing notion of freedom, independence, and citizenship. These historical concepts fundamentally influence how we view the inhabitants of North America from the fifteenth century through the end of the twentieth century. This course investigates how those people changed the meanings of these ideas, expanding and contracting them at various points to uncover what they mean today.

HIS 111 United States History to 1877 (4-0-4). A study of the settlement of the Colonies and the transplanting of European institutions to the Western hemisphere, the achievement of American independence, the formation of the American government, the beginnings of industrialism, and the social and political conflicts leading to the Civil War.

HIS 112 United States History Since 1877 (4-0-4). A study of principal developments in American history from reconstruction of the South to the present, including post-Civil War conflict; Western expansion; agricultural, and industrial development; progressive reform and the New Deal; and domestic and foreign policies since World War II.

HIS 165 Introduction to Latin American History (4-0-4). Survey of Latin American history from its colonization to the present time. Examination of various facets of Latin America, including politics, economy, and culture.

HIS 175 Introduction to African History (4-0-4). Examination of the cultural history of African societies from before the present era through the past 2,000 years, with an emphasis on the ways in which Africans resisted European cultural hegemony and defined for themselves distinctive, modern African cultures.

HIS 185 Survey of Middle Eastern History (4-0-4). Survey examines Middle Eastern history from the great kingdoms of the pre-Islamic past to the troubling events of recent years, with a concentration upon the formation of the modern Middle

East. The course will analyze recurrent themes, examine key problems in Middle Eastern history, investigate a wide variety of primary sources, and discuss critical issues that led to the creation of the modern Middle East.

HIS 195 Introduction to East Asian History (4-0-4). This course will offer a survey of East Asian history, primarily focusing on the political, social, economic, and cultural developments in China, Japan, and Korea from the 17th century to the present..

HIS 200 Introduction to Geography (4-0-4). A comprehensive survey of the field of geography as it relates to the study and teaching of social studies and history. Course provides a general overview of a number of approaches useful to the study of history such as Historical Geography, Economic Geography, Environmental Geography, and World Regional Geography. Course serves as an introduction to basic geographical concepts within the context of social studies.

HIS 201H Urban America in the Last Half of the 20th Century: Crises/Opportunities/Solutions - Cleveland - Honors (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course will explore the dynamic changes which altered the economic, social, political and cultural context of Cleveland since 1945. It will analyze why and how the city responded to the challenges and opportunities it faced through the eyes of participants. Students will use newspapers, television news archives, manuscript collections, and interviews with the participants themselves to determine why some options were taken and others rejected. The course will be especially conscious of the increasing significance in both numbers and influence of African-Americans.

HIS 215 History of African-Americans to 1877 (4-0-4). A topical survey of the African-American Experience from Africa through the enslavement in the Americas to the end of the post-Civil War reconstruction with special emphasis placed on the acculturation and enslavement processes, including a detailed study of the history of the institution of slavery.

HIS 216 History of African-Americans Since 1877 (4-0-4). Further emphasis placed on the rise of African-American institutions in America; the church, the press, newly free African-Americans in the South; the aftermaths of the abolitionist movement, the Civil War, and Reconstruction.

HIS 227 Power, Authority, and Society in Nonwestern Communities (4-0-4). An examination from an historical perspective of the way selected groups of Asian, African, and Latin American societies organize themselves with respect to power and authority to cope with a set of similar social problems. Attention will also be given to how changes take place in political organization and in political cultural identity, particularly at the mass level. The course makes extensive use of popular texts and stories, photographs and video, and other primary sources from the cultures studies. Cross-listed with ANT/PSC 227.

HIS 271 Empire's End: British Asia. (4-0-4). This course will focus on the end of the British Empire, the part that was Asia. The main focus will be on South Asia, especially the emergence of the independent nations of India and Pakistan. We will more briefly consider some other new nations of South Asia, in particular Sri Lanka and Bangladesh. Our focus will then move to China and the colony of Hong Kong. We will also study the British withdrawal from Burma, the collapse of Malaya, and the emergence of Malaysia, Singapore and Brunei. At the end, we will consider what the process of decolonization meant both for the new nations and for Britain.

HIS 271H Empire's End: British Asia - Honors. (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course will focus on the end of the British Empire, the part that was Asia. The main focus will be on South Asia, especially the emergence of the independent nations of India and Pakistan. We will more briefly consider some other new nations of South Asia, in particular Sri Lanka and Bangladesh. Our focus will then move to China and the colony of Hong Kong. We will also study the British withdrawal from Burma, the collapse of Malaya, and the emergence of Malaysia, Singapore and Brunei. At the end, we will consider what the process of decolonization meant both for the new nations and for Britain.

HIS 272H Cultural Interactions: The Japanese Experience - Honors. (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. The course will first discuss elements constituting the core of the Japanese culture, both traditional and modern, then focus on influences exerted on Japan by China and Korea beginning in the fifth century and from Europe and the United States after the mid-nineteenth century. The concluding portion of the course will examine influences by Japanese popular culture on both Asia and the West.

HIS 274 Introduction to the Middle East (4-0-4). This course is designed to introduce students to the history, religious diversity, political systems, economy, and culture of the Middle East. The course includes a brief examination of ancient

Middle Eastern civilizations and its history to the world. The course also examines important historical junctures influencing the region today. It will include the contents, similarities, and diversities of Middle Eastern culture. The course examines three monotheistic religions and how Middle Easterners vary widely in their religious beliefs. It explores how this religious variance impacts Middle Eastern culture. The course introduces students to multiple aspects of the arts. Cross-listed with ARB 274 and PSC 274.

HIS 301 American Cultural History, 1865 to the Present (4-0-4). Study of the social and cultural history of the United States, emphasizing the ways in which the beliefs, values, and world views of the American people are related to prevailing social conditions.

HIS 302 US Slavery, Abolition, & Politics, 1820-1860 (4-0-4). This course examines the American slave system of the nineteenth century, challenges to slavery, and the resulting political contest that eventually let to southern secession and civil war.

HIS 303 Recent U.S. Social History (4-0-4). Traces social change in the United States from the Civil War to the present with special emphasis on changes in social class formation, family, neighborhood, community, race, ethnicity, gender, and work. Traces major structural change in society, politics, and economy in relation to social transformations and impacts of technological change, urbanization and bureaucracy.

HIS 304 U.S. Urban History (4-0-4). Analysis of U.S. urban development with focus on spatial development of U.S. cities and changing internal structure and institutions of cities from the Colonial period through the mercantile, industrial, and post-industrial city. Traces the city's impact on migrants and others and their responses.

HIS 305 Social Thought of African Americans (4-0-4). Historical inquiry into the major social, cultural, and intellectual developments among Black Americans, including such movements as antebellum abolitionism, African immigrationism, cultural and political accommodation, and Pan-Africanism and Negritude as expressed in the writings of major authors.

HIS 306 History of Ohio (4-0-4). The early development of Ohio as a territory and a state, transportation problems and economic development, industrialization and urbanization and their economic and social consequences, and ethnic composition.

HIS 307 History of Cleveland (4-0-4). Origins and early development of Cleveland and the Western Reserve, emergence of Cleveland as a major industrial city, emphasis upon social economic, technological, cultural, and political developments with special attention given to the role of ethnic and minority groups.

HIS 309 American Immigration History (4-0-4). A survey of immigration to America from the 1830s until the present day. The course focuses on the religious, work, political, and cultural life of various immigrant groups as well as the process of adaptation and Americanization. The rise of anti-immigrant movements and efforts to restrict immigration are also emphasized.

HIS 310 Indians in American History (4-0-4). A study of Native American White contact since the Colonial period, emphasizing differences in cultural outlook, dispossession from Indian lands, changing political status of Native Americans, and the nature of missionary and governmental assimilation efforts. Attention will be given to the dynamics of cultural conflict and Indian response to assimilation policies.

HIS 311 Introduction to Public History (4-0-4). An introduction to the applied uses of history in such areas as museums, archives, labor, historical societies and community, as well as corporate and oral history. Considers ethical and professional issues, grant writing, evaluation of popular and professional history presentations, and careers in public history. Will involve practicum working on-site on a public history project.

HIS 312 17th-Century America (4-0-4). Analysis of the European background of the Age of Discovery; comparative settlement patterns in the New World of the French, Spanish, and English; and the social, political, economic, and intellectual changes which took place in the mainland colonies to 1740. Emphasis is on family and community development.

HIS 313 18th-Century America (4-0-4). Study of the American Enlightenment, the causes of the American Revolution, aspects of the War for Independence, the Confederation, and the Constitution of 1787.

HIS 315 Radicals and Reformers in 19th-Century U.S. (4-0-4). This course examines the economic, social, and political transformation of the United States in the nineteenth century. Topics typically include the rise of industrial capitalism and social and political responses such as abolitionism, sectionalism, the women's rights movement, labor activism, and Populism.

HIS 316 History of the American West (4-0-4). This course examines the significance of the Trans-Mississippi West in United States history from various interpretive perspectives. Topics include: nineteenth century exploration and settlement; impact of environment on evolution of western economies; race and ethnic relations; gender roles; the cowboy legacy; frontier violence; the West as myth and symbol; federal land and wilderness policies; the urban West; tourism and National Parks.

HIS 316H History of the American West (4-0-4) Prerequisites: Honors standing or permission of the University Honors Program. This course examines the significance of the Trans-Mississippi West in United States History from various interpretive perspectives. Topics include: nineteenth century exploration and settlement; impact of environment on evolution of western economics: race and ethnic relations; gender roles; the cowboy legacy; frontier violence; the West as myth and symbol; federal land and wilderness policies; the urban West, and tourism and national parks.

HIS 317 Civil War and Reconstruction, 1848 to 1877 (4-0-4). This course examines the causes, course, and consequences of the American Civil War and Reconstruction. Particular emphasis is given to slavery and sectional differences leading to the conflict; military and political events; the impact of the Civil War and Reconstruction on American society; the emancipation experiences of African-Americans; and the struggle to redefine freedom, nationalism, and citizenship during Reconstruction.

HIS 318 Black America and Africa (4-0-4). Course explores the ways that African Americans have “imagined home” by considering the relationship that peoples of African descent in the United States have held with Africa, and how that relationship has figured historically in the making of an "African American" identity. We will investigate the transformation of African identities in the "new world", the formation and transformation of racial nationalism and its relationship to the continent, as well as the connection between the US based freedom movement and African struggles for independence. Throughout the course we will define and redefine what is and has been meant by terms such as the "African Diaspora," "Cultural Nationalism," black trans-nationalism and "Pan-Africanism."

HIS 319 History of U.S. Tourism (4-0-4). This course considers the role of tourism in American society and culture from the early nineteenth to the early twenty-first century. It emphasizes how historical memory shapes tourist attractions and how tourism shapes local, regional, national, racial and ethnic identity.

HIS 320 U.S. Foreign Policy Since 1898 (4-0-4). This course covers U.S. foreign policy from the Spanish-American-Cuban-Filipino War through the Vietnam War. The greatest attention is paid to U.S. relations with European and East Asian nations through all the parts of the world including "realist" and "idealist" interpretations of U.S. foreign policy. All students are given an opportunity to conduct an independent research project of their own.

HIS 321 United States 1901 to 1939 (4-0-4). Rise and fall of the progressive spirit at home; the impact of World War I on the world and on the American people; economic, social, political, and literary survey of the Jazz Era; the economic consolidation and social fragmentation of the 1920s; the Great Depression.

HIS 323 Recent American History (4-0-4). Study of the major social, political, economic, and cultural events and their interactions in the United States since 1939. Major topics include World War II, the origins and impact of the Cold War, Vietnam, the civil rights movements, and other movements for social change in the 1960s.

HIS 324 Black Is/Black Ain't: Defining Black America (4-0-4). Explores the ways in which Americans of African descent have been defined historically by themselves and by whites. The social and political consequences of adopting these definitions are also examined. Topics covered include representations in law and popular/elite culture; racial thought and the rise and fall of slavery/Jim Crow; and self-definitions grounded in, among others, political and class differences.

HIS 325 Black America since 1945(4-0-4). This course explores the history of African American politics, communities, and culture in the U.S. since 1945. The content and central focus will vary with the instructor. Examples of course themes include the modern civil rights and black power movements; the black world and the Cold War; black popular culture; gender and sexuality in postwar African America; and black America in the African diaspora.

HIS 326 African American History Through Sacred Music (4-0-4). This course traces the history of African American sacred music from its African roots, through the nineteenth century spiritual to the twentieth century hymns, gospels and contemporary Christian compositions. This musical heritage will be analyzed within the larger context of African American social and cultural history, with an emphasis on understanding African American church culture as a buffer against racial and other forms of discrimination.

HIS 327 American Sexual Communities and Politics (4-0-4). Explores attempts by various groups to (re)define, regulate, and/or form communities around sexuality. The course's central theme differs each year. Topics include gay, lesbian, and bisexual histories and sexuality in the U.S.

HIS 329 Black Resistance in the Age of Jim Crow 1896-1954 (4-0-4). African Americans challenged white supremacy long before the emergence of the modern movement for civil rights. This course studies the politics of black resistance during the era of legal segregation-from Plessy vs. Ferguson (1896) to Brown vs. Board of Education (1954). Topics will include anti-lynching, the impact of rural to urban and southern to northern migration, unionization, Garveyism, communism, the roots of black power, and the ways that African Americans confronted the rise of a racist commercial culture.

HIS 330 History of Greece (4-0-4). A study of the development of civilization in ancient Greece from prehistoric beginnings until the death of Alexander the Great. Special emphasis will be given to the rise of democracy and its expression in Athens during the Age of Pericles. The nature, extent, and interpretation of ancient evidence for historical research will receive careful attention.

HIS 331 Rise of Rome (4-0-4). A study of the development of civilization in ancient Italy from prehistorical beginnings until the establishment of the Roman Empire by Augustus. Special emphasis will be given to the foundation legends of the city, and the civil disorders of the final century of the Republic to Empire. The nature, extent, and interpretation of ancient evidence for historical research will receive careful attention.

HIS 332 Byzantine History and Civilization (4-0-4). Course will examine the geography and the origins of Byzantium and explore the evolution of Byzantine history from the dedication of Constantinople in 330 to its fall in 1453. The course starts with a geographical and historical background that illustrates questions of historical continuity and processes of transformation. We will then proceed chronologically, focusing on the crucial historical junctions that influenced and shaped the region today. Students will become familiar with the sources of Byzantine history and understand the historical place allocated for Byzantium within World civilizations. This course will also give insights into Byzantine art architecture, literature, and theology.

HIS 333 Barbarians and Slaves in Ancient Greece (4-0-4) Examines the ideology of slavery in ancient Greece, with a specific focus upon Athenian evidence. It also considers how the Greeks perceived non-Greeks (barbarians), the most common victims of Greek slavery. Evidence examined will include representations of slaves and barbarians in Greek literature, epigraphy, and art.

HIS 336 Tudor and Stuart England 1450-1688 (4-0-4). The legacy of late-medieval feudal, and social disorder, the emergence of a sovereign state, the Reformation, the religious and constitutional settlements, the Wars of the Three Kingdoms, the Restoration, and the Glorious Revolution, are studied in the context of social and economic change.

HIS 340 The Roman Empire (4-0-4). The rise and decline of the Roman Empire from the age of Augustus to the end of the fifth century, including the development of Roman government, culture and society. Examines the growth of Christianity and the interaction of the later Empire with the "barbarian" nations, and their effects on the transformation of the western Empire into the late antique world and the early Middle Ages.

HIS 341 Early Middle Ages (4-0-4). Study of the political, social, economic, and intellectual life of Europe from the Fall of Rome to A.D. 1000, with emphasis on the Germanic invasions, the rise of Christianity, feudal society, and manorialism.

HIS 342 Late Middle Ages (4-0-4). European society and culture from 1000 to 1450, including patterns of thought, the founding of the universities, and the rise of cities and the feudal monarchies.

HIS 343 Social History of the Black Death (4-0-4). Examination of the changes created by the introduction and spread of the Bubonic Plague in a large population. Begins with examination of how diseases are socially, culturally, and

historically constructed, and then charts the impact of the plague in the first three centuries of its spread. Course analyzes social history of the period and how responses to disease intersected with other European wide developments.

HIS 344 The Renaissance (4-0-4). Study of the cultural life of western Europe from the 14th through the 16th centuries in its historical setting, with emphasis on Petrarch, Machiavelli, Galileo, and Erasmus through a study of their works; and a special concentration on Italy.

HIS 345 Church, State, and Society in Reformation Europe (4-0-4). Examines lay piety and institutions of the Catholic Church during the late Middle Ages, the rise of Protestant doctrines and faiths in 16th- and 17th-century Europe; analyzes impact among various social groups, cultural manifestations of religious upheaval, religious and political ambitions, and current movements of Christian humanism and Catholic and Counter-Reformations. Covers late 15th-century until 1648.

HIS 346 17th- and 18th-Century Europe (4-0-4). Examination of Absolutism and the European state system; the social and economic system of pre-industrial Europe; and the rise and decline of the principal powers, including Spain, the Low Countries, France, and Prussia.

HIS 349 France and the French Revolution (4-0-4). This course introduces students to the history of France in the 18th century and the Revolution of 1789. Examines social classes, the economy, intellectual changes, and various interpretations of the French Revolution and the debates surrounding them. Will also survey the Revolutionary and Napoleonic eras and their impact on Europe.

HIS 350 Golden Age Spain (4-0-4). This course examines the history of Spain from the late-medieval period through the 17th century from social, cultural, political, economic, and religious perspectives. Addresses key developments in Iberian peninsula including encounters with Americas, the rise of absolutism, and the Catholic and Counter-Reformations. Evaluates implications of historical interpretations of both Spain's "Golden Age" and its reputed "decline."

HIS 351 Social and Economic History of 19th-Century Europe (4-0-4). A study of economic change and social upheaval precipitated by the French Revolution and the industrialization and urbanization of Europe. Emphasis on social class structure, urban life and problems, workers' and middle-class responses to industrialization, and imperialism.

HIS 352 Political History of 19th-Century Europe (4-0-4). A survey of the political and diplomatic problems of post-Napoleonic Europe; the revolutions of 1848; Napoleon III and the Second Empire; problems of national unification in Germany, Italy, and Austria-Hungary; the Third French Republic; Russia's attempt to modernize; the Turkish Empire and Balkan nationalism; the coming of World War I.

HIS 353 20th-Century Europe, 1914 to the Present (4-0-4). Lecture and group discussion approach to some of the major cultural, social, political, and economic developments in Europe since 1914; social and cultural impact of two world wars; totalitarianism and the decline of empire; emphasis is placed on the Cold War and events since 1945.

HIS 354 European Women's History (4-0-4). Course will analyze variety of life experiences of European women from 1300 to 1700. Will consider methodological issues that have shaped recent practice of women's history, and will examine the variety of women's roles in late medieval and early modern society including religion, economy, culture, and politics.

HIS 356 History of European Fascism. (4-0-4). Course will examine social, cultural, economic, and racial aspects of radical Right Wing politics which made the Fascist movements such pervasive phenomena in Europe between the two world wars. The bulk of the course will be devoted to the Nazi and Fascist movements in Germany and Italy and to the development of racial ideology culminating in the Holocaust.

HIS 357 WWI: The Western Front (4-0-4). This course focuses on the social history of the Western Front during World War I (especially Belgium, France and Britain). It aims to go beyond statistics and battle reports and allow students to become immersed in the war experience of the combatants and non-combatants by reading history, novels, poetry, viewing films and images, listening to music, and through class discussion.

HIS 360 History of Russia to 1900 (4-0-4). Survey of political, social, economic, and cultural developments in Russia from the ninth century through the 19th century. Topics include the growth of the Russian autocratic state, evolution of institution of serfdom, position of the nobility, the emancipation of the serfs, formation of the intelligentsia, and the beginnings of the revolutionary movement.

HIS 361 History of Modern Russia (4-0-4). History of modern Russia and the Soviet Union, including the development of capitalism and industrialization, the revolutions of 1905 and 1917, the formation and evolution of the Soviet Union, Stalinism, the collapse of the Soviet Union, and recent developments.

HIS 362 Modern Eastern Europe (4-0-4). Social, political, and economic history of the peoples of Eastern Europe, excluding the former Soviet Union, from the late 18th-century to the present. Topics include nationalism, modernization, cultural diversity, significance in world history, Communism, and Eastern Europe after 1989.

HIS 364 Caribbean History to 1804: Conquest, Colonization, Slavery, and Revolution (4-0-4). Examination of Caribbean societies covering pre-Columbian civilization to the formation of the Haitian Republic in 1804; the development of plural societies, economic organization, role of slavery and culture.

HIS 365 Comparative Slavery (4-0-4). Examines the slave system which developed in the U.S. within the context of the Americas with particular attention to Brazil. Uses comparative approach to enrich understanding of ourselves and our society. Topics include slave trade, nature of the slave community and family life, relationship of slavery to race, religion and human and physical geography, and escape, rebellion and other forms of rebellion.

HIS 366 Colonial Latin America (4-0-4). Examination of Latin American societies covering pre-Columbian civilization to the Wars for Independence in the 19th century; the development of plural societies, economic organization, and culture.

HIS 367 Modern Latin America (4-0-4). Development of Latin American republics with emphasis on the 20th century; development of political and cultural nationalism, polarized societies, dependent economic systems, mechanisms of change, and relations with the U.S.

HIS 369 Comparative Emancipation (4-0-4). This course examines the process of emancipation in the Western Hemisphere and the experiences of former slaves during the transition to free labor. It focuses on the struggle of ex-slaves and ex-slaveholders to define freedom and on the changing ideas about race, racism and class. The United States emphasis within the broader hemispheric context will compare such topics as; self-emancipation, labor policies, and politics in the years after slavery.

HIS 370 World History (4-0-4). A general introduction to the study of global history focusing on the evolution of those factors such as immigration, disease, nationalism, religion, and the economic and political systems which have served to connect societies. The geographic and/or thematic focus may vary from term to term. Primarily aimed at students interested in social studies teaching.

HIS 371 History of Japan (4-0-4). A survey of political, economic, social, cultural, religious and intellectual life in Japan from the third century to the present day. Emphasis on the origin and development of traditional Japanese civilization before the impact of the modern West and the subsequent Japanese quest for international acceptance.

HIS 372 Early Modern Japan (4-0-4). A consideration of historical change during the Tokugawa Period (1600-1868) in Japanese history, an era considered both "late traditional" and "early modern." Examines the processes of urbanization and the growth of a monetary economy, changes in social organization, major cultural innovations, intellectual movements, and the emergence of a sense of national identity.

HIS 373 Contemporary Japan in Historical Perspective (4-0-4). Assesses aspects of contemporary Japanese civilization and culture from the perspective of historical influences on the philosophies, institutions, and values of modern society and culture.

HIS 374 20th Century China (4-0-4). This course will explore the history of China in the

twentieth century, focusing on the end of imperial rule, the sources and development of revolution, attempts at socialist transformation, and the course and consequence of economic reform. We will draw upon narrative history texts, biographies, memoirs, and films, as well as translations of original documents..

HIS 375 Pre-Colonial Africa to 1800 (4-0-4). This is a survey of important trends in the historiography of Africa to 1800. The course focuses on the emergence and evolution of African history; problems and challenges; sources and methods of reconstructing African history; and major debates in the history of Africa. It highlights some of the debates in African history by examining the Bantu migration; ancient African civilizations on the Nile Valley; medieval African kingdoms such

as Ghana, Mali and Songhay; Kongo; Ashanti Empire; Great Zimbabwe; and the East African coastal city-states. The Atlantic slave trade is positioned within the historical traditions of African and global history.

HIS 376 Modern Africa Since 1800 (4-0-4). Survey of sub-Saharan African civilizations from the demise of the Atlantic slave trade through the periods of European conquest and colonial rule, the nationalist struggle for independence, and postcolonial African states. Includes African perspectives on colonialism and neocolonialism, including social, economic, political, and cultural initiatives toward independence, modernity and an emerging role in global affairs.

HIS 377 History of Islamic Civilizations (4-0-4). A survey of the main themes of the development of religious, cultural, social, and political patterns in central Islamic areas from the seventh century A.D. to the present. Particular emphasis on development and spread of Islam, interactions with the West, and problems of modernization.

HIS 379 Collective Survival in the African Diaspora (4-0-4). Course considers the recent history, 1400 to the present, of the African Diaspora in the global community, with an emphasis on the social and cultural histories of African-descended peoples in the Americas. Students will examine recent scholarship on the African Diaspora and conduct their own research, using oral history interviews, archival materials, and other sources.

HIS 381 Class, Gender and Sexuality in China: 1700-Present (4-0-4). Course uses the categories of class and gender to explore three aspects of Chinese history: the cultural construction of gender and sexuality, the issue of modernity, nationalism and revolution, and the problem of building and partially dismantling a socialist state. It will draw upon poetry, memoirs, anthropological works, and products of popular culture as well as standard historical sources.

HIS 382 Origins and Consequences of Total War (4-0-4). Examination of the diplomatic history of the period 1870-1945 within the larger framework of European international relations surrounding the first and second world wars; special consideration is devoted to the role of domestic pressures in the formulation of foreign policy and the historical debates about the origins of both world wars.

HIS 383 The Making of Modern Southeast Asia (4-0-4). The focus of this course is Southeast Asia. The course will explore political, social and cultural change in modern Southeast Asia. We will consider anti-colonial resistance, war and its impact on the societies of Southeast Asia, nationalism, decolonization, and contemporary issues ranging from ethnic tensions, separatist movements, religious revival, migration, tourism and terrorism. Students should finish this course with a sense of the major historical events that have helped shape the eleven nations that make up Southeast Asia. That is, Indonesia; Malaysia, Singapore, Brunei, Thailand, Vietnam, Cambodia, Laos, Myanmar/Burma, the Philippines and Timor-Leste.

HIS 386 History of the Middle East to 1798 (4-0-4). This course examines the historical roots of the Middle East, from the earliest recorded information about its ancient civilizations to the dawn of the modern era, concluding with Napoleon's conquest of Egypt in 1798. In between, we will learn about the historical and cultural foundations established by the pre-Islamic empires and monotheistic faiths, the coming of Islam and the Islamic conquests, the heights of Middle Eastern civilization, the Crusades and Mongol conquests, the Gunpowder Empires, and the Ottoman Middle East. Although this is an upper-division class, no previous background knowledge of Middle East history is necessary.

HIS 387 Modern Middle East (4-0-4). This class examines the most important factors that influenced the development of the modern Middle East between the 18th through the 21st centuries. Subjects include colonial empires in the Middle East, the impact of Westernization and modernity, the establishment of nation states, the Israeli-Palestinian conflict, the Iranian revolution, Cold War politics, influence of oil, political Islam and terrorism, America's involvement, and the Middle East post 9/11. Although this is an upper-division class, no previous background knowledge of Middle East history is necessary.

HIS 390 Introduction to Social Studies (4-0-4). By focusing on issues of content, instead of pedagogy, the course prepares undergraduates to be social studies teachers by exposing them to a broad interdisciplinary perspective on the methods, approaches, skills, and content of the social sciences and History.

HIS 392 History of South Africa since 1900 (4-0-4). The course examines the history of South Africa from 1900 to about 1994. Particular emphasis on key issues in the making of modern South Africa such as race relations; the economy of South Africa; Afrikaner nationalism; the Apartheid system; African nationalism; and the coming of freedom to South Africa. The course also highlights the relationship between South Africa and its neighbors.

HIS 393 Special Topics in History (4-0-4). Analysis of crucial problems in history; topic will vary from semester to semester depending on the instructor. Course may be taken for credit more than once, but no single topic may be repeated. Topics will appear in semester course schedule.

HIS 400 Local History Seminar (4-0-4). The course explores the social, economic, political, and cultural history of Cleveland and northeastern Ohio from 1800 to the present. It uses primary materials to generate student research projects on a variety of selected topics. Specific topics vary from term to term.

HIS 401 History Seminar (4-0-4). This course guides students through the production of a major research paper that is synthesized, critical analysis of primary and secondary sources. Field and period to vary by instructor; course may be taken for credit more than once, but no single field and period may be repeated.

HIS 497 Readings in History (1 to 4 credits). Prerequisites: Written permission of instructor and chair. Tutorial or seminar work in special areas and subjects not part of the department's regular course offerings; arranged with an instructor on an individual or group basis for 1 to 4 credit hours. May be repeated for credit in a different subject area. History majors may not exceed a total of 8 hours in this course.

HIS 499 Internship (1 to 4 credits). Prerequisite: Written permission of internship coordinator. Interns work with experienced practitioners to develop public exhibits and research collections, design and guide public tours, or undertake other history-related projects. Interns gain invaluable career insights by learning how organizations research, collect, preserve, and interpret history in public settings.

Honors Program Courses

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Faculty

Honors Program Director: Peter F. Meiksins (Sociology).

Honors faculty are selected from the faculty in the various departments across the university. They are chosen because of their commitment to undergraduate education, their interest in working with talented students, and their ability to develop challenging courses that cut across disciplines and make use of a variety of teaching methods. **Lower-division honors students will have the opportunity to take small-section courses from faculty in a range of disciplines. Upper-division students have the opportunity to work closely with any of the faculty members of the department in which they have chosen to major.**

Course Descriptions

HON 101 Introduction to Honors (1-0-1). Prerequisite: Honors standing or permission of university Honors Program. An orientation course for first-year honors students. Introduces students to campus life including the range of events and services offered on campus and the philosophy, policies and procedures of the university; serves as a forum in which students can ask questions and share experiences with fellow students, faculty, advisors, and mentors; and provides the honors students with a common experience and sense of community.

HON 200 Universal Honors Experience (0-0-1). Prerequisite: Honors standing or permission of university Honors Program. All Honors students, except first-semester freshmen, are required to take a Universal Honors Experience course each semester. A maximum of 50% of those courses may be sections of HON 2001, a not-for-credit course. The content of the Universal Honors Experience will vary considerably from term to term. Alternatives include the following: service learning, volunteer work for the Model UN, reading club, and film club. Students may also propose a topic for a universal honors experience following guidelines in the Honors Student Handbook.

HON 201 Universal Honors Course (1-0-1). Prerequisite: Honors standing or permission of university Honors Program. The Universal Honors Course is one of three alternatives required of all students in the Honors Program each semester except first-semester freshman year. HON 201 is a 1-credit course. The content of the Universal Honors Course will vary considerably from term to term. Alternatives include courses in which students explore cultural offerings around Cleveland or aspects of art history, develop public speaking skills, engage in service learning projects, expand their appreciation of sports or work on a newsletter for the Honors program.

Honors General Education Courses: Each semester, students are able to choose from among 7-10 dedicated honors general education courses. Offerings vary each semester. For details, see the following examples of courses developed for the Honors program by academic departments across the university: ART 253H, BIO 104H, BIO 105H, DAN 212H, ECN 230H, EEC 391H, ENG 102H, ENG 207H, ENG 240H, ENG 241H, HIS 201H, HIS 272H, HIS 316H, MTH 181H, MTH 182H, MUS 260H, MUS 261H, PHL 213H, PHL 225H, PHL 242H, PHL 246H, PHY 243H, PHY 244H, PSY 101H, REL 235H, SCI 220H, SOC 201H, SOC 280H.

Information Systems Courses

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Faculty

Link to CIS Department Personnel
Link to Profiles of Full-time CIS Faculty

Professors: Adam M.A. Fadlalla, Chien-Hua (Mike) Lin, Victor M. Matos, Santosh K. Misra (Chair), Toshinori Munakata; **Associate Professors:** Timothy J. Arndt, Ben A. Blake, David R. McIntyre, Howard Paul, Iftikhar Sikder, Janche Sang; **Assistant Professor: Radha Appan, Raymond Henry, Haodong Wang** ; **Term Instructors:** Sharen Bakke, , Sanchita Mal-Sarkar.

Course Descriptions

Note: see also CIS courses.

IST 203 Software Tools for Personal Productivity (3-0-3) Prerequisites: None. Students with minimal computer skills will learn to enhance their personal productivity and problem solving skills by applying information technologies to problem situations. In this course, students acquire skills as knowledge workers through effective and efficient use of packaged software. Emphasis is on learning features of a suite of software including Windows operating environment, word processing, spreadsheets, presentation graphics, simple database operations, electronic mail, and the strategic use of the Internet.

IST 211 Fundamentals of Systems Development (4-0-4) Prerequisite: IST 203. Introduces the fundamental concepts of object-oriented programming using a contemporary Object Oriented Programming language. Topics include event driven programming, classes and objects, graphical user interfaces, data types, control structures, functions and subroutines, arrays, files, error handling; the mechanics of running, testing, and debugging programs; definition and use of user-defined classes.

IST 221 Information Systems in the Organization (3-0-3) Prerequisite: IST 203; co-requisite: OSM 201. Examines the role of information technology in organizations from the perspective of the IT professional. Capabilities of current and emerging technologies are considered for their functional contributions to organizational effectiveness. In addition, business processes supported by IT are examined. Topics include hardware, software, networks, databases, system design, e-business, supply chain, global information systems, and ethical issues related to the use of information.

IST 305 Information Technology for Competitive Advantage (3-0-3) Prerequisite: IST 203. Examines the role of information technology in organizations from the perspective of non-IT business people. Concept of information, its role in the organization, and systems for functional and cross-functional support are examined. Strategic uses of information systems including decision support, e-business and supply chain are explored. Requirements for effective IT implementation and the crucial role of users in system development are studied. Also considered are the uses of databases and data warehouses. *May not be used to satisfy B.B.A.-IS major-field requirements.*

IST 311 Systems Development for the Organization (4-0-4) Prerequisites: IST 211, IST 221. This course is a continuation of IST 211 and is intended to prepare students as advanced end users and developers capable of designing, developing and implementing superior solutions based on a contemporary Object Oriented Programming language. On completion of the course, students will be proficient in designing, coding, debugging, testing, and distributing applications. Coding of applications will include detailed descriptions of algorithms to perform common programming tasks such as

sorting, searching, and hashing. Efficiency issues are also discussed. Students are exposed to database programming techniques using Data Object Model.

IST 321 Systems Analysis Methods (4-0-4) Prerequisites: IST 211, IST 221. Presents basic systems principles and concepts; logical analysis, design, and modeling of information systems with emphasis on object-oriented methodologies; life cycle phases; use of the Unified Modeling Language, the Rational Unified Process, and Class-Responsibility-Collaboration (CRC) cards. A CASE tool is used to implement system features such as use cases, use case diagrams, class diagrams, sequence diagrams, collaboration diagrams, and state diagrams.

IST 331 Design and Implementation of DBMS (4-0-4) Prerequisite: IST 311. Students learn to develop a physical database based on a logical data model within the context of a commercial DBMS. Topics include conceptual, logical, and physical data models and modeling tools; structured and object design approaches; models for databases: relational and object oriented; design tools; data dictionaries, repositories, database implementation including user interface, data retrieval and maintenance, and reports; mastery of Structured-Query-Language (SQL) for retrieval, maintenance and administration; multi-tier planning and implementation; data conversion and post implementation review. Students construct physical database solutions using the .Net platform.

IST 341 Networks and Telecommunications (3-2-4) Prerequisite: IST 311. Basic knowledge of data communications and networking requirements, including appropriate technologies. Emphasis on analysis and design of networking applications in organizations. Management of telecommunications networks, cost-benefit analysis, and evaluation of connectivity options are also covered. Students learn to evaluate, select, and implement different communications options within an organization. Topics include telecommunication devices, media, systems; network hardware and software: network configurations; network applications; acquisition of network resources; distributed vs. centralized systems; architectures, topologies and protocols; installation and operations of bridges, routers and gateways; network administration; performance analysis; privacy, security, reliability; installation and configuration of LAN and WAN; Internet and intranet.

IST 410 Object-oriented Programming for Information Systems (4-0-4) Prerequisite: IST 311. Advanced study of object-oriented methodologies and programming using the Java and the C# programming languages. Language syntax, error handling, object creation/destruction and memory allocation strategies are explored. Java GUI components, event handling and web-based programming are introduced.

IST 420 Project Management for Information Systems (4-0-4) Prerequisite: IST 321. Focuses on models used in a software development project, including tools that improve project productivity. Topics include concepts of project management, task scheduling, cost estimation models, risk assessment and software maturity framework. Students use tools such as PERT/CPM and cases to gain depth in software project management principles and practice.

IST 430 Knowledge Management (3-0-3) Prerequisite: IST 221 or IST 305. Introduces the concept of Knowledge Management and the systems that enable people to acquire, store, distribute and process knowledge. Define what knowledge is and the types of knowledge that exist. Understand how systems thinking is integral to understanding and managing knowledge. Other topics discussed include economic issues, acquiring, storing, distributing, and processing knowledge.

IST 440 Decision Support and Business Intelligence Systems (4-0-4) Prerequisite: IST 203 and Junior standing. Introduces decision support system concepts, methodologies, decision analysis, modeling techniques and integration of intelligent systems. Provides instructions on building spreadsheet based Decision Support Systems (DSS) using Excel Macro and VBA (Visual Basic for Applications). Introduces the .NET framework to host DSS applications. Illustrates various intelligent techniques of business analytics through case studies from management, business administration and operations research.

IST 445 Information System Security (4-0-4) Prerequisite: IST 341. Advanced knowledge of data communications and networking as they apply to security. Identifying and analyzing the various types of security risks. Investigating tools to counteract security risks. Developing security and business continuity plans based on the risks and tools incorporated. Upon successful completion of this course, the student will be able to analyze, design, implement, and administrate an organization's network security system.

IST 450 Web-Based Programming (4-0-4) Prerequisite: IST 331. This course introduces website design and web-based applications using several tools and techniques. The course starts with client-side programming. The second half of the

course is dedicated to server-side development. Topics covered include HTML, DHTML, , Cascading Style Sheets, DOM, ASP.NET, JavaScript, database connectivity, web parts, and Web Services.

IST 461 Electronic Business (3-0-3) Prerequisite: IST 221 or IST 305. Electronic business is one of fastest growing business segments in today's environment. Course examines issues associated with electronic businesses and the Internet. Topics include business models and their sustainability, technology requirements, security, payment systems, e-Government and strategic issues.

IST 462 Business Process Modeling and Design (3-0-3) Prerequisite: IST 221 or IST 305. This course aims to provide an overall view of business processes. A business process can be thought of as a series of steps taken by a business to get activities done. Students, after completing this course will understand how to design business processes and optimize such designs. Simulation tools will be used to chart business processes.

IST 465 Enterprise Integration Systems (3-0-3) Prerequisites: Completion of all 200- and 300- level courses from the common body of knowledge, completion of the IST core, senior standing. Examines issues associated with enterprise systems, integrated and best of breeds. Examines impact of such systems on organizations and decision making issues. Topics include business processes, role of enterprise systems with relation to business processes, business process reorganization, acquisition and success issues associated with enterprise system implementation. Students get hands on experience in using SAP by creating a virtual enterprise of their own.

IST 470 Managing IT Infrastructure (3-0-3): Prerequisites: Junior or Senior Standing. This course is for students interested in the IT systems and infrastructure management. The course covers the basic principles of systems operations and management. Topics include basic computing platforms, operating systems, basic networking, data storage and backup. The course will also include monitoring, event management, problem management and change management. Introduction to availability, performance and security will be covered at a very high level.

IST 490 Professional Internship (1-0-1). Prerequisites: Junior standing and permission of a CIS Department faculty adviser. Work experience in a professional environment. The work performed must extend the academic curriculum and provide a meaningful learning experience in the student's area of interest. Term paper required. This course may only be taken *once*.

IST 493 Special Topics in Information Systems (1 to 4 credits). Prerequisite: Senior standing and permission of instructor and department chair. Explores current issues or special topics in information systems. Topics and course requirements will be announced by the department.

IST 496 Independent Study (1 to 4 credits). Prerequisites: Senior standing; approval of faculty adviser and department chair. Enables qualified students to do independent work or investigate special areas of interest in information systems. Written proposal must be approved by a faculty adviser and CIS department chair; a written report must be submitted to faculty adviser.

IST 499 Honors Thesis in Information Systems (3 credits). Prerequisite: Restricted to senior IST honors students. Requires the honors student to conduct a piece of original research in information systems under the supervision of an IST faculty member. The thesis will be presented orally and submitted as a written report.

International Business Courses

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Faculty

Professors: Chenchu Bathala, Jayne Fuglister, Andrew Gross, Rajshekhar Javalgi, Ravi Kamath, Santosh Misra, Robert Scherer, Oya Tukel, Thomas W. Whipple; **Professor Emeritus:** Tim R.V. Davis; **Associate Professors:** Susan Storrud-Barnes, Ivan R. Vernon; **Assistant Professors:** Elad Granot, Dalia Marciukaityte, Ji Eun Park, Lori Peterson; **Instructors:** Renee Castrigano, Donna Davisson, Christine Dickinson.

Course Descriptions

INB 301 International Business (4-0-4). Introduces concepts, theories, information, and issues that impact business strategies in global markets. Investigates the role of international institutions and the cultural, economic, legal, and geopolitical influences on world trade. Examines the nature of business decisions across such functional areas as human resources management, finance and accounting, marketing, and operations management. Cross-listed with MKT 321.

INB 490 International Business Internship (1 to 4 credits). Prerequisites: INB 301/ MKT 321 and one INB core elective. Specially arranged field experience in the U.S. or abroad, providing intensive exposure to international business environment, practices, customs, and languages. For internship abroad, appropriate language proficiency is required. Domestic internship must be in an organization which is heavily involved in international business. Written proposal needs to be approved by faculty adviser and IB Program adviser before registration. A written term paper will be required. Contact the IB adviser for current information.

INB 491 International Study Tour (1 to 4 credits). Prerequisite: Permission of IB adviser. A specially arranged study tour of a target country or region. Students will be exposed to the target country's business environment, culture, and language. Selection of the target country or region may vary each year. A written report will be required. Contact the IB adviser for current information.

INB 492 International Business Study Abroad (1 to 4 credits). Prerequisite: Permission of IB adviser. International business students may register in approved classes at international partner universities. The credit hours earned at the partnering university may be transferred as credits earned under INB 492. Contact the IB adviser for current information on approved programs and courses.

INB 493 Special Topics in International Business (1 to 4 credits). Prerequisite: Senior standing and permission of instructor and INB program director. Explores current issues or special topics in international business. Topics and course requirements will be announced by the International Business program director.

INB 495 Consulting (4 credits). Prerequisites: Senior standing, INB 301/MKT 321, and one INB elective. The learning philosophy in this course can be summed up as follows: theory informs practice. The international business Consulting course emphasizes the integration of strategy, business processes, technology, and management through a group project conducted for a "real-world" company or non-profit, organization engaged in global operations. The course centers around student teams working with clients to conduct analysis, determine managerial priorities, and provide a series of deliverables that enable the client to operate more efficiently and to grow. Students will follow a systematic business consulting methodology The course features close work with clients and ends with a report for client managers.

INB 496 Independent Study (1 to 4 credits). Prerequisite: Senior standing. A flexible content course designed to enable qualified students to pursue special areas of interest in international business. Written proposal needs to be approved by faculty adviser and IB Program adviser before registration. Written report is required.

INB 499 Honors Thesis in International Business (3 to 4 credits). Prerequisite: Restricted to senior International Business honors students. Requires the honors student to conduct a piece of original research in international business under the supervision of an International Business faculty member. The thesis will be presented orally and submitted as a written report.

Italian Courses

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Faculty

Link to Profiles of Full-time Modern Languages Faculty

Professor: Tama Lea Engelking (Chairperson**); Lecturer**: Elia Lafelice

Course Descriptions

Students with native experience in Italian may not enroll for credit in the 100-level courses in Italian.

ITN 101-102 Italian I, II (4-2-5). Prerequisites: ITN 101: None; ITN 102: Completion of ITN 101 with a C or better or permission of instructor. Essentials of Italian usage; practice in hearing, speaking, reading, writing. Lab fee.

ITN 201 Culture and Civilization (4-0-4). Prerequisite: ITN 102 with a C or better or permission of instructor or equivalent. Readings explore Italian customs, attitudes, history and values in comparison with the U.S. Ongoing review and expansion of Italian skills development.

ITN 210 Intermediate Italian (4-0-4). Prerequisite: ITN 102 with a C or better or permission of instructor or equivalent. Practice in hearing, speaking, reading, and writing based on selections from contemporary, informal Italian materials.

Japanese Courses

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Faculty

Link to Profiles of Full-time Modern Languages Faculty

Professor: Tama Lea Engelking (Chairperson).

Course Descriptions

Students with native experience of Japanese may not enroll for credit in the 100-level courses in Japanese.

All students with training or experience in Japanese other than a previous course in that language at Cleveland State must consult a counselor in the Department of Modern Languages for assistance in deciding where to enter the Japanese sequence. Failure to seek counseling may result in schedule shifts during the first week of class.

JPN 101, 102 Japanese I, II (4-2-5). Prerequisite: JPN 101: None; JPN 102: Completion of JPN 101 with a "C" or better or permission of instructor. This course covers the essentials of Japanese usage and includes practice in hearing, speaking, reading, and writing. There is a lab fee.

JPN 193, 293 , 393, 493 Special Topics in Japanese (1 to 4 credits). Prerequisite: Permission of instructor. This is the study of a particular topic in Japanese language, literature, or civilization. It may be repeated with a change in topic.

JPN 201 Intermediate Japanese Conversation (4-0-4). Prerequisite: JPN 102 or equivalent. This course involves practice in hearing, speaking, and writing based on selections from contemporary, informal Japanese materials.

JPN 202 Intermediate Japanese Language and Culture (4-0-4). Prerequisite: JPN 102 or equivalent. Readings explore Japanese customs, attitudes, history and values in comparison with the U.S. It is an ongoing review and expansion of Japanese skills development.

Latin Courses

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Faculty

Professor: Tama Lea Engelking (Chairperson); **Professor Emeritus**: Edward R. Haymes. **Assistant Professor:** Kelly Wrenhaven

Course Descriptions

Courses in linguistics, literature, and civilization having no prerequisites are listed under French, German, Modern Languages, and Spanish.

LAT 101 - 102 Latin I, II (4-0-4). Prerequisite LAT 101: none; Prerequisite LAT 102: LAT 101 with a grade of C or better or permission of the instructor. This is an introduction to Latin with emphasis on reading skills; it is based on classical and medieval texts.

LAT 111 - 112; 113 - 114 Latin FLEX IA-B; IIA-B (0-3-2). Prerequisites: LAT 111: None. LAT 112 through 114: a grade of C or better in the preceding level; or permission of the instructor. This is the first-year Latin sequence offered in a modular Directed Studies format. The course content is the same as that of LAT 101 - 102, but students in LAT 111- 114 are not required to attend classes. Scheduled tutorial sessions are required. Students may normally register for up to two courses in a given semester.

LAT 193 - 293 - 393 - 493 Special Topics in Latin Literature (1 to 4 credits). Prerequisite: Two years of college Latin or equivalent or permission of the instructor. This course includes readings and research dealing with topics in Roman literature, culture, and history. It may be repeated for credit with change in topic.

LAT 196 - 296 - 396 - 496 Independent Study in Latin (1 to 4 credits). Prerequisites: Student must have sophomore, junior, or senior standing. Proposed projects must be approved by a full-time department faculty member, who will serve as the project adviser, and the department chair. This course is comprised of student-initiated supervised projects involving Latin language or literature, such as in-depth study of a particular writer, or special readings in linguistics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged between student and instructor. Project's title will appear on student's transcript. It may be repeated for credit with change of topic.

LAT 200 /300 Latin Bridge (1 to 2 credits). Prerequisite for LAT 200: Completion of LAT 102 or 114 with a grade of C or better, or permission of the instructor; for LAT 300, completion of LAT 201 or 202 with a grade of C or better, or permission of the instructor. The course provides an informal "bridge" over the summer term between the first-year and the second-year Latin sequences (LAT 200), and between the second year and upper-level Latin courses (LAT 300). Through reading and translation of selections from classical and/or medieval Latin literature, it provides students who have completed the first-year or the second-year course with an opportunity to maintain their Latin skills over the summer, and to enhance their reading skills. LAT 200 and LAT 300 are offered together.

LAT 201 Culture and Civilization (4-0-4). Prerequisite: Completion of LAT 102 or LAT 114 with a grade of C or better; or permission of the instructor. This is an introduction to some aspects of Latin culture and civilization through close reading and analysis of significant works of classical Latin prose; specifically the "Cupid and Psyche" story from Apuleius' "The Golden Ass." Other readings, including texts in English on Latin culture, will be assigned as appropriate. A secondary goal is to build upon the skills gained in first year Latin through grammatical topics appropriate to the intermediate course.

LAT 202 Vergil (4-0-4). Prerequisite: LAT 201 or permission of the instructor. This is the study of selections from the Eclogues, Georgics and the Aeneid in their historical and literary contexts, including rules of scansion and prosody, literary criticism and research.

Linguistics Courses

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- Course Descriptions
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Faculty

Link to Program Personnel

Professors: John A.C. Greppin, George Ray**; Professors Emeriti**: Earl R. Anderson, Bruce A. Beatie, William S. Chisholm, Edward R. Haymes, Laura Martin, Nicholas J. Moutafakis, Art Schwartz; **Associate Professors:** Barbara Hoffman, Antonio Medina-Rivera, Ahmee Shah; **Assistant Professors: Hoe Kyeung Kim,** Conor McLennan, Barbara Prakup; **Coordinator of ESL:** Maria Angelova; **Director of Speech & Hearing:** Monica Gordon Pershey; **Director of Linguistics:** Paul L. Aspelin; **Adjunct Faculty:** Marshall C. Lewis, Phillip J. Wanyerka.

Course Descriptions

Linguistics, available as a major (39 credits) and a minor (18 credits), is based on courses in anthropology, communication, education, English, modern languages, philosophy, psychology, and speech and hearing. For details about the program, contact the Department of Anthropology, CB 119, 687-2414.

LIN 120 Introduction to Language and Linguistics (4-0-4). This course provides an introduction to the properties of human languages and to their systematic study in the field of linguistics. It provides the groundwork for future studies of language and communication in a broad range of disciplines: linguistics, modern languages, ESL, communication, sociolinguistics, and anthropological linguistics. It is assumed that students have had no prior course work or exposure to linguistics and will begin with the basic assumptions that are shared by those who study language from a variety of perspectives. Cross-listed with ANT 120.

LIN 260 Language, Culture and Society (4-0-4). Overview of the study of language in its cultural and social contexts. Topics may include the formation and maintenance of speech communities, variation of language within and across speech communities, how languages change in contemporary social contexts, the range of uses of language in social contexts, the verbal arts, oral folklore, and the development of writing systems. This course does not presume a background in either linguistics or anthropology. Cross-listed with ANT 260.

LIN 293 Topics in Linguistics (4-0-4). Topics reflect material of special or timely interest, such as languages of the city, languages of Africa, effects of globalization on linguistic diversity, cognitive semantics. May be repeated up to 12 credit hours when topics vary.

LIN 310 Traditional Grammar (4-0-4 credits). Survey of traditional grammar, its history and present use in the schools.

LIN 311 Elements of Linguistics (4-0-4). Survey of phonology, morphology, syntax, semantics, pragmatics, and psycholinguistics with reference to modern English. Cross-listed with ENG 311.

LIN 313 Studies in Linguistics (2 to 4 credits). Core course in a mainstream linguistic topic, such as American English dialects, historical linguistics, history of the English language, semantics, or socio-linguistics. May be repeated with change of topic. Cross-listed with ENG 313, with ANT 344 Sociolinguistics, and with courses in other departments as appropriate.

LIN 314 Applied Linguistics (2 to 4 credits). Course in the professional application of linguistics, such as language diversity and teaching English, lexicography, or English as a second language. May be repeated with change of topic. Cross-listed with ENG 314.

LIN 315 Introduction to the English Language (4-0-4). An overview of the main components of a linguistic description of English and of the history of the language with an introduction to some relevant areas of applied linguistics: language acquisition, regional and social dialects, socio-linguistics, and pragmatics. Cross-listed with ENG 315.

LIN 318 Language Analysis (2 to 4 credits). Prerequisite: Introductory linguistics course or strong background in a foreign language. Topics may include Sanskrit, Hittite, Classical Armenian, Old English, Old Norse, or Gothic, studied with an emphasis on grammar and linguistic issues. May be repeated as the continuing study of one language, or with a change of topic. A two-semester sequence of one language (such as Sanskrit I and II), or a semester of Old English followed by a semester of Old Norse or Gothic, may satisfy the Arts and Sciences foreign-language requirement. Students who take Sanskrit I and II (4 credits each) may take second year Sanskrit III and IV (2 credits each). Cross-listed with ENG 318 and MLA 318.

LIN 340 Phonology (4-0-4). Prerequisites: ANT 120 or LIN 120, Introduction to Language and Linguistics or ENG 311 or LIN 311, Elements of Linguistics. Introduction to the scientific study of the sound systems of the world's living languages. Includes discussion of the basics of phonetic transcription and phonemic analysis and the development of formal models in phonology. Topics include articulatory and acoustic phonetics, the phoneme, phonological rules and representations, nonlinear models, harmony processes, prosodic morphology, and sound symbolism. Cross-listed with ANT 340.

LIN 341 Morphology and Syntax (4-0-4). Prerequisites: ANT 120 or LIN 120, Introduction to Language and Linguistics or ENG 311 or LIN 311, Elements of Linguistics. Introduction to the description and analysis of word formation processes and sentence structure from a crosslinguistic perspective. Instruction in basic morphemic analysis and constituent testing using data drawn from languages outside the Indo-European family. Also includes an introduction to typological analysis in the study of morpho-syntax. Cross-listed with ANT 341.

LIN 342 Languages in Contact (4-0-4). Introduction to the study of linguistic responses to culture contact in a variety of socio-historical contexts. Topics include language and trade, language and colonialism, pidgins and pidginization, creoles and creolization, dialect contact, and the formation of koines. Cross-listed with ANT 342 and MLA 342.

LIN 347 Maya Hieroglyphic Writing I (4-0-4). This course provides an introduction to Classic Maya writing and texts from a linguistic and anthropological perspective. After an introduction to the origins and functions of writing in Mesoamerica, specifically Classic Mayan culture, students will learn to read Classic Mayan texts. They will examine aspects of the grammatical structure of relevant languages, the relationship of spoken languages to the script, and develop strategies for decipherment based on our understanding of modern Mayan languages. After learning how to decipher texts and supplying linguistic values to written signs, students will analyze and interpret a body of Maya texts for information of general anthropological and linguistic interest such as dynastic history, social and political organization, language and ethnicity, ritual, cosmology, belief systems, verbal morphology and syntax, and local ecology.

LIN 438 Dialect Differences in the Schools (2-0-2). Study of certain aspects of urban language patterns with special attention to linguistic features of those persons described as culturally different. Investigation and discussion of literature on oral language variations as related to listener attitudes, social and economic consequences, school success, and questions concerning approaches to the problem of speech and language specialists. Analysis and evaluation of language samples. Cross-listed with SPH 438.

LIN 447 Maya Hieroglyphic Writing II (4-0-4). Prerequisites: LIN 347. This course serves as a second, advanced follow-up course in Maya hieroglyphic writing. Its aim is to build on the students' basic knowledge and understanding of the principles and tenets of Maya hieroglyphic writing, learned in LIN 347: Maya Hieroglyphic Writing I, and apply these principles to a series of more challenging texts that are designed to hone and refine a student's skills as an epigrapher. Students will be trained in suggesting ways of establishing the meaning or readings of unknown glyphic elements in order to better understand and evaluate the overall meaning of the text. In general terms, students will integrate both archaeology and epigraphy to reach a more sophisticated understanding of Maya hieroglyphic decipherment and its implications for revising our current understandings of Classic Maya Civilization.

LIN 490 Linguistic Internship (1 to 2 credits). Prerequisites: Introductory linguistics course and permission of the faculty anchor and field supervisor. Internships are available in three fields: teaching adult English as a second language, computer-assisted accent reduction, and lexicography.

LIN 493 Special Topics in Linguistics (2 to 4 credits). Prerequisite: Introductory linguistics course or permission of instructor. Focus on an advanced linguistic topic such as lexicography, contrastive linguistic systems, or semantics.

LIN 496 Independent Study in Linguistics (1 to 4 credits). Prerequisites: Linguistics major, senior standing, completion of at least two linguistics core courses, and permission of supervising professor and linguistics director. Specialized research project of particular interest to the student. May be repeated, but no more than 4 credits count toward the Linguistics major.

Management and Labor Relations Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: Kenneth J. Dunegan, Harry J. Martin, Richard Reed; **Professors Emeriti:** Charles Brooks, Tim Davis, Robert E. Hastings, Stuart M. Klein, Jan P. Muczyk, Nels E. Nelson, Bernard C. Reimann, Jeffrey C. Susbauer, Yoash Wiener; **Associate Professors:** Timothy DeGroot(Chair); Mary W. Hrivnak, Bryan J. Pesta, Susan Storrud-Barnes; **Assistant Professors:** Mark Dobeck, Vickie Coleman Gallagher, Christine Brown Mahoney, Lori T. Peterson; **Lecturer:** Tracy Porter.

Course Descriptions

MLR 301 Principles of Management (3-0-3). Prerequisite: Junior standing. Introduces students to managerial roles and functions; covers planning, organizing, controlling, leading, staffing, and problem-solving in contemporary organizations; reviews foundations of management thought and managerial processes that lead to organizational effectiveness.

MLR 302 Principles of Labor Relations (3-0-3). Prerequisite: Junior standing. Introduces students to labor relations and collective bargaining; covers the parties (union and management), the legal framework, union structure and administration, the employer role, union organizing, bargaining issues, the negotiation process, grievances and arbitration, and public sector labor relations.

MLR 321 Organizational Behavior (3-0-3). Prerequisite: Junior standing. Analysis of situations involving individual and group behavior. Development of small and large group theory, interpersonal relations, and achievement of the goals of the enterprise with and through people as individuals and as groups. Areas of investigation include communications, direction, coordination, control leadership, and group dynamics.

MLR 340 Human Resource Management (3-0-3). Prerequisite: Junior standing. Current human-resource issues, policies, and practices. Includes study of legal environment, job analysis, planning, recruiting, selection, training, performance appraisal, compensation, and benefits; strategic and international HR issues are addressed throughout the course.

MLR 341 Compensation and Benefits (previously Personnel Compensation, Performance, and Job Evaluation) **(3-0-3).** Prerequisite: MLR 340 or permission of chair. Provides a broad understanding of compensation systems, and how organizations use them to attract, retain and motivate employees. Topics covered include: legal constraints, job analysis and evaluation, performance appraisal, person-based pay, setting and administrating pay structures, incentives, benefits and the compensation of special groups. Topics are covered in depth, and in more detail than in MLR 340.

MLR 342 Staffing Organizations (previously Staffing and Developing the Organization) **(3-0-3).** Prerequisite: MLR 340 or permission of chair. Provides a detailed examination of organizational staffing. Content includes staffing models, legal compliance, planning, downsizing, job analysis, external and internal recruitment, selection testing, interviewing, and retention. Topics are covered in more depth and detail than in MLR 340.

MLR 343 Employee Training and Development (3-0-3). Prerequisite: MLR 340 or permission of chair. Provides an in-depth look at the process of employee training and development. Coverage includes how training relates to organizational

strategy, needs assessment, adult learning, training evaluation, management development, selecting trainers and selection of appropriate instructional methods. Addresses training-related issues for specific topical areas such as harassment training and training for global assignments.

MLR 404 Organizational Theory and Design (3-0-3). Prerequisite: MLR 321 or permission of chair. Nature and importance of organizational structure and design; functions and dysfunctions of traditional designs; how and why organizational designs change; effects of the environment, technology, information and control systems, power structures, and political behavior on organizational performance.

MLR 411 Labor History (3-0-3). Prerequisite: MLR 302 or permission of chair. Examination of the organized labor movement in the United States and its influence on political and legal institutions; analysis of legislation relating to labor, management, and the public; laws and regulations concerning wages, hours, collective bargaining, labor contracts, and arbitration.

MLR 421 Comparative Labor Systems (3-0-3). Prerequisite: MLR 302 or permission of chair. American and foreign labor movements; trade unionism and industrial relations systems in different areas of the world, showing their roles in economic, social, and political developments; comparison of structure and functions of labor movements at various stages of economic development.

MLR 422 Labor Law (3-0-3). Prerequisite: MLR 302 or permission of chair. The law of industrial relations with emphasis on the Labor-Management Relations Act, including unfair practices and representation cases.

MLR 423 Labor Relations in Public Employment (3-0-3). Prerequisite: MLR 302 or permission of chair. Collective bargaining by federal, state, and local employees; differences between public and private employment; union security, impasse procedures, and implications of collective bargaining for public management; impact of collective bargaining on wages and other conditions of employment in the public sector.

MLR 431 Employment Practices Law (3-0-3). Prerequisite: MLR 302 or permission of chair. Analyzes employment-practices law and its impact on employment decision-making; equal employment opportunity and discrimination; occupational safety and health, pension and benefit regulations and laws that pertain to the employment relationship. Emphasis is on the impact of regulations on organization personnel and human resource policy.

MLR 443 Entrepreneurship (3-0-3). Prerequisite: Senior standing or permission of chair. Exploration of the business formation process, and the management and operation of new/smaller enterprises both within and apart from existing ventures. Students are required to develop a written business venture plan and may act as advisers to existing smaller enterprises.

MLR 447 Cross-Functional Management (4-0-4). Prerequisite: MLR 301 or permission of chair. Analysis of issues involved in managing different functional departments, and examination of the types of interactions and conflicts that typically occur between departments. Methods of dealing with interdepartmental problems are considered along with current management techniques for improving strategic and operational performance.

MLR 455 Labor-Management Cooperative Practices(3-0-3). Prerequisite: MLR 302 or permission of chair. Exploration of cooperative work systems and efforts by labor and management to work together to improve the quality of work life by increasing effectiveness of the organization, productivity, quality, and work satisfaction, and understanding the processes used to accomplish these ends.

MLR 457 Human Resource Information Systems (3-0-3). Prerequisite: MLR 340 or permission of chair. A comprehensive analysis of human-resource information systems with exploration of major applications and use of systems to improve decision-making; emphasizes hands-on use of technology in human resource planning, selection, appraisal, and compensation.

MLR 465 Management Strategy and Policy (3-0-3). Prerequisites: Senior standing, all college core courses, at least three major-field courses. A business capstone course: integration of the student's background, experiences, and previous core business curriculum through case studies and business decision simulation exercises; development of an effective conceptual approach to integrating administrative policy, strategies, and decision-making; diagnosis, analysis, and solution of interrelated administrative problems.

MLR 477 Managerial Skill Development (3-0-3). Prerequisite: MLR 321 or permission of chair. Analysis of aspects of managing in which specific behavioral skills can be developed; focus on individual managers and skill development in such areas as goal-setting, time-management, conducting meetings, communication processes, delegation, training, and appraisal interviews.

MLR 487 International Management (3-0-3). Prerequisite: MLR 321 or permission of chair. Strategic, managerial, and human-resource issues in international business management; cultural differences and managerial practices in different countries; planning and control of small businesses and global enterprises; evaluating the performance of overseas subsidiaries; coordinating operations in different countries; overseas decisions; career concerns with overseas assignments.

MLR 490 Professional Internship (1 to 4 credits). Prerequisites: Two MLR courses and permission of chair. Provides students with an opportunity to gain practical experience in human resources, labor relations, and/or management; may be arranged at the initiative of the student or the faculty member; offers a maximum of three semester hours for a 15-hour-per-week internship with fewer semester hours offered for fewer hours of work. The course is graded on a Pass/Fail basis.

MLR 493 Special Topics in Management and Labor Relations (1 to 3 credits). Prerequisites: Senior standing and permission of chair. A study of a selected current topic in management. Course topics will vary. Offered as demand warrants.

MLR 496 Independent Study (1 to 3 credits). Prerequisites: Senior standing, approval of sponsoring professor and department chair, written proposal approved before registration. Flexible in content and structure, this course is designed to enable qualified students to pursue special areas of interest and competency; opportunity for independent study, field research, or other special assignments.

MLR 499 Honors Thesis in Management and Labor Relations (3 credits). Prerequisite: Restricted to senior MLR honors students. Requires the honors student to conduct a piece of original research in management and labor relations under the supervision of an MLR faculty member. The thesis will be presented orally and submitted as a written report.

Marketing Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: Andrew C. Gross, Rajshekhar G. Javalgi, Rama K. Jayanti ,W. Benoy Joseph, William J. Lundstrom, Thomas W. Whipple (Chair); **Professors Emeriti:** Robert F. Hartley, S.R. Rao, Edward G. Thomas; **Associate Professors:** Ashutosh Dixit, Amit K. Ghosh, , Sreedhar Madhavaram, Kenneth R. Mayer, Ivan R. Vernon, Marion S. Webb; **Assistant Professors:** Elad Granot, Ji Eun Park; **Term Instructors:** Donna Davisson, James D'Orazio, Kimberly Ruggeri; **Visiting Instructor:** Christine M. Dickinson

Course Descriptions

MKT 301 Fundamentals of Marketing (3-0-3). Prerequisite: Junior standing or permission of department chair. Studies the relationships in marketing, business and behavioral activities involved in marketing goods and services in both profit and not-for-profit enterprises. Examines and analyzes marketing activities from the planning stage to the consumption stage. Emphasizes concepts that facilitate an understanding of consumer behavior, marketing practices, environmental factors, and ethical issues.

MKT 321 International Business (4-0-4). Prerequisite: MKT 301. Introduces concepts, theories, information, and issues that impact business strategies in global markets. Investigates the role of international institutions and the cultural, economic, legal, and geopolitical influences on world trade. Examines the nature of business decisions across such functional areas as human resources management, finance and accounting, marketing, and operations management. Cross-listed with INB 301.

MKT 351 Business, Society, and Government (3-0-3). Prerequisite: Junior standing. Investigates organizational, societal, regulatory, and ethical issues and challenges that businesses face in domestic and global environments. Introduces information and analytical tools for studying such issues as corporate power and influence, environmental pollution, corporate social responsibility, consumer protection, affirmative action, quality of worklife, and professional ethics.

MKT 411 Retailing Strategy and Management (4-0-4). Prerequisite: MKT 301. Explores the domain of retailing marketing to the final consumer. Emphasis is placed on retail strategy, merchandising, vendor relations and location. The course will use design as the medium to link consumer need to retail. This will include basic design elements, such as space, form and color, as well as retail-specific topics like point-of-purchase displays. Both macro and micro elements of retail design will be explored, including issues from mall development to individual customer transactions.

MKT 420 Consumer Behavior (4-0-4). Prerequisite: MKT 301. The goals are to provide conceptual understanding of consumer behavior, provide experience in applying consumer behavior concepts to marketing strategy and social policy decision-making through case analysis, and develop experiential capability in using consumer research. This course covers major influences on the consumption process, including psychological, situational, and socio-cultural factors. Specific topics include perception, attitudes, values, consumer decision-making, and customer satisfaction, among others. The marketing implications of understanding the consumer are emphasized, but social factors are also considered.

MKT 431 Marketing Research (4-0-4). Prerequisite: MKT 301. Develops a managerial appreciation of the role of research in marketing practice and how results are used in decision-making. Emphasizes the total research process as

well as specific research steps, stressing information needs, research formulation and design, and research procedure. Integrates and applies concepts through managerially-oriented marketing research cases and a field research project.

MKT 440 Field Experience Abroad (4-0-4). Prerequisites: MKT 301 or equivalent; 2.5 GPA, and permission of department chair. This course is a specially arranged, study-abroad field experience which provides intensive business exposure to a target country. Students will conduct hands-on research, visit and interact with the business community in the target country, and prepare written reports on international marketing and business topics.

MKT 441 Integrated Marketing Communications (4-0-4). Prerequisite: MKT 301. Designed to introduce the field of integrated marketing communications as part of an overall marketing strategy. The emphasis in this course will be on the role of integrated advertising and promotion in the marketing communications program of an organization. As with any specialized field of marketing, we will analyze how this area of advertising and promotion fits into the overall marketing process. Our major thrust will be to study how various factors (creative, media, etc.) should be applied in planning, developing, and implementing advertising and promotional campaigns and marketing programs.

MKT 450 Selling and Sales Force Management (4-0-4). Prerequisite: MKT 301. This course introduces the basic functions of sales force management as well as theories and concepts about appropriately managing that function. Students will be able to apply sales research, theories, and concepts to practical situations. Topics covered include salesperson effectiveness, deployment, organizational design, compensation, and evaluation.

MKT 452 Business-to-Business Marketing (4-0-4). Prerequisite: MKT 301. Explores concepts, analytical tools, management practices, and advances in marketing goods and services to industrial, commercial, institutional, and other business markets in domestic and global environments. Includes lectures, case analyses, discussion, oral presentations, written reports, and execution of a field project.

MKT 454 Online Marketing Strategies(4-0-4). Prerequisite: MKT 301. Provides an introduction to Internet and mobile technologies and the marketing opportunities they present. Students learn how to leverage these technologies to achieve corporate marketing goals and how to integrate these technologies with traditional marketing strategies. Students create an e-marketing plan for a "real world" company.

MKT 456 Customer Relationship Management (4-0-4). Prerequisite: MKT 301. Introduces the basic theories and methodology of customer relationship management, including identifying profitable customers, understanding their needs and wants, and building a bond with them by developing customer-centric products and services directed toward providing customer value. Provides hands-on experience with popular analytical CRM and data mining tools that are widely used in the industry. Topics will cover the issues in the customer life cycle: market segmentation, customer acquisition, basket analysis and cross-selling, customer retention and loyalty, and practical issues in implementation of successful CRM programs.

MKT 461 Global Marketing Strategy (4-0-4). Prerequisite: MKT 301. Introduce current issues, information sources, and cultural sensitivities required to develop an effective international strategy and associated market plan. Since the international environment changes so quickly, we will discuss current events. The impact of international economics, culture, and nationalistic governmental policies; global and regional trade alliances; and other multilateral entities on trade patterns and marketing decision-making in global firms are considered in formulating appropriate marketing strategies to enter global markets and build sustainable advantages.

MKT 464 Marketing Strategy (4-0-4). Prerequisites: MKT 420 and MKT 431. Applies marketing principles, practices, and theories to the formulation of strategic marketing plans and solutions for U.S. and global markets. Builds analytical skills in diagnosing marketing problems, identifying opportunities, analyzing alternative courses of action, and recommending marketing strategies and action plans. Emphasizes decision-making, financial and ethical analysis, and individual and team assignments involving marketing cases, field projects, class discussions, written reports, and oral presentations.

MKT 490 Professional Marketing Internship (2 to 4 credits). Prerequisites: Junior standing, MKT 420, MKT 431, and minimum overall GPA of 2.5. Written proposal approved before registration by sponsoring professor and department chair. Contact department office to request application. Designed to provide marketing students with practical experience in exploring career paths in marketing management, marketing research, sales, retailing, advertising, and related fields. Working under the supervision of a marketing professional, student must work a minimum number of hours over the course of the semester to earn the desired number of course credit: 150 hours (2 credits), 225 hours (3 credits), or 300 (4

credits). A term report, incorporating theory, marketing tools, and practical applications, must be submitted to the sponsoring organization and professor.

MKT 493 Special Topics in Marketing (1 to 4 credits, set by Department). Prerequisite: MKT 301. A study of selected current topics in the field of marketing. Emphasis will be placed on exploring current literature, advanced problems, and research tools applicable to the chosen topic.

MKT 495 Consulting (4 credits). Prerequisites: Senior standing, MKT 420, and MKT 431. The learning philosophy in this course can be summed up as follows: theory informs practice. The marketing consulting course emphasizes the integration of strategy, business processes, technology, and management through a group project conducted for a "real-world" company or non-profit, organization. The course centers around student teams working with clients to conduct analysis, determine managerial priorities, and provide a series of deliverables that enable the client to operate more efficiently and grow. Students will follow a systematic business consulting methodology. The course features close work with clients and ends with a report for client managers.

MKT 496 Independent Study (1 to 4 credits). Prerequisites: Senior standing. Written proposal approved before registration by sponsoring professor and department chair. A flexible content/structure course designed to enable qualified students to pursue special areas of interest and competency; opportunity for independent study, field research, or other special assignments.

MKT 499 Honors Thesis in Marketing (4 credits). Prerequisite: Restricted to senior MKT honors students. Requires the honors student to conduct a piece of original research in marketing under the supervision of a Marketing faculty member. The thesis will be presented orally and submitted as a written report.

Mathematics Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: John P. Holcomb (Chairperson), Ching Lung Chang, Pratibha Ghatage, Gregory M. Lupton, Rasul A. Khan, Barbara Haas Margolius, John F. Oprea, Brian M. Scott, Sally SaiLai Shao, Chung-yi Suen, John J. Walsh; **Professors Emeriti:** Shih-Hung Chang, Thomas W. Hungerford, Keith M. Kendig, Sundaresan Kondagunta, Roger H. Marty, Allan J. Silberger, Sherwood D. Silliman, Chester W. Topp; **Associate Professors**: Peter Bubenik, Leah Gold, Luiz Felipe Martins, Carol Phillips-Bey, Ieda W. Rodrigues; Ivan Soprunov **Associate Professors Emeriti:** Richard H. Black, Leonard F. Bruening, Paula C. Gnepp, David Herlacher, Arthur Lieberman, Shirley A. Lilge, Frank W. Lozier, Stewart M. Robinson; **Assistant Professors:**, , Ariadni Papana Dagiasis, Jonathan Scott, , Partha Srinivasan, Yuping Wu; **Term Assistant Professor: Linda Quinn; Term Instructors: Patricia Kan; Gregory LaPlaca, Antoinette Marquard.**

Course Descriptions

Students with credit in MTH 182, or in any mathematics course numbered above 220, may not register for a mathematics course numbered 168 or lower. A student who attempts to do so will be given a grade of W in the ineligible course. This rule takes precedence over the university regulations on repeated courses whenever both are applicable.

Placement Tests: All students must take the Mathematics Placement Examination before they will be permitted to register for mathematics courses numbered 115, 116, 117, 127, 147, 148, 167, 168, and 181, except for students who have passed the appropriate prerequisite course. Mandatory placement for these courses is in effect. Students are not permitted to register for a higher-level course than indicated by their placement exam score.

- Preparatory Courses
- Courses for Humanities, Business, Education, and Social Sciences
- Courses for Mathematics, Science, Engineering, Computer Science and Education Majors, and Statistics Minor
    - Precalculus and First-Year Calculus Courses
    - Intermediate Courses
    - Advanced Courses

Preparatory Courses

A student who has been unconditionally admitted to the university should have already mastered the material in these courses. Credit earned in MTH 087 or MTH 088 does not count toward graduation.

MTH 087 Basic Algebra (4-0-4). MTH 087 begins with a pre-algebra review. It then proceeds to basic algebra topics such as linear equations and inequalities, rectangular coordinate system, graphs of linear equations, linear systems, polynomials, exponents, factoring, and quadratic equations with emphasis on graphing and applications through problem-solving. MTH 087 concludes with an introduction to statistics and probability. Pass/fail system of grading, but students receive modified letter grades: S(A), S(B), S(C), U(D), U(F). The letter grades in parentheses are not computed in the students' GPAs. No credit toward graduation.

MTH 115 Applied Algebra (4-0-4). Prerequisite: MTH 087 or MTH 088 or suitable placement-test score. Extension of basic algebra techniques, linear equations, and linear inequalities, an introduction to functions, roots, radicals, exponents, quadratic equations, solution of second degree equations and applications, and the analysis and solution of word problems.

Courses for Humanities, Business, Education, and Social Sciences

Any course in this section, except MTH 127, is suitable for meeting the requirement of the **GenEd**. Credit earned in these courses does not count toward the mathematics major.

MTH 116 Foundations of Quantitative Literacy (4-0-4). Prerequisite: a grade of SC or better in MTH 087 or suitable placement-exam score. Not open to students who have previously earned credit for MTH 119. This course is designed to develop quantitative reasoning skills as applied to personal and social issues. Students will learn mathematics and basic statistics needed for success in other college courses, advancement of one's career, and understanding of major issues in life. This course is for students not planning to major in a field requiring advanced mathematical skills.

MTH 117 Mathematical Applications in the Real World (4-0-4). Prerequisite: MTH 116 or MTH 119. Not open to students who have previously earned credit for MTH 118. This course continues the development of quantitative reasoning skills as started in MTH 116. Topics in this course include the mathematics in population growth models, architecture, art, music, and voting systems. This course is for students not planning to major in a field requiring advanced mathematical skills.

MTH 127 Mathematics for Elementary School Teachers I (4-0-4). Prerequisite: A grade of SC or better in MTH 087 or suitable placement-test score. Topics needed to teach elementary and middle school mathematics, including numeration systems and whole number arithmetic, integers and number theory, rational and real numbers, problem solving, and applications.

MTH 128 Mathematics for Elementary School Teachers II (4-0-4). Prerequisite: MTH 127. Inlcudes additional topics for the elementary curriculum, such as geometry, measurement, and applications. The course will incorporate the use of appropriate computer software for the elementary school classroom, such as LOGO and Cabri.

MTH 129 Mathematics for Elementary School Teachers III (2-0-2). Prerequisite: MTH 127. Includes additional topics for the elementary curriculum, such as probability and statistics. The course will incorporate the use of appropriate technology for the elementary school classroom, such as the TI-73 calculator with the CBR and computer software Fathom and Excel.

MTH 147 Statistical Concepts with Applications (4-0-4). Prerequisite: A grade of SC or better in MTH 087 or suitable placement-test score. A first course in statistics that emphasizes statistical methodology as applied in the social and behavioral sciences, education, and business; topics include descriptive statistics, elementary probability, elementary sampling theory, estimation, hypothesis testing, regression and correlation.

MTH 148 Mathematics for Business Majors I (4 – 0 – 4) [Note: Course effective Fall 2010.] *Prerequisite:* a grade of SC or better in MTH 087 or suitable placement-exam score. The topics for this course include equations of lines, graphs of functions, word problems, polynomial models, and mathematical applications. The course shows students how to use exponential and logarithmic functions to study mathematical finance applications such as simple interest, discount, compound interest, present and future values, annuities and amortization. The course also covers systems of linear equations, matrices, and linear programming using optimization such as the Simplex method.

MTH 149 Mathematics for Business Majors II (4 – 0 – 4) [Note: Course effective Fall 2010.] *Prerequisite:* a grade of C or better in MTH148. The topics for this course include probability as it relates to computing empirical probability, conditional probability, and understanding independent events. Other topics include counting topics related to the multiplicative principle, permutations, and combinations. The course also includes material on the techniques of single and multivariate calculus that include methods and applications regarding rates of change, derivatives, anti-derivatives, integration, differential equations, partial derivatives and extrema of functions of several variables.

[Note: The following sequence of courses, MTH151-156, is being phased out, to be replaced by a two-semester sequence MTH148-149 offered for the first time Fall 2010. MTH 151-156 will not be offered past Spring 2011.]

MTH 151 through MTH 156 Mathematical Concepts. Each of these is a 1- or 2-credit course. Normally a student must register for MTH 151, 152, and 153, or for MTH 154, 155, and 156. One is taught at the beginning of the semester, one in the middle of the semester, and one at the end of the semester.

A graphing calculator is required for MTH 151 to 156. Consult the Mathematics Department for recommended models.

MTH 151 Mathematical Concepts 1a (1-0-1). [Note: offered for the last time Summer 2010.] Prerequisite: A grade of SC or better in MTH 087or suitable placement-test score. Equations of lines, word problems, linear, polynomial and rational inequalities, graphs of functions, linear and quadratic functions, and their applications.

MTH 152 Mathematical Concepts 1b (2-0-2). [Note: offered for the last time Fall 2010.] Prerequisite: MTH 151. Systems of three or more linear equations, Gauss-Jordan elimination, matrix methods, linear programming.

MTH 153 Mathematical Concepts 1c (1-0-1). [Note: offered for the last time Fall 2010.] Prerequisite: MTH 152. Polynomial, exponential, and logarithmic functions and graphs, math of finance.

MTH 154 Mathematical Concepts 2a (1-0-1). [Note: offered for the last time Summer 2010.] Prerequisite: MTH 153. Intuitive differential calculus, derivatives, applications of derivatives.

MTH 155 Mathematical Concepts 2b (2-0-2). [Note: offered for the last time Fall 2010.] Prerequisite: MTH 154. Intuitive integral calculus, anti-derivatives, the definite integral, applications, partial derivatives.

MTH 156 Mathematical Concepts 2c (1-0-1). [Note: offered for the last time Fall 2010.] Prerequisite: MTH 155. Probability, permutations, combinations, Bayes' Theorem.

Courses for Mathematics, Science, Engineering, Computer Science and Education Majors

Precalculus and First-Year Calculus Courses

The precalculus courses (MTH 167 and MTH 168) are designed for students who intend to take calculus (MTH 181) eventually and are not intended as general education courses. Depending on the placement-test score, a student starts with MTH 167 or with MTH 168. Credit earned in precalculus courses does not count toward the mathematics major.

A graphing calculator is required for MTH 167, 168, 181, and 182. Consult the Mathematics Department for recommended models.

MTH 167 Precalculus Mathematics I (4-0-4). Prerequisite: A grade of SC or better in MTH115 or suitable placement-test score. Brief review of intermediate algebra techniques, rectangular coordinates, graphs of equations; also functions, lines, circles, detailed study of functions, and graphing techniques. This course makes extensive use of the software ALEKS for computer assisted instruction, assessment, and testing. Some class meetings will be held in a computer laboratory setting and students are expected to use the software on a self-paced, out-of-class basis to supplement regular in-class meetings.

MTH 168 Precalculus Mathematics II (4-0-4). Prerequisite: A grade of C or better in MTH 167or suitable placement-test score. Topics include functions, polynomial and rational functions, exponential, logarithmic, trigonometric, and inverse trigonometric functions. *This course makes extensive use of the software ALEKS for computer assisted instruction, assessment, and testing. Some class meetings will be held in a computer laboratory setting and students are expected to use the software on a self-paced, out-of-class basis to supplement regular in-class meetings.*

MTH 181 Calculus I (4-0-4). Prerequisite: A grade of C or better in MTH 168 or suitable placement-test score. Topics covered include limits, derivatives, continuity, applications of derivatives, anti-derivatives and the definite integral. Graphing calculator required and used extensively.

MTH 181H Honors Calculus I (4-0-4). Prerequisites: A grade of C or better in MTH 168 or suitable placement-test score, Honors standing or permission of university Honors Program. Topics to be covered include limits, derivatives, continuity, applications of the derivative, anti-derivatives and the definite integral. It covers the same basic topics as MTH 181, but

with greater emphasis on rigorous treatment of the underlying mathematical ideas and real world applications. Course includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

MTH 182 Calculus II (4-0-4). Prerequisite: A grade of C or better in MTH 181. Topics to be covered include applications of integration, techniques of integration, improper integrals, infinite series, power series, polar coordinates, conic sections, and vectors. Graphing calculator required and used extensively.

MTH 182H Honors Calculus II (4-0-4). Prerequisites: A grade of C or better in MTH 181H or suitable placement-test score, Honors standing or permission of university Honors Program. Topics to be covered include applications of integration, techniques of integration, improper integrals, infinite series, power series, polar coordinates, conic sections, and vectors. This course covers the same basic topics as MTH 182, but with greater emphasis on rigorous treatment of the underlying mathematical ideas and real world applications. Course includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

Intermediate Courses

MTH 201 Functions and Modeling (3-0-3). Prerequisite: EUT 205. Enrollment is restricted to students seeking teaching licensure in the CSUTeach program. This course is designed to engage prospective secondary mathematics teachers in explorations and laboratory activities that will expand and strengthen knowledge and understanding of topics in the secondary mathematics curriculum. Connections between secondary and college mathematics will be illuminated; extensive use of technology will be integrated into solving non-routine problems and applying mathematics in real-world situations, which will be the primary focus. Explorations will involve the use of multiple representations, transformations, data analysis techniques (such as curve fitting) and interconnections among topics in algebra, analytic geometry, statistics, trigonometry, and calculus. No credit toward the mathematics major or minor.

MTH 220 Introduction to Discrete Mathematics (4-0-4). Prerequisites: A grade of C or better in one of MTH 149, 156, or 182. Topics include sets, relations, and functions; the concept of algorithm; and mathematical induction and recursive definition. Applications of these fundamentals are chosen at the instructor's discretion from graph theory, Boolean algebra, lattice theory, finite-state automata, elementary grammars, and the theory of recurrence relations. Course includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

MTH 281 Multivariable Calculus (4-0-4). Prerequisite: A grade of C or better in MTH 182. Topics include multivariate and vector calculus, three-dimensional analytic geometry, partial derivatives, multiple integrals, vector calculus, line integrals, Green's Theorem. Only 2 of the 4 credits may be counted toward graduation by students who have passed MTH 283. Course includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

MTH 283 Multivariable Calculus for Engineers (2-0-2). Prerequisite: A grade of C or better in MTH 182. Multivariate calculus topics include three-dimensional analytic geometry, partial derivatives, and multiple integrals. Students who have passed MTH 281 may not register for MTH 283. A student who attempts to do so will be given a grade of W.

MTH 284 Matrices for Engineers (2-0-2). Prerequisite: A grade of C or better in MTH 182. Matrix algebra topics include matrices and systems of linear equations, determinants, inverses, eigenvalues and eigenvectors. Students who have passed MTH 288 may not register for MTH 284. A student who attempts to do so will be given a grade of W.

MTH 286 Introduction to Differential Equations (4-0-4). Prerequisite: A grade of C or better in MTH 182. Topics include first-order differential equations, linear differential equations, first order systems, Laplace transform techniques, and applications. Course also includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

MTH 288 Linear Algebra (4-0-4). Prerequisite: A grade of C or better in MTH 182. Topics include systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues, and eigenvectors. Only two of the four credits may be counted toward graduation by students who have passed MTH 284. Course also includes an introduction to the use of a computer algebra system, such as Maple or MATLAB.

Advanced Courses

MTH 301 Introduction to Number Theory (4-0-4). Prerequisite:A grade of C or better in at least one of the courses MTH 220, MTH 281, MTH 282, MTH 284, MTH 286, or MTH 288, or instructor permission. . This course is an introduction to

number theory and its applications. Topics covered include divisibility, greatest common divisor and Euclid's algorithm, congruences the algebra of congruence classes, the theorems of Fermat and Euler, the Chinese Remainder Theorem, quadratic residues and primitive roots. Applications include cryptography, computer security, and coding theory. .

MTH 311 Numerical Analysis (4-0-4). Prerequisites: MTH 284 or MTH 288, MTH 286, and a computer programming language. Course covers numerical methods for solving nonlinear equations, systems of linear equations, interpolation problems, integration problems, and differential equations.

MTH 323 Statistical Methods (4-0-4). Prerequisites: MTH 182 and a 200-level mathematics course. Course covers issues of data collection, graphical and numerical summary techniques, basic probability, discrete random variables, continuous random variables, central limit theorem, confidence intervals, hypothesis testing of a proportion, hypothesis testing of a mean, 2 sample hypothesis testing, chi square testing, regression. Appropriate statistical software used extensively. MTH 323 counts toward the statistics minor; one course from MTH 323 or MTH 347 counts toward the mathematics minor, but not both.

MTH 326 Numbers, Patterns and Operations for Middle School Teachers (4-0-4). Prerequisite: Enrollment is restricted to students seeking middle childhood licensure with mathematics as one of their two areas of concentration or by permission of Mathematics Department chairperson. This course is an in-depth study of mathematical topics in middle school curricula in the area of numbers, patterns and operations. Topics include numeration concepts, concepts of measurement, study of rational and irrational numbers, proportionality, estimation and operations. No credit toward the mathematics major or minor.

MTH 327 Algebra and Functions for Middle School Teachers (4-0-4). Prerequisite: Enrollment is restricted to students seeking middle childhood licensure with mathematics as one of their two areas of concentration or by permission of Mathematics Department chairperson. This course emphasizes algebra as a powerful symbolic language for studying patterns, relations, and variation; for solving linear and quadratic equations and inequalities; and for modeling real life situations. Emphasis is placed on variables and functions in symbolic and graphical forms, especially linear, quadratic, exponential, logarithmic, and inverse functions. Goals include developing deep understandings of these topics as appropriate for middle school teachers. No credit toward the mathematics major or minor.

MTH 328 Measurement and Geometry of Middle School Teachers (4-0-4). Prerequisite: Enrollment is restricted to students seeking middle childhood licensure with mathematics as one of their two areas of concentration or by permission of Mathematics Department chairperson. This course is designed to increase the conceptual understanding of geometry for middle school teachers. Topics include dynamic geometry integrating use of computer software; basic geometry theorems and constructions; similarity, proportion, scaling, and geometric growth; tessellations; simple trigonometric relationships; van Hiele levels of geometric graphical representations; transformational geometry and analytic geometry. No credit toward the mathematics major or minor.

MTH 329 Data Analysis and Probability for Middle School Teachers (4-0-4). Prerequisite: Enrollment is restricted to students seeking middle childhood licensure with mathematics as one of their two areas of concentration or by permission of Mathematics Department chairperson.. An introduction to the concepts of calculus. Pictures and hands-on experiments are used to develop an overview of the big ideas and an appreciation of how calculus helps us understand the real world. Includes differentiation, integration, and applications of calculus to the real world. No credit toward the mathematics major or minor.

MTH 330 Conversational Calculus for Middle School Teachers (4-0-4). Prerequisite: MTH 327. Enrollment is restricted to students seeking middle-childhood licensure with mathematics as one of their two areas of concentration or by permission of Mathematics Department chairperson. This course is an introduction to the concepts of calculus. Pictures and hands-on experiments are used to develop an overview of the big ideas and an appreciation of how calculus helps us understand the real world. It includes differentiation, integration and applications of calculus to the real world. No credit toward the mathematics major or minor.

MTH 333 Geometry (4-0-4). Prerequisite: MTH 284 or MTH 288. The main focus is on two-dimensional Euclidean geometry. Basic topics covered include congruence, parallelism, area, and similarity. These are discussed from the axiomatic point of view. Other topics include transformation geometry, non-Euclidean geometry, vectors in geometry and some three-dimensional Euclidean geometry. Many applications are given, such as analysis of repeating patterns, computer graphics, cartography, and robot arm motion. Dynamic geometry software, and physical models and manipulatives will be used.

MTH 347 Applied Statistics (4-0-4). Prerequisite: A grade of "C" or better in MTH 147, MTH 323, PSY 311, COM 303, ECN 322, ESC 310, OSM 201, PSC 351, SOC 353, SWK 305, or UST 404. Topics include simple linear regression, analysis of variance, nonparametric statistics, multiple and logistic regression, statistical process control, and basic time series analysis. This course emphasizes the applied nature of statistical analysis and requires using a statistical analysis software package. It counts toward the statistics minor; no credit toward the mathematics major. One course from MTH 323 or MTH 347 counts toward the mathematics minor, but not both.

MTH 358 Abstract Algebra (4-0-4). Prerequisite: MTH 288 . This course is an introduction to modern abstract algebra, concentrating on the integers and number theory, rings, fields, polynomials, and applications of these concepts.It includes use of a computer algebra system, such as Maple or MATLAB.

MTH 386 Differential Equations (4-0-4). Prerequisites: MTH 281 and MTH 288 or MTH 283 and MTH 284, and MTH 286. This course covers series solutions of second-order linear equations, qualitative behavior of linear and almost linear systems of first-order differential equations, boundary value problems, introduction to partial differential equations. Course includes use of a computer algebra system, such as Maple or MATLAB.

MTH 390 Foundations of Computing (3-0-3). Prerequisites: MTH 181, 182, MTH 220, and CIS 335; Mathematics majors may substitute one mathematics course numbered 280 or above for CIS 335. Topics include sets, relations, regular languages, finite automata, context-free languages, pushdown automata, phrase-structure languages, Turing machines, Church's theory, recursion, computability, decidability, and computational complexity. It is cross-listed with CIS 490.

MTH 396 Junior Seminar (2-0-2). Prerequisites: MTH 182; three of MTH 220, MTH 281, MTH 286 and MTH 288, all grade "C" or better; or departmental approval. Weekly meetings introduce students to a wide range of mathematical topics and also include workshops on various aspects of writing cogent and well-formulated technical reports in mathematics. A focus throughout the semester will be on appreciating the historical development of mathematical topics encountered throughout the undergraduate curriculum. A primary goal of this course is to prepare the student for MTH 496 Senior Project. Successful completion of the course requires the student having an approved topic and supervisor for MTH 496.

MTH 401 Mathematical Modeling (4-0-4). Prerequisites: MTH 284 or MTH 288, MTH 286, and at least one mathematics course numbered 300 or above (MTH 301 recommended). Topics include deterministic and probabilistic models chosen from the areas of linear optimization, Markov chains, game theory, graphs and networks, axiom systems, growth processes, and queuing systems. This course includesthe use of a computer algebra system, such as Maple or MATLAB.

MTH 415 Real Analysis (4-0-4). Prerequisite: A grade of C or better in MTH 281 or MTH 283, a grade of C or better in at least one mathematics course numbered 300 or above, or permission of instructor. This course gives a rigorous introduction to the real numbers. Topics include sequences and series, basic topology of the real numbers, functional limits and continuity, the derivative, sequences and series of functions, the Riemann integral, and metric spaces. The major application is Fourier series.

MTH 416 Complex Analyses (4-0-4). Prerequisite: A grade of C or better in MTH 281 or MTH 283, a grade of C or better in at least one mathematics course numbered 300 or above or permission of instructor. This course deals with the fundamentals of complex analysis, including basic properties of complex numbers, analytic functions, harmonic functions, integration, Taylor and Laurent series, residue calculus, conformal mapping, and their applications.

MTH 420 Combinatorial Mathematics (4-0-4). Prerequisite: At least one mathematics course numbered 300 or above. This course is a survey of combinatorial methods, including binomial coefficients and other special numbers, recurrence relations, calculus of finite differences, and generating functions, emphasizing exact evaluation of combinatorial sums in closed form. The course includes use of a computer algebra system, such as Maple or MATLAB.

MTH 421 Time Series Analysis (4-0-4). Prerequisite: MTH 347 with a grade of "C" or better or permission of instructor. The course covers techniques of modeling data that are collected sequentially. Topics include a review of basic ideas of modeling a continuous variable, time series regression, autocorrelation, decomposition methods, exponential smoothing, ARMA (Autoregressive Moving Average) models, and ARIMA (Autoregressive Integrated Moving Average) models. The course uses a statistical programming language. Data from a variety of fields will be studied. Counts toward the statistics minor; does not count toward the minor, , B.A., or B.S. in Mathematics.

MTH 424 Probability Theory and Applications (4-0-4). Prerequisites: MTH 281 or MTH 283, MTH 284 or MTH 288, and a 300-level mathematics course. This course covers general probability (set functions, basic axioms, independence); Bayes' theorem; univariate probability distributions (probabilities, moments, variance, mode, percentiles, transformations); multivariate probability distributions (central limit theorem, joint conditional and marginal distributions - probabilities, moments, variance, covariance); discrete and continuous time Markov chains; and selected applications. Course makes extensive use of appropriate software.

MTH 431 Categorical Data Analysis (4-0-4). Prerequisite: MTH 347 with a grade of "C" or better or permission of instructor. The course covers techniques of modeling data for data that are categorical rather than continuous in nature. Topics include joint, marginal, and conditional probabilities, relative risk, odds ratios, generalized linear models, logistic regression, multi-category logit models, and loglinear models. The course utilizes data examples from the fields of biology, medicine, health, epidemiology, environmental science, and psychology; it uses a statistical programming language and counts toward the statistics minor; it does not count toward the minor, B.A. or B.S. in Mathematics.

MTH 434 Differential Geometry (4-0-4). Prerequisites: MTH 281 or MTH 283, MTH 286, and at least one mathematics course numbered 300 or above. This course focuses on the calculus, linear algebra, and geometry of curves and surfaces, as well as applications to engineering and science. Material covered includes the curvature and torsion of curves, Gaussian and mean curvatures of surfaces, minimal surfaces, geodesics, holonomy, and the Gauss-Bonnet theorem. Optional material includes applications of the calculus of variations to geometry and of minimal surface theory to soap film formation. The course makes extensive use of a computer algebra system, such as Maple.

MTH 435 Statistical Consulting (4-0-4). Prerequisite: MTH 347 with a grade of "C" or better, senior standing, or permission of instructor. This course assigns students to work in consulting teams with university or community partners on real-world case studies of statistical methods learned in previous courses. Students prepare written reports and oral presentations that discuss the findings of the analysis. In addition, students learn data manipulation and graphics skills involving the SAS and R software packages. The course counts toward statistics minor; does not count toward the minor, BA, or BS in Mathematics.

MTH 482 Topics in Number Theory (4-0-4). Prerequisite: A grade of C or better in a course of level 300 or above in one of the following disciplines, MTH, CIS, EEC, EET, ESC; or instructor permission. This course presents advanced topics in number theory. Topics may include primality testing, prime number generation, integer factorization, discrete logarithms, elliptic curves and advanced cryptographic protocols, and other topics chosen by the instructor.

MTH 487 Dynamical Systems (4-0-4). Prerequisites: MTH 284 or MTH 288, MTH 286, and at least one mathematics course numbered 300 or above. Topics include systems of differential equations, local and global behavior of a vector field in the plane, discrete dynamical systems, structural stability, the Poincare-Bendixon theorem, bifurcations, chaos, and strange attractors. The course includes use of a computer algebra system, such as Maple or MATLAB.

MTH 491 Financial Mathematics (4-0-4). Prerequisites: MTH 281 or 283, or permission of the instructor. This course covers basic mathematical interest theory and time value of money, annuities, loan repayment, bonds, equations of value and yield rates, interest rate sensitivity, stocks and financial markets, arbitrage, term structure of interest rates and derivatives. It is designed to prepare students for the SOA Exam FM/CAS Exam 2 (Financial Mathematics Exam).

MTH 493 Special Topics in Mathematics (4-0-4). Prerequisite: At least one mathematics course numbered 300 or above, or permission of instructor. This is a detailed study of a selected topic in advanced mathematics. The topic will vary, depending on instructor. It may be taken for credit more than once, but no single topic may be repeated. Please consult the Mathematics Department for current information.

MTH 493H Special Topics in Mathematics Honors (4-0-4). Prerequisites: At least one mathematics course at the 300 level or above, plus approval of the Department Honors Liaison Officer. This is a detailed study of a selected topic in advanced mathematics. Topics will vary, depending on instructor. This course may be taken for credit more than once, but no single topic may be repeated. It demands mathematical rigor to a degree beyond regular mathematics courses. In addition, students play a more active role in the discovery and exploration of mathematical truth. Consult the Mathematics Department for current information.

MTH 496 Senior Project (4-0-4). Prerequisites: MTH 396 (grade of S) and at least two other mathematics courses numbered 300 or above, or departmental approval. Prerequisite or co-requisite: At least one other mathematics course

numbered 400 or above, or departmental approval. Working individually with a faculty supervisor, each student will read papers in technical journals, make an oral presentation, and write a technical report.

MTH 496H Honors Project (4-0-4). Prerequisites: At least two mathematics courses numbered 300 or above, plus approval of the Department Honors Liaison Officer. Students will work individually with a mathematics faculty investigating a mathematical or statistical topic of mutual interest. Students will be required to read articles assigned by the faculty member. A student's work will consist of a written pre-proposal, and a final paper complete with Abstract, Introduction, Methods, Results, Discussion, and References. In addition, students will give an oral presentation of their work to department faculty and students.

MTH 497 Readings in Mathematics (1 to 4 credits). Prerequisite: Departmental approval. Topics studied under supervision of an adviser.

Mechanical Engineering Courses

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- Back to Course Index

Faculty

Professors: John L. Frater, Rama S. R. Gorla, Mounir B. Ibrahim, Edward G. Keshock, Paul P. Lin (Interim Associate Dean), Majid Rashidi, Jerzy T. Sawicki; **Professors Emeriti:** Lowell C. Domholdt; **Associate Professors:** William J. Atherton, Asuquo B. Ebiana, Earnest N. Poulos; **Associate Professors Emeriti:** William F. Kerka; **Assistant Professor:** Hanz Richter.

Course Descriptions

MCE 255 Computer Aided Engineering Design (4-0-4). Integration of computer-aided design with computer-aided manufacturing and engineering; introduction to optimum design.

MCE 305 Kinematics and Dynamics of Machinery (4-0-4). Prerequisite: ESC 202. Displacements, velocities, accelerations in mechanisms; cam design; dynamics of machinery.

MCE 324 Introduction to Heat Transfer (4-0-4). Prerequisites: ESC 250, ESC 301, ESC 321. Steady and unsteady conduction in one- and two-dimensions; forced convection, internal and external flows; heat exchangers; introduction to radiation; elements of thermal system design.

MCE 367 Machine Design (4-0-4). Prerequisite: ESC 211. Design of machine elements under static and fatigue loading; design and application of gearing; force analysis of spur, helical, bevel and worm gears; design of gears for static and fatigue loading; use of keys, pins, and splines to attach gears to shafts.

MCE 371 Vibrations (4-0-4). Prerequisite: ESC 250. Study of vibration and shock problems in machinery and machine design.

MCE 380 Instrumentation and Measurements Laboratory (2-3-3). Prerequisite: ESC 315. Corequisite: MCE 324. Introduction to engineering measurements, standards and calibration, sensors and measurement system characteristics, signal conditioning and digital signal processing, instrumentation interfacing concepts, and measurement errors.

MCE 403 Modeling and Simulation of Mechatronic Systems (3-1-4). Co-requisite: MCE 441. Unified approach to modeling of dynamic systems using bond graphs, with emphasis in electromechanical systems. Object-oriented and automated modeling concepts. Computer simulation and model validation.

MCE 421 Applied Thermodynamics (4-0-4). Prerequisite: ESC 321. Selected thermodynamic cycles applied to real machines and systems, chemical reaction, dissociation phenomena, selected topics in classical thermodynamics.

MCE 424 Applied Heat Transfer (4-0-4). Prerequisite: MCE 324. Convective heat and mass transfer analogies, free convection, phase change, radiation in enclosure and gaseous media, mass diffusion, thermal systems analysis and design (including heat exchangers, heat pipes, solar systems, humidifiers).

MCE 425 Heating, Ventilating, and Air Conditioning (3-0-3). Prerequisite: MCE 324. Design of heating, air-conditioning, and total-energy systems to provide thermal environments for building structures ranging in scope from single residence to integrated commercial, apartment, or industrial complexes. Course includes factors affecting human comfort, psychrometrics, heating and air-conditioning systems, heat pumps, geothermal systems, and utilization of solar energy; computer simulation of transient and steady-state heating and cooling loads in buildings; the selection of controls and appropriate equipment size.

MCE 430 Applied Fluid Mechanics (4-0-4). Prerequisite: ESC 301. Navier-Stokes equations and boundary layer analysis; introduction to compressible flow; fundamentals of turbomachinery; propulsion systems; fluid systems analysis and design.

MCE 441 Introduction to Linear Control Systems (4-0-4). Prerequisites: ESC 350, MCE 371. Introduction to mathematical modeling and design of systems using one- and two-port devices; controller design; stability analysis; root locus techniques; Bode diagrams; transient and steady-state response and design of closed loop control systems.

MCE 444 Applied Combustion Processes (4-0-4). Prerequisites: MCE 324, MCE 421. Review of chemical kinetics; conservation equations for multicomponent reacting systems; premixed laminar and turbulent flames.

MCE 445 Modern Controls (4-0-4). Prerequisites: MCE 441. Classical design of control systems; state space analysis; state space design of regulator systems; linear quadratic regulator problem; optimal observer design; computer simulation of control systems.

MCE 446 Principles of Turbomachinery and Applications (4-0-4). Prerequisites: ESC 301, ESC 321. Derivation of fluid and thermodynamic relations along with passage losses for turbomachinery. Applications include analysis and design of axial and radial flow turbines, compressors and pumps.

MCE 450 Design Project I (2-0-2). Prerequisite: Completion of junior year program in mechanical engineering. Course requires the preparation of an engineering system design or project proposal covering problem identification, conceptual design, and the schedule of work required to carry out the project. (Projects are carried out in MCE 451 in a subsequent term.) Concurrent seminars on methodology, decision-making, and design evaluations.

MCE 451 Design Project II (0-3-2). Prerequisite: MCE 450. Execution of engineering system project planned in MCE 450. Formal report and presentation required.

MCE 465 Advanced Machine Analysis (4-0-4). Prerequisite: MCE 367. Finite Element analysis of stresses and deflections in complex mechanical systems under static and dynamic loading. Integrating modeling techniques with 2D- and 3D-CAD systems for inputting geometric data. Comparisons of finite element results with theoretical and empirical results.

MCE 467 Lubrication and Bearing Design (4-0-4). Prerequisite: MCE 367. Design of bearings for hydrodynamic, hydrostatic, and elastohydrodynamic lubrication regimes. Cross-listed with MCE 567.

MCE 483 Thermal Systems Laboratory (2-3-3). Prerequisites: MCE 324, MCE 380. Experimentation and analysis of thermal/fluid systems, energy balances, performance measurements of devices and systems, data analysis and correlation, elements of experimental design.

MCE 484 Mechanical Systems Control Laboratory (2-3-3). Prerequisites: MCE 380, MCE 441 . Application of linear control theory to experimental study of mechanical, hydraulic, pneumatic control systems, simulation of control systems.

MCE 485 Fluid Power Systems Laboratory (2-3-3). Prerequisites: ESC 301, MCE 371, MCE 380. Introduction to hydraulic and pneumatic fluid power components and systems, analysis and design of components and systems, experimental verification of system modeling.

MCE 493 Special Topics in Mechanical Engineering (4-0-4). Prerequisites: Senior standing and permission of individual instructor. Special offering of course material in an area of current interest to students, faculty, and the professional community.

MCE 496 Independent Study (4-0-4). Prerequisites: Senior standing, GPA of 3.0, departmental approval. Independent research of a topic not previously studied in other mechanical engineering courses. Offered under the supervision of a faculty member. A formal report is required.

MCE 499H Honors Thesis (4-0-4). Prerequisite: Senior standing, honors student. The honors student works with a faculty adviser to form a thesis committee, develop a topic, write, and orally defend his or her thesis.

Military Science Courses

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Course Descriptions

Note: Enrollment in MSC 100- and 200-level courses is normally for freshmen and sophomores. The MSC 300- and 400-level classes require prior approval of the Military Science Department.

MSC 101 Intro to Leadership I (1-0-1). One hour of class per week focusing on several topics including organization and role of the U.S. Army, customs and traditions of the military, time management, and Army values. Lecture format and student discussion are used to reinforce basic leadership skills.

MSC 102 Intro to Leadership II (1-0-1). One hour of class per week focusing on leadership development. Topics include branches of the Army, problem solving, communications, and current military issues. Emphasis on basic leadership skills is accomplished through lecture and student interaction.

MSC 201 Team Leadership I (1-1-2). Two hours of classroom instruction per week focusing on map reading and leadership. Various leadership styles are examined through use of military literature and video. MSC 299, Military Science Lab, is a corequisite for contracted cadets only.

MSC 202 Team Leadership II (1-1-2). Two hours of classroom instruction per week focusing on leadership and teamwork. Examples of military leadership are reviewed in literature and video. MSC 299, Military Science Lab, is a corequisite for contracted cadets only.

MSC 299 Intermediate Military Science II Lab. Prerequisite: Concurrent enrollment in MSC 201, 202, or 203. Lab stresses practical experience in basic soldierly skills while preparing cadets for Advanced Military Science.

MSC 301 Leading Small Organizations I (2-2-2). Prerequisite: Prior approval of Military Science Department. Two classroom hours in seminar format with practical exercises. Course covers the principles of modern warfare, small unit tactics, leadership, operations orders. Class in concert with the MSC 399 Lab, a corequisite, will also provide preparation for the Advanced Summer Camp.

MSC 302 Leading Small Organizations II (2-2-2). Prerequisite: Prior approval of Military Science Department. Two classroom hours in seminar format with practical exercises. Course covers small unit tactics, patrolling, leadership, communications, and navigation. Class in concert with the MSC 399 Lab, a corequisite, will also provide preparation for the Advanced Summer Camp.

MSC 399 Junior Military Science Lab. Prerequisites: Prior approval of Military Science Department and concurrent enrollment in MSC 301 or 302. Lab stresses practical experience and involvement in leadership, tactics, navigation, communications, and operations planning. Each student will be provided many opportunities for leadership through practical exercises.

MSC 401 Transition to Lieutenant I (2-0-2). Prerequisite: Prior approval of Military Science Department. Two hours of classroom instruction covers United States Army staff procedures with emphasis on administration, training management, and logistical management. Leadership portion discusses various leadership theories and ethics and professionalism.

MSC 402 Transition to Lieutenant II (2-0-2). Prerequisite: Prior approval of Military Science Department. Two hours of classroom instruction covering topics of concern for the junior officer, including military justice, race relations, and drug and alcohol abuse. The course also covers those areas of military life that all junior officers will face, including discussion of subjects such as superior/subordinate relationships, pay and leave policy, military benefits, education, and promotion opportunities.

MSC 499 Military Science Lab. Prerequisite: Prior approval of Military Science Department. Lab stresses practical application of leadership and management skills, while staffing the Cadet Battalion. Prepares cadets for assumption of their responsibility in the Army's Active and Reserve Components.

Modern Languages Courses

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Faculty

Link to Department Personnel
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Professors: Tama L. Engelking (Chairperson**Professors Emeriti:** Bruce A. Beatie, Edward Haymes, Laura Martin, John M. Purcell, Anita Stoll, Philippa Brown Yin; **Associate Professors:** Hebat El-Attar, Delia V. Galván, Annie Jouan-Westlund, Antonio Medina-Rivera, , Lee Wilberschied, Stephen Gingerich; **Assistant Professors:** Abed Tayyara, Kelly Wrenhaven.

Course Descriptions

MLA courses include culture and literature courses taught in English, in addition to language courses in areas of expanding need in today's global culture. The culture courses and literature courses may cross borders and time periods. The language courses provide both practical linguistic training in the written and spoken languages and an introduction to the cultures of these languages. Building a good resume for career travel or work overseas, or your interests in other languages and cultures that work well with another major, are all reasons to study Portuguese, Russian, or Quechua.

All language courses have the following divisions and courses numbered from:

100-114 (200-214, etc.) concern the development of performance skills;

115-34 (215-234, etc.), the nature of language;

135-64 (235-264, etc.), culture and civilization;

165-89 (265-289, etc.), literature;

190-99 (290-299, etc.), independent and specialized courses.

As performance skills develop through progression in the learning sequence, the skills are used increasingly to introduce students to subject matter in the areas of culture, linguistics, and literature.

All language skill courses require work outside of class time in the language laboratory. Students who are to some degree native speakers of a particular language or who have acquired a speaking ability in a particular language will generally not be permitted to enroll in 100-level courses for credit in that language.

English majors should talk with their English adviser for information on counting courses offered by the Department of Modern Languages toward their major.

Courses listed below cut across the boundaries of specific languages. For courses in specific languages, literatures, and civilizations, see the course listings under Arabic, Chinese, French, German, Greek, Italian, Japanese, Latin, Slovenian, and Spanish.

MLA 101 102 Modern Languages I, II (4-2-5). Prerequisites: For MLA 101: None: For MLA 102 in a sequence: Completion of MLA 101 with a C or better or permission of instructor. This course involves the development of proficiency in speaking, understanding, reading, and writing a foreign language (such as Portuguese, Russian, Quechua) which are not regularly offered by the department. It may be repeated for credit with a change of language. There is a lab fee.

MLA 115 Contemporary Western Cultures (3-0-3). This is an introduction to two contemporary cultures, for example: France and Germany, or Spain and Italy. It is taught in English.

MLA 116 Contemporary Nonwestern Cultures (3-0-3). This is an introduction to two or more Nonwestern cultures, for example: Francophone and Hispanic Caribbean. It is taught in English.

MLA 140 240 - 340 - 440 Field Experience Abroad (1 to 6 Credits). Prerequisites: Permission of instructor, departmental approval. The amount of language preparation necessary to participate in any given field experience is determined by the department and instructor. This course is a specially arranged field experience abroad providing intensive exposure to students' target countries and languages. It may be preceded by a special preparatory course. Examples include supervised individual or group work-study experience in the target country followed by a period of travel; and supervised two- to six-week group travel for students interested in a language- or culture-oriented project in the target country. See semester course schedule and contact the department office for further information.

MLA 192 292 - 392 - 492 Special Topics: Study Abroad (1 to 6 Credits). Prerequisite: Permission of instructor. This course is the study of a particular topic in a foreign language, literature, or civilization as part of the university's Study Abroad Program. It may be repeated with change of topic.

MLA 196 296 - 396 - 496 Independent Study (1 to 4 Credits). Prerequisites: Student must have sophomore, junior, or senior standing. Proposed projects must be approved by a full-time department faculty member (who will serve as the project adviser) and the department chairman. The course involves student-initiated supervised projects involving non-native languages or literatures. Examples include in-depth study of a particular writer, special readings in linguistics or significance of Hungarian culture in Cleveland politics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged between individual students and instructor; title of the project will appear on the student's transcript; abbreviation of the course will reflect the language area or be designated MLA. It may be repeated for credit with change of topic.

MLA 200 300-400 Practicum in Language (1 to 4 Credits). Prerequisites: Permission of instructor, departmental approval. Specially arranged projects or supervised experiences using non-native languages conducted in the university and in the community. Examples include special work in the Instructional Media Laboratory, participation in a foreign-language play, tutorial activity in a basic language skills course, and a study or service project involving field work in one of the Cleveland ethnic communities. Projects are arranged between individual students and instructors; title of the project will appear on the student's transcript; abbreviation of the course will reflect the language area or be designated MLA. It may be repeated for credit. Grading is S/U only.

MLA 201 Words: An Introduction to Etymology (4-0-4). This is a study of the way English words came to have the meanings they do, with emphasis on the Greek and Latin roots of English words; it also increases both active and passive vocabulary and refines accuracy of understanding and use of English. It is especially useful for students in the sciences and in law.

MLA 204 Nonwestern World Literature (4-0-4). This is an introduction to nonwestern literature that examines a range of texts by indigenous and diasporic peoples. This course considers the diverse and changing shape of non-western literatures from a variety of different regions that may include the Americas, Asia, Africa, the Pacific Rim, and the African diaspora. It may be cross-listed with ENG 204.

MLA 230 330 Gods, Heroes and Ritual: An Introduction to Greek Myth and Religion (4-0-4). This course provides an introduction to Greek mythology and religion and considers their roles in the contexts of Greek culture and thought. Literary and material sources, such as epic, drama, architecture, sculpture, and vase painting, areexamined in order to establish the nature and function of myth and religion in Greek society. Topics include the gods, heroes, cult, local mythic traditions, religious festivals, oracles, and healing sanctuaries.

MLA 235 ArabFilm (4-0-4).. This course uses Arab films to introduce students to major cultural features of the Arab world. Course is taught in English. It may be cross-listed with ARB 335.

MLA 245 Arabic Resources of Cleveland/ Service Learning (1 to 4 variable credits).. Prerequisite: ARB 102, or permission of instructor. This is a service learning course that complements class meetings with field study assignments to engage students with Arabic-speaking communities in the Cleveland area. Readings and writings are in English, but some knowledge of Arabic is required. It may be cross-listed with ARB 345.

MLA 255 Western European Film (4-0-4).. This is an overview of Western European film during the rise of the European Union. Students learn to analyze and discuss recent European movies and relate the narratives and representational strategies for films from a variety of countries to the moment of production in contemporary Europe and to social and political issues that European cultures share with the United States.

MLA 260 Language, Society, and Culture (3-0-3). This is an introduction to the study of linguistics and of language in its social and cultural contexts.

MLA 265 Francophone Literature in Translation (4-0-4). This course includes a survey of literary works originally written in French from across the Francophone world. It includes Northern and Sub-Saharan Africa, the Caribbean and immigrant communities in France and Quebec. Works are examined in their cultural contexts in order to compare features such as the impact of colonialism and the role of women. It may be cross-listed with FRN 375.

MLA 280 Women in the Arab World (4-0-4).. This course examines women in Arab societies as portrayed in literature, film and art. It focuses on questions of identity related to topics such as family roles, religion, education, and politics. Readings and writings are in Arabic. It may be cross-listed with ARB 380.

MLA 318 Language Analysis (2 to 4 credits). Prerequisite: Introductory linguistics course or strong background in a foreign language. Topics may include Sanskrit, Hittite, Classical Armenian, Old English, Old Norse, or Gothic, studied with an emphasis on grammar and linguistic issues. It may be repeated as the continuing study of one language, or with a change of topic. A two-semester sequence of one language (such as Sanskrit I and II), or a semester of Old English followed by a semester of Old Norse or Gothic, may count toward satisfying the foreign language requirement. Students who take Sanskrit I and II (4 credits each) may take a second year of Sanskrit III and IV (2 credits each). It is cross-listed with LIN 318 and ENG 318.

MLA 325 Introduction to Linguistics (3-0-3). This is an introduction to the scientific study of language with emphasis on languages other than English. Topics include principles of linguistic analysis, languages and culture, and linguistics in relation to other fields. It is recommended for language majors.

MLA 342 Languages in Contact (4-0-4). This is an exploration of relationships between language usage and cultural behavior. Central issues include connections between linguistic and cultural categories, social and institutional effects of language variation, consequences of linguistic and cultural change, language and social role, and role of language in forming social policy. It is in seminar format emphasizing skills of analysis, synthesis, and problem-solving. It is cross-listed with ANT 342 and LIN 342. This is a Linguistic Studies course.

MLA 347 Maya Hieroglyphic Writing I (4-0-4). This is an introduction to Classic Maya writing and texts from a linguistic and anthropological perspective. Students study the origins and functions of writing in Ancient Mesoamerica, examine the relationship of spoken languages to the script, and learn to decipher, analyze and interpret Maya hieroglyphic texts for information of general anthropological and linguistic interest such as dynastic history, social organization, ritual, cosmology and belief system.

MLA 370 Athenian Drama in Context (4-0-4). An introduction to ancient Greek drama (tragedy and comedy). Will examine a variety of plays from each of Athens' major dramatists. Particular consideration will be given to the historical and intellectual contexts in which the plays were performed and the reception of Greek drama in modern film and performance. Cross-listed with ENG 330.

MLA 447 Maya Hieroglyphic Writing II (4-0-4). Prerequisite: MLA 347, Maya Hieroglyphic Writing I. Building on the basic knowledge and skills learned in MLA 347, students decipher increasingly more challenging texts in order to reach a more sophisticated understanding of Maya hieroglyphic decipherment, and its indications for understanding and revising history of Classic Maya civilizations.

MLA 493 Special Topics in Culture and Civilization (1 to 6). Topics are announced in semester course schedule. It may be repeated for credit with change of topic.

Music Courses

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Faculty

Link to Department Personnel
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Professors: Angelin Chang, Rita Klinger, Howard Meeker, Andrew Rindfleisch, Eric Ziolek (Chairperson); **Professors Emeriti:** J. Heywood Alexander, Albert Blaser, Judith Eckelmeyer, John A. Flower, Edwin London, William R. Martin; Howie Smith **Associate Professors:**, Birch Browning, Elizabeth Unis Chesko, Gregory D'Alessio, Victor Liva, John Perrine**Associate Professor Emeritus:** Ernest Hisey; **Assistant Professors:**; Lily Hirsch. **Applied Music Faculty:** Gary Adams (tuba), George Bachmann (guitar), Daniel Barber (piano), Lee Bush (guitar),Charles Carleton (string bass), Robert Cassidy (piano), Treneere Cheshier (French horn), Charles Couch (trumpet), Mark DeMio (bassoon), Scott Dixon (string bass), Bryan Dumm (cello), Molly Fung Dumm (violin),), Robert Fraser (guitar), Tom Freer (percussion), Sean Gabriel (flute), Jody Guinn (harp), Hanne-berit Hahnemann (violin), , David Alan Harrell (cello), Christine Hill (piano), Glenn Holmes (jazz string bass), Shachar Israel (trombone), Theodore Johnson (clarinet), Arthur Klima (viola), Rebecca Mayhew (oboe David McGuire (oboe), Eileen Moore (voice), Peter Otto (violin), Joanna Patterson (viola), Noriko Paukert (voice), Maria Pla (piano), William Ransom (jazz drums), Christiana Reader, (viola),, George Shernit (saxophone), Margaret Scharf (organ), Jason Smith (trombone & euphonium), Yasuhito Sugiyama (tuba), Rock Wehrmann (jazz piano); Feza Zweifel (percussion) **Adjunct classroom faculty:** Melanie Blaser, Leo Coach, Alvin Fulton, Fritz Schaufele, Stephen Stanziano, Nicholas Underhill, Frank Vazzano.

Course Descriptions

See also Applied Music Courses (Performance)

MUS 101 University Chorus (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Open to university community at large, the University Chorus sings a wide variety of repertoire, including multicultural works as well as those from the European tradition. Basic music reading skills pertaining to choral singing will be developed. May be repeated for credit.

MUS 102 Band/ Wind Ensemble (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Repertoire selected according to nature of each performance, with emphasis on music written specifically for wind band. Chamber Winds (one player per part) is listed as a different section number under this course when offered. May be repeated for credit.

MUS 103 Collegium Musicum (0-4-1). Prerequisite: Membership by audition. Small ensemble of singers and instrumentalists for the study and performance of music of all eras, with emphasis on works written prior to 1750. May be repeated and may be taken with or without credit.

MUS 104 University Orchestra (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Orchestral repertoire from the various stylistic periods prepared and performed in three concerts per semester. May be repeated for credit.

MUS 105 CSU Chorale (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Select ensemble of approximately 30 voices chosen by audition from the student body; provides advanced challenge and opportunity to those with singing experience; music of various genres and stylistic eras. May be repeated for credit.

MUS 106 Chamber Ensembles (0-2-1). For those participating in student recitals. Ensembles of one person per part, working under faculty supervision. Chamber Ensemble credit cannot be earned by student receiving recital credit for the same project. May be repeated for credit, but credit awarded only once for any particular project.

MUS 107 Jazz Ensemble (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Provides experience in reading and performing jazz band arrangements and compositions. May be repeated for credit.

MUS 108 Opera Theater Workshop (0-4-1). Prerequisite: Open to any university student with permission of instructor at first rehearsal. Practical experience in performance and production of opera scenes, including theatrical improvisation and stage movement. May be repeated for credit.

MUS 109 New Music Ensemble (0-4-1). Prerequisite: Permission of instructor. A performing chamber ensemble dedicated to music literature composed since 1950 with emphasis on more recent literature. May be repeated for credit.

MUS 111 The Enjoyment of Music (4-0-4). An introductory course in classical music, principally through aural understanding. Live and recorded listening experiences.

MUS 113 Writing about Music (3-0 3). Prerequisites: ENG 101 and music major/ minor status only. Builds on skills of English 101 while developing basic research skills, information literacy and preparation of writing assignments, specifically short essays such as a set of recital program notes, a historical or analytical essay, and an extended research paper on a musical subject. English: Equivalent to ENG 102.

MUS 116 Collaborative Piano and Accompanying (3-0-3). Instruction in the technique and art of musical collaboration on the piano.

MUS 122 Materials of Music (3-0-3). Open to any university student. Survey course with drills and creative exercises in reading and writing basic pitch and rhythmic materials of music.

MUS 151 Jazz Survey (4-0-4). An introductory course in jazz with a broad overview of its performers, composers, and styles. Live and recorded listening experiences.

MUS 161 Roots of Rock and Soul (4-0-4). Survey of the roots and development of rhythm and blues, rock and roll, and soul music with an examination of social causes and effects; commonalities to art music and role in culture in the United States.

MUS 205 Orientation to Music Education (1-1-1). Survey of general, choral, and instrumental music at elementary and secondary levels in selected urban and suburban schools. Includes lecture and discussions on campus and observations in schools.

MUS 218 Composition Studies I (3-0-3). Prerequisite: Permission of instructor. Study sessions with composition faculty. Independent projects explore large and small forms, compositional techniques, and modes of expression for various media. May be repeated for credit. A weekly composition forum is part of this course.

MUS 231 Harmony and Form I (3-0-3). Prerequisite: none. Harmonic, rhythmic and formal practices in tonal music of the common practice period. Correlated creative work and analysis.

MUS 232 Harmony and Form II (3-0-3). Prerequisite: MUS 231 with a grade of C or better, or equivalent. Harmonic, rhythmic, and formal procedures in music from J.S. Bach through the Classic Era. Correlated creative work and analysis.

MUS 233 Harmony and Form III (3-0-3). Prerequisite: MUS 232 with a grade of C or better, or equivalent. Harmonic, rhythmic, and formal procedures in music from Beethoven through the chromatic music of the late 19th century. Correlated creative work and analysis.

MUS 234 Harmony and Form IV (3-0-3). Prerequisite: MUS 233 with a grade of C or better, or equivalent. Harmonic, rhythmic, and formal procedures in music from Impressionism through the 20th century. Correlated creative work and analysis.

MUS 235 Jazz and Pop Music Harmony and Form I (3-0-3). Prerequisite: MUS 232 with a grade of C or better, or equivalent. For B.A. majors and those whose major ensemble is jazz ensemble. Study of the harmonic language and formal designs of jazz and pop music in the first half of the twentieth century. This will include knowledge of the uses of harmony, song forms, keyboard skills, songwriting and performance. The course is structured along historical lines so a grounding in the musicological evolution of popular styles is also provided.

MUS 236 Jazz and Pop Music Harmony and Form II (3-0-3). Prerequisite: MUS 235 with a grade of C or better. Continuation of MUS 235 with an emphasis on music from the second half of the twentieth century to the present.

MUS 241 Musicianship I (0-3-1). Corequisite: MUS 231. Course is designed to develop basic skills in sightreading, sightsinging, keyboard, improvisation, basic conducting, and musical perception.

MUS 242 Musicianship II (0-3-1). Prerequisite: MUS 241 or equivalent. Continuation of MUS 241 with more advanced materials for sightsinging, improvisation, keyboard, score reading and musical perception.

MUS 243 Musicianship III (0-3-1). Prerequisite: MUS 242 or equivalent. Advanced skills course including sightsinging, improvisation, keyboard, holistic listening, and musical perception.

MUS 244 Musicianship IV (0-3-1). Prerequisite: MUS 243 or equivalent. Advanced materials for sightsinging, rhythmic performance, improvisation, holistic listening, and musical perception dealing mainly with features of 20th-century concert music and jazz.

MUS 260H The Performing Arts in Cleveland (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. A course designed to examine original sources for works of art that are presented during the regular seasonal offerings of performing arts organizations in Cleveland and on the Cleveland State University campus. Students will attend concerts, plays, dance recitals, ballet, musical theater, and opera. In preparation for each event, the historical, social, and aesthetic context of each work will be studied along with related topics that enhance the appreciation of the event.

MUS 261H The Evolution of Western Popular Music (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course will explore the elements of current popular music and the way they have developed over throughout history. A central issue will be tracing the development of the expression of individual experience as the main concern of music both as an art and as a commercial product. The class will draw on literature, art, and philosophy as well as writings specifically on music in the exploration of these issues. The course will begin with students making a critical evaluation of the musical culture in which they have grown up. From that evaluation we will derive the key expressive elements and musical genres that will serve as the focus of the class.

MUS 262 Nonwestern Popular Music (3-0-3). The course will use postcolonial popular music to examine the effect of independence, urbanization, and technology as well as political, social, religious, and gender issues in Africa, Latin America, the Middle East, and India in the later half of the twentieth century.

MUS 263 Black Music of Two Worlds (3-0-3). A survey course that will focus on three primary areas: an introductory study of traditional music and culture of Africa, an examination of how traditional African music changed and developed in the western hemisphere, and the influence these neo-African musical forms had on postcolonial African music. Attention will be given to the role of music in culture.

MUS 301 Music Fundamentals and Methods for the Classroom Teacher (4-0-4). Prerequisite: For College of Education majors only. Aural, written, and performance competency in musical notation, scales, intervals, key and meter signatures, and primary triads in major and minor modes. Development of skills in singing, conducting, and performance on keyboard, recorder, and classroom music instruments. Applications to elementary classroom activities covered in methods component.

MUS 310 The Business of Music (3-0-3). Prerequisite: Open to any university student with permission of instructor. A team-taught overview of business practices and how they affect musicians. Topics include auditions, promotional materials, recording, concert production, contracts, copyrights, management, unions, taxes, and grant writing.

MUS 341 Counterpoint (3-0-3). Prerequisites: MUS 234 and 244 or equivalents. Modal and tonal counterpoint in two and three voices; composition of melodies, subjects, and examination of contrapuntal devices; invertible counterpoint; binary forms, inventions and fugue.

MUS 351 Teaching String Instruments (1-2-2). Prerequisites: MUS 205, MUS 232, MUS 242. Techniques of playing and teaching violin, viola, cello, and contrabass with an emphasis upon beginning instruction and methods and materials for group lessons. Laboratory class for music-education majors as preparation for teaching school instrumental music.

MUS 352 Teaching Woodwind Instruments (1-2-2). Prerequisites: MUS 205, MUS 232, MUS 242. Techniques of playing and teaching flute, oboe, clarinet, saxophone, and bassoon, with an emphasis upon beginning instruction and methods and materials for group lessons. Laboratory class for music education majors as preparation for teaching school instrumental music.

MUS 353 Teaching Brass Instruments (1-2-2). Prerequisites: MUS 205, MUS 232, MUS 242. Techniques of playing and teaching trumpet, trombone, horn, euphonium, and tuba with an emphasis upon beginning instruction and methods and materials for group lessons. Laboratory class for music education majors as preparation for teaching school instrumental music.

MUS 354 Teaching Percussion Instruments (1-2-2). Prerequisites: MUS 205, MUS 232, MUS 242. Techniques of playing and teaching timpani, snare drum, bass drum, xylophone, cymbals, Afro-Indio-Latin drums, and jazz drumset with an emphasis upon beginning instruction and methods and materials for group lessons. Laboratory class for music education majors as preparation for teaching school instrumental music.

MUS 355 Vocal Techniques for the Classroom (1-0-1) Prerequisites: MUS 205, MUS 232, MUS 242. Techniques for learning and teaching proper use of the singing voice in elementary- and secondary-school music. Emphasis upon methods and materials for K-12 singers in general music classes and choral ensembles. Laboratory class for music education majors as preparation for teaching school vocal/choral music.

MUS 356 Diction (3-0-3). Prerequisite: For performance majors in voice and others with permission of instructor. Use of the International Phonetic Alphabet as a means to teach proper pronunciation for singers; basic concepts for the formation and use of vowels and consonants within a vocal line; application of IPA symbols to sounds in French, German and Italian; basic rules for singing in English.

MUS 361 Voice Class (2-0-2). Prerequisite: Not for voice majors. Assists students in the basic elements and techniques of vocal production for singing.

MUS 362 Guitar Class (2-2-2). A studio/ lab course for music therapy majors to learn basics of guitar playing. Students learn to read tablature and traditional notation, to play chords, to transpose, to play accompaniment for songs, and basics of playing with a flat pick. Open to non-majors depending upon availability of space and with permission of instructor.

MUS 381 Jazz Theory and Improvisation I (2-0-2). Prerequisite: Music major status or permission of instructor. Theory and practice of spontaneous composition/performance in a jazz style, with emphasis on the 12-bar blues form, modal materials, and melodic derivatives of harmonic progressions.

MUS 382 Jazz Theory and Improvisation II (2-0-2). Prerequisite: MUS 381 or permission of instructor. Further exploration of melodic-harmonic inter-relation, harmonic substitution, modal materials, and rhythmic styles. Advanced harmonic and rhythmic concepts.

MUS 390 Introduction to Music Therapy (2-0-2). Prerequisite: Music therapy majors only. Provides an overview of the profession including terminology, history and practical application of music therapy for various client populations. Assessment of personal qualities to become a music therapist is an ongoing process of the class. Observations of music therapists and those in related fields are required in addition to class work. Taught at Baldwin-Wallace.

MUS 391 Recreational Music: Programming and Leadership (2-0-2). Prerequisite: Music therapy majors only. Development of a repertoire of activities to provide a foundation for initial field work experiences. Adaptation of activities and instruments, basic assessment of client interests and needs, and evaluation of observations are required. Taught at Baldwin-Wallace.

MUS 392 Music Therapy Practicum (0-0-1). Prerequisite: Music therapy majors only. Experiences working in a community agency, each experience including a musical and behavioral assessment of the group or individual, the development and implementation of ongoing treatment procedures and evaluation. May be repeated for credit; a minimum of three practica required. Assignments made by director of Cleveland Music Therapy Consortium.

MUS 411 Music History I (3-0-3). Prerequisites: MUS 113, MUS 234 and MUS 244 or permission of instructor. Survey of the history of Western music from Antiquity to 1750 through examination of stylistic characteristics and literature from chronological eras, as well as individual composers' lives and the culture of their times.

MUS 412 Music History II (3-0-3). Prerequisites:, MUS 113, MUS 234 and MUS 244 or permission of instructor. Survey of the history of Western music from 1750 to the present through examination of stylistic characteristics and literature from chronological eras, as well as individual composers' lives and the culture of their times.

MUS 414 Ethnomusicology (3-0-3). Prerequisite: Music major status or permission of instructor. The study of music outside the European art tradition.

MUS 415 World Music Studies (3-0-3). Variable topics include music from specifically selected non-Western world cultures.

MUS 418 Composition Studies II (3-0-3). Prerequisite: Junior standing or permission of instructor. Advanced study sessions with composition faculty. Independent projects explore large and small forms, compositional techniques and modes of expression for various media. Recital preparation for undergraduate exit project in composition. May be repeated for credit. A weekly composition forum is part of this course.

MUS 420 Music Therapy in Psychiatry and Rehabilitation (3-0-3). Prerequisite: Music therapy majors only. Clinical methods as they relate to working with clients who are psychiatric, geriatric, medical, neurologically impaired, and/or addicted. Taught at Baldwin-Wallace.

MUS 421 Music Therapy with the Developmentally Disabled (3-0-3). Prerequisite: Music therapy majors only. Clinical practice as it relates to working with clients who are autistic, sensory-impaired, physically challenged, and/or learning or cognitive-disabled. Offered alternate years. Taught at Baldwin-Wallace.

MUS 422 Psychology of Music I (2-0-2). Prerequisite: Music therapy majors only. An overview of current research in music learning, music preference, acoustics, influence of music on listener behavior, and measurements of music achievement and performance. Taught at Baldwin-Wallace.

MUS 423 Research Methods in Music Therapy (0-2-2). Prerequisites: MUS 422; music therapy majors only. Practical exposure to research methods. Independent research projects incorporating the most common methods of data analysis and test design required. Taught at Baldwin-Wallace.

MUS 424 Program Development and Administration in Music Therapy (2-0-2). Prerequisite: Music therapy majors only. Focus on program planning, scheduling, budgeting, and public relations strategies. Procedures of documentation, standards of practice, codes of ethics, and legislative issues relating to the practice of music therapy included. Offered in alternate years. Taught at Baldwin-Wallace.

MUS 425 Internship (6 credits). Six months of full-time clinical experience in an AMTA approved facility. Documentation and special research projects included according to the clinical internship training plan. Must be completed within two years following the conclusion of course work. Music therapy majors only.

MUS 427 Computer Music I (3-0-3). Prerequisite: Permission of instructor. Introduction to creating music with the use of computers. Topics include synthesis, midi sequencing, sampling, notation, and aesthetics. Also includes an overview of the repertoire of electronic and electro-acoustic music. Assigned studio time for individual composition projects.

MUS 428 Computer Music II (3-0-3). Prerequisite: MUS 427 or permission of instructor. Advanced applications in computer music. Topics include digital audio, digital signal processing, computer synthesis, and recording techniques. Assigned studio time for individual composition projects.

MUS 442 Choral Methods (2-2-2). Pre-requisites MUS 461 and MUS 355 as either prerequisite or corequisite. Materials and methods for preparing and conducting vocal and choral ensembles in middle school, junior high school and high school settings. Includes the selection and preparation of repertoire , related warm-ups, age/grade appropriate repertoire, and rehearsal planning and techniques. Laboratory class for music education majors as preparation for teaching secondary school vocal/choral music.

MUS 443 Music Literacy and Learning (1-2-2). Prerequisites: MUS 444, EDB 305. Understanding the music-reading process through the association of verbal sounds/syllables and symbols of notation. Includes experiences in informal assessment of reading proficiency and in the teaching of pattern recognition. A field component is required.

MUS 444 Elementary Music Curriculum and Methods (2-2-3). Prerequisites: MUS 205, MUS 234, MUS 244. Corequisite: MUS 454. Lesson planning, curricular materials, and instructional strategies for preschool and elementary-school classroom music. Includes curriculum design, principles of assessment, and issues of classroom management. A field component required.

MUS 445 Secondary Music Curriculum and Methods (2-2-3). Prerequisite: MUS 444. Corequisites: MUS 446, MUS 455. Lesson planning, curricular materials, instructional and rehearsal strategies for middle-school and high-school music. Includes curriculum design, principles of assessment, and issues of classroom management for both general music and school ensembles. A field component is required.

MUS 446 Instrumental Methods (2-2-3). Prerequisites: MUS 351, MUS 352, MUS 353, MUS 354, MUS 461. Corequisites: MUS 445, MUS 455. Development of instructional methods for elementary, middle- and high-school instrumental ensembles, including specific strategies for concert, jazz and marching bands, and string-and full-orchestras. Strategies for recruiting and starting beginners, selecting or creating appropriate materials, and refinement of rehearsal skills. The course includes an in-class lab component during which students will practice rehearsing a peer ensemble. Students will also have an opportunity to continue developing performance skills on secondary instruments.

MUS 451 Orchestration (3-0-3). Prerequisite: MUS 234 or MUS 236 or permission of instructor. Study of characteristics and capabilities of orchestral instruments; writing for various instrumental combinations; and correlated analysis of symphonic forms and orchestral techniques.

MUS 452 Career in Composition (3-0-3). The course is designed to study aspects of how to build and maintain a career as a composer in a competitive music industry. Defining and researching the many resources available to composers within this industry will be coupled with detailed assignments and projects focusing on proposal composition and the vital understanding of music publishing, commercial recording, commissioning, contracts and publicity.

MUS 454 Elementary Music Field Experience (1-2-1). Prerequisites: MUS 205, completion of Music Education Gateway Exam, and permission of instructor. Corequisite: MUS 444. Guided field experience under the supervision of a music specialist in the elementary school.

MUS 455 Secondary Music Field Experience (1-4-1). Prerequisites: MUS 205, and permission of instructor, completion of Music Education Gateway. Corequisites: MUS 445, MUS 446. Guided field experience under the supervision of a music specialist in the secondary school.

MUS 461 Conducting School Ensembles (3-0-3). Prerequisites: MUS 234 and 244. Development of effective conducting and rehearsal techniques common to instrumental and vocal ensembles. May culminate in a rehearsal reading with the University Band or Chorus depending on the student's focus. Team taught.

MUS 475 Workshop (1-4 variable credit). Special presentations offered by faculty or visiting specialists for professional development. Carries undergraduate or graduate credit. May be repeated with change of topic.

MUS 476 Extended Workshop (1-4 variable credit). Special presentations offered by faculty or visiting specialists for professional development. Carries undergraduate or graduate credit. May be repeated with change of topic. These

workshops extend beyond the normal semester. Students will receive a "T" grade at the end of the semester and a grade for credit upon completion of the workshop.

MUS 481 Senior Recital (0-0-1). Prerequisite: Permission of instructor. Thirty-minute recital demonstrating appropriate level of competency. Required of all music majors.

MUS 482 Full Recital (0-0-2). Prerequisite: Permission of instructor. Sixty-minute recital demonstrating appropriate level of competency. Required of all applied music majors.

MUS 485 Composition Recital (0-0-2). Prerequisite: Permission of instructor. A recital of works for various media representing the creative accomplishments of composition study.

MUS 493 Special Topics (1-4 variable credit). Prerequisite: Permission of instructor. Topics designed by faculty to be announced in semester schedule. May be repeated for credit with change of topic.

MUS 496 Independent Study (1-4 credit as arranged). Prerequisite: Permission of instructor. Faculty-supervised independent study in areas of individual interest.

MUS 498 Senior Project (0-0-3). Prerequisite: To be elected by candidates pursuing the B.A. degree with a major in music at least one semester prior to graduation. The project is a focal point bringing together the various strands of the undergraduate's career in a meaningful way. It represents individual work done under committee guidance, resulting in either a formal research paper, public presentation, or both.

Applied Music Courses

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Faculty

Applied Music Faculty: Gary Adams (tuba), George Bachmann (guitar), Daniel Barber (piano), , David Brockett (French horn), Lee Bush (guitar), Charles Carleton (string bass), Robert Cassidy (piano), Jocelyn Chang (harp), Treneere Cheshier (French horn), Charles Couch (trumpet), Mark DeMio (bassoon), Scott Dixon (string bass), Bryan Dumm (cello), Molly Fung Dumm (violinRobert Fraser (guitar), Tom Freer (percussion), Sean Gabriel (flute), Jody Guinn (harp), Hanne-berit Hahnemann (violin), David Alan Harrell (cello), Christine Hill (piano), Glenn Holmes (jazz string bass), Shchar Israel (trombone), Theodore Johnson (clarinetArthur Klima (viola), Rebecca Mayhew (oboe) David McGuire (oboe), Eileen Moore (voice), Peter Otto (violin), Joanna Patterson (viola), Noriko Paukert (voice), Maria Pla (piano), William Ransom (jazz drums),Christiana Reader (viola), George Shernit (saxophone), Margaret Scharf (organ), Jason Smith (trombone & euphonium), Yasuhito Sugiyama (tuba). Rock Wehrmann (jazz piano). Feza Zweifel (percussion)

Course Descriptions

(See also MUS courses)

MUA 102 Keyboard Skills I (0-4-2). Prerequisite: Open to music majors only. Intensive training in the application of manual keyboard skills toward the production of simple accompaniments. Drills consist of primary triads in major and minor keys, use of chord inversions, and common finger pattern technique.

MUA 103 Keyboard Skills II (0-4-2). Prerequisite: Grade of C or better in MUA 102. Intensive training in the application of manual keyboard skills toward the production of accompaniments in common figurations. Includes transposition, improvisation, and harmonizing melodies. Drills consist of primary triads in major and minor keys, secondary dominants, triads of the 2nd, 3rd and 6th degrees in major mode, common harmonic formulas, and interpretation of chord symbols.

Private lessons

MUA 111 Piano (1 credit)
Harpsichord (1 credit)

MUA 112 Piano (2 credits)
Harpsichord (2 credits)

MUA 121 Voice (1 credit)

MUA 122 Voice (2 credits)

MUA 131 Organ (1 credit)

MUA 132 Organ (2 credits)

MUA 141 Strings (1 credit)
Classical Guitar (1 credit)
Electric Guitar (1 credit)

MUA 142 Strings (2 credits)
Classical Guitar (2 credits)
Electric Guitar (2 credits)

MUA 151 Woodwinds (1 credit)

MUA 152 Woodwinds (2 credits)

MUA 161 Brass (1 credit)

MUA 162 Brass (2 credits)

MUA 171 Percussion (1 credit)

MUA 172 Percussion (2 credits)

MUA 181 Harp (1 credit)

MUA 182 Harp (2 credits)

MUA 311 Piano (1 credit)
Harpsichord (1 credit)

MUA 312 Piano (2 credits)
Harpsichord (2 credits)

MUA 321 Voice (1 credit)

MUA 322 Voice (2 credits)

MUA 331 Organ (1 credit)

MUA 332 Organ (2 credits)

MUA 341 Strings (1 credit)
Classical Guitar (1 credit)
Electric Guitar (1 credit)

MUA 342 Strings (2 credits)
Classical Guitar (2 credits)
Electric Guitar (2 credits)

MUA 351 Woodwinds (1 credit)

MUA 352 Woodwinds (2 credits)

MUA 361 Brass (1 credit)

MUA 362 Brass (2 credits)

MUA 371 Percussion (1 credit)

MUA 372 Percussion (2 credits)

MUA 381 Harp (1 credit)

MUA 382 Harp (2 credits)

Nonprofit Administration Courses

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Faculty

Link to Profiles of Full-time Urban Studies Department Faculty

Professors: Jeffrey L. Brudney (Levin Chair), Sanda Kaufman (Director, M.A. in Environmental Studies Program), Wendy Kellogg (Associate Dean and Department Chair), Roberta Steinbacher (Director, Undergraduate Programs); **Associate Professors:** Jennifer Alexander (Director, MPA and MNAL Programs), Brian Mikelbank; **Assistant Professors**: Benjamin Clark, Sung-Gheel Jang, Christine Rush, Stephanie Ryberg

Course Descriptions

NAD 380 Urban Family Development (4-0-4). Community building through a holistic approach to family development in urban communities. Cross-listed with UST 380.

NAD 386 Practicum in Nonprofit Administration (Variable 2-24 credits). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in nonprofit administration, communication skills, and analytical tools for addressing issues and problems in nonprofit agency services and systems.

NAD 410 Proposal Writing (4-0-4). Examination of the structure and content of proposals, sources of funding, foundation decision-making, program evaluation, and social/institutional change in the urban environments; independent preparation of proposals and application of evaluation procedures. Cross-listed with UST 410.

NAD 433 Negotiation and Conflict Management (4-0-4). Course examines conflict as an omnipresent component of any decision-making environment. Offers tools for understanding the nature of conflict, devising individual and group strategies that minimize the destructive consequences of conflict, and identifying solutions that are satisfactory to all involved. Includes lectures, discussions, and simulation games. Cross-listed with PSM 433 and UST 433.

NAD 451 Fundraising and External Relations for Nonprofit Organizations (4-0-4). Provides the fundamentals of fundraising and external relations for nonprofit organizations, with special emphasis on the challenges faced by small to mid-sized community and faith-based organizations; development of viable strategies for attracting diverse and sustained financial support for nonprofits; development of strategies for dealing with clients, area residents, members, trustees, legislators, the press, and other important constituents; practical, hands-on exploration of the skills and knowledge needed to equip managers of nonprofits to position their organizations effectively in the community.

NAD 452 Management of Urban and Nonprofit Organizations (4-0-4). Capstone course coordinating knowledge and skills gained through fulfillment of the requirements for a major in Nonprofit Administration. Cross-listed with PSM 452 and UST 452.

NAD 453 Managing Urban Diversity (4-0-4). Study of diversity, including circumstances faced in urban settings that are exacerbated or affected by diversity factors; exploration of a range of social, political, and economic issues related to diversity. Cross-listed with PSM 453 and UST 453.

NAD 455 Gender and Leadership (4-0-4). Examination of factors influencing public acceptance of women in leadership positions; discussion of strategies for effective leadership in diverse communities, and relationships between priorities of the urban community and society's perception of women's roles. Course includes guest lectures by women currently in positions of leadership. Cross-listed with UST 455.

NAD 456 Fundamentals of Nonprofit Administration and Leadership (4-0-4). Examines nonprofit organizations as community institutions, and the role of institutional management and leadership in their development; the nature of leadership and management in the nonprofit sector; fundraising and financial management; governance and the respective roles of board, staff and volunteers; the political, economic and inter-organizational environment; community relations; needs assessment; and planning and performance measurement. Cross-listed with UST 456.

NAD 459 Budgeting and Policy Analysis (4-0-4). Revenue, expenditure, and debt structures of American cities; theories of public budgeting, types of budgets and budget formats, and typical components of a budget document. Cross-listed with UST 459.

NAD 490 Urban Internship (Credit as Arranged). Prerequisite: Permission of instructor. Work experience in nonprofit agencies for nonprofit administration majors.

NAD 493 Nonprofit Administration Issues (1 to 4 credit hours). Special topics in nonprofit administration, including citizen advocacy, mental health, substance abuse, and domestic violence. Topics will be listed in the semester course schedule.

NAD 494 Levin Chair Seminar (4-0-4). Current topics and issues in nonprofit administration and urban studies led by the Albert A. Levin Professor of Urban Studies and Public Service. Topics will be listed in the semester course schedule.

NAD 496 Research in Nonprofit Administration (2 to 12 credit hours). Prerequisite: Permission of instructor. Special research involvement in ongoing projects or specially developed projects for nonprofit administration majors under supervision of a faculty director.

NAD 497 Readings in Nonprofit Administration (2 to 12 credit hours). Prerequisite. Permission of instructor. Independent study for nonprofit administration majors.

Baccalaureate Nursing Program Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Associate Professors: Amy Govoni, Vida Lock (Dean), Sharon Wing; Clinical Associate Professors: Vicki Johnson, Michelle Kwiatkowski, Meg Toukonen; **Assistant Professors:** Cheryl Delgado, Maureen Mitchell, Joan Niederriter, Theresa Puckett, Pamela Rutar, Joan Thoman, , Linda Wolf; **Clinical Assistant Professors:** Janet Bessas, Dorothy Hamilton, Karen Pace **Lecturers:**, Deborah Barlock, Barbara Cavender, , Antoinette Kramer, Agnes Tytko, Cathy Winkler.

Course Descriptions

NUR 125 Health and Wellness (2-0-2). Using a holistic approach, selected health behaviors which promote high-level wellness will be explored. Students will have an opportunity to clarify their own health values and assess their present health behaviors and life styles in order to make decisions relative to future health behaviors and lifestyles. Elective.

NUR 200 Theory and Professional Practice (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Introduces the student to the need for theory development in nursing, selected nursing models, and the philosophy and conceptual framework of the School of Nursing. Attributes and values that define and support the professional nurse are explored. Institute of Medicine core healthcare professional competencies and concepts related to nursing practice are introduced. Emphasis is placed on the acquisition of knowledge and skills for facilitative communication and understanding the significance of diversity in healthcare.

NUR 203 Professional Role Development I (1-0-1). Prerequisites: Students must be admitted to the Nursing Program. Must be a Sophomore Nursing Student and working as a nursing assistant or similar role. Students will examine the roles, responsibilities and interactions of health care team members in a modern, acute care clinical unit in relation to the work and goals of that unit. Students will meet in a small group with an instructor to discuss professional issues such as nursing's contributions to care, organization and management of a hospital unit, hospital culture, nursing cultures and pace of work. Each student will develop objectives for personal professional growth.

NUR 215 Fundamentals of Nursing Practice (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Introduces concepts, principles, and theories of nursing practice in relation to levels of preventive care. Includes interpersonal and psychomotor skills as well as the use of the nursing process. (NUR 216 must be taken concurrently; NUR 200 and NUR 219 must be taken concurrently unless previously completed.)

NUR 216 Fundamentals of Nursing Practice - Clinical (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Applies the nursing process and principles from the natural, behavioral, and nursing sciences to provide direct care to adult clients within structured settings who are experiencing health problems as a result of stressors. Psychomotor skills are learned and practiced in a skills laboratory prior to performance in a community-based setting. (NUR 215 must be taken concurrently.)

NUR 218 Nursing Pharmacology (3-0-3). Prerequisite: Students must be admitted to the Nursing Program. Introduces the student to various classifications of drugs used in the care of clients experiencing stressors. Emphasis is on application of the nursing process as it is related to pharmacology . (Must have completed NUR 219)

NUR 219 Pathophysiology for Nurses. (3-0-3). Prerequisite: Students must be admitted to the Nursing Program. This course focuses on the exploration of various physiologic stressors by which disease occurs, the impact of the individual's

GRR on the response of the body and the effects of the disease on normal physiology. Each disease entity will be examined by definition, epidemiology, etiology, diagnostic data and clinical manifestation. The clinical concepts of disease can be utilized by the professional nurse in the application of the nursing process in all settings.

NUR 220 Health Assessment (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Designed to teach the student knowledge and skills to systematically assess and document the health status of an adult. Content related to the use of techniques of inspection, palpation, percussion, and auscultation. (NUR 221 must be taken concurrently.)

NUR 221 Health Assessment - Laboratory (0-2-1). Prerequisite: Students must be admitted to the Nursing Program. Provides supervised laboratory practice to develop health-appraisal skills. Provides practice in documenting a comprehensive assessment using an electronic patient record. (NUR 220 must be taken concurrently.)

NUR 225 Medical Surgical Nursing I (4-0-4). Prerequisite: Students must be admitted to the Nursing Program. Focuses on care of adults who have diseases of adaptation. Theories/concepts of aging, long term care, chronic disease and rehabilitation are presented. Primary and tertiary preventive strategies of selected chronic illnesses are discussed. (NUR 226 must be taken concurrently.)

NUR 226 Medical Surgical Nursing I - Clinical (0-12-6). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the use of the nursing process in structured settings to plan care for patients from young adulthood through old age who have diseases of adaptation. Emphasis is on developing the student's ability to provide tertiary preventive care. Psychomotor skills are learned and practiced in a skills laboratory prior to performance in a community-based setting. (NUR 225 must be taken concurrently.)

NUR 300 Nursing Leadership and Management (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Focuses on leadership and management theories and concepts as they relate to the practice of nursing and the delivery of care in a variety of community-based settings. Emphasizes the use of change theory and quality assurance concepts. Approaches to developing leader/change agent and consultant/collaborator roles are explored.

NUR 303 Professional Role Development II (1-0-1). Prerequisite: Students must be admitted to the Nursing Program. Must be a Junior Nursing Student and working as a nursing assistant or similar role. Students will examine the role of nursing personnel providing direct and supervisory care. Students will study the job descriptions and use personal observation to evaluate practice. Issues of delegation, scope of practice, coordination of care, and functioning of a nursing unit will be emphasized. Each student will develop objectives for personal professional growth.

NUR 305 Medical Surgical Nursing II (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Focuses on care of patients from young adulthood through old age who are experiencing health problems as a result of stressors. Theories and concepts related to care of adults in acute-care settings are presented. (NUR 306 must be taken concurrently.)

NUR 306 Medical Surgical Nursing II - Clinical (0-8-4). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the use of the nursing process in acute care settings to plan care for patients from young adulthood who have acute health problems as a result of stressors. Emphasis is on developing the student's ability to provide secondary preventive care. Psychomotor skills are learned in a skills laboratory prior to performance in a community-based setting. (NUR 305 must be taken concurrently.)

NUR 310 Nursing Research (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Introduces the research process and the contributions of research to the improvement of nursing practice. Focuses on the critical analysis and interpretation of research reports and the development of strategies for implementation of research findings.

NUR 312 Psychiatric/Mental Health Nursing (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the care of adults who have health problems related to psychosocial stressors. Theories and concepts related to therapeutic nursing-intervention strategies with individuals and groups are presented. (NUR 313 must be taken concurrently.)

NUR 313 Psychiatric/Mental Health Nursing - Clinical (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the use of the nursing process to design therapeutic nursing interventions for clients experiencing

psychosocial stressors. Emphasis is on the development of the therapeutic self which is used with individuals and groups in a variety of community-based settings to enhance the communication process and facilitate intervention strategies of a psychosocial nature. (NUR 312 must be taken concurrently.)

NUR 325 Pediatric Nursing (2-0-2) Prerequisite: Students must be admitted to the Nursing Program. Focuses on the care of children who are experiencing a variety of stressors, stress, and diseases of adaption. Theories, concepts, and principles related to the care of children and their families are presented. (NUR 326 must be taken concurrently.)

NUR 326 Pediatric Nursing - Clinical (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the use of the nursing process to provide secondary preventive care in a variety of community-based settings to children experiencing health problems as a result of stressors. The impact of illness/disease on the development of children from infancy through adolescence will be evaluated. Psychomotor skills are learned and practiced in a skills laboratory prior to performance in a community-based setting. (NUR 325 must be taken concurrently.)

NUR 340 Theory and Professional Practice (3-0-3). Prerequisite: Students must be admitted to the Nursing Program. (Open to RN students only.) This course is offered online and introduces the student to the need for theory development in nursing, selected nursing models, and the philosophy and conceptual framework of the School of Nursing. Attitudes and values that support the professional nurse are explored. Emphasis is placed on the acquisition of knowledge and skills for facilitative communication and the appreciation of cultural diversity. Concepts related to community-based practice and the nursing process are introduced.

NUR 341 Advanced Placement for Nursing Leadership Experience (4-0-4). Prerequisite: Admission to the Nursing major. (Open only to R.N. students with at least 5 years nursing experience.) Seminar is designed to assist the student to reflect on and document relevant prior learning and nursing experience to and to present evidence of their achievement in key areas of nursing practice. Such documentation will be collected in a portfolio and will be used as a basis of evaluation for credit.

NUR 345 Computer Literacy (3-0-3).Prerequisite: Students must be admitted to the Nursing Program or obtain department permission. Introduces student to use of personal computer, computer concepts, and information systems. Students will explore ways in which computers have impacted the delivery of health care. Students will learn to use computers for word processing, conducting library searches, and use the World Wide Web to locate health-care information to improve nursing practice.

NUR 346 Professional Writing and Communication (2-0-2) Prerequisite: Students must be admitted to the Nursing Program. This course is offered online and is open to R.N. students only. Introduces the student to the need for professional communication in nursing through exploration of computer information sources, writing for professional journals, and electronic media presentations. Attributes and skills that support a professional image are explored. Emphasis is placed on the acquisition of writing skills and computer literacy.

NUR 350 Leadership and Management (4-0-4). Prerequisite: NUR 340. (This course is offered online and is open to R.N. students only.) Focuses on leadership and management theories and concepts as they relate to the practice of nursing and the delivery of care in a variety of community-based settings. Emphasizes the use of change theory and quality assurance concepts. Approaches to developing leader/change agent and consultant/collaborator roles are explored.

NUR 360 Nursing Research (2-0-2). Prerequisites: MTH 147. Students must be admitted to the Nursing Program. This course is offered online and is open to R.N. students only. Introduces the research process and the contributions of research to the improvement of nursing practice. Focuses on the critical analysis and interpretation of research reports and the development of strategies for implementation of research findings. Must be completed for senior standing in the major.

NUR 379 Death and Dying: Care of Individuals and Family for Healthcare Professionals (2-0-2) Focuses on death and dying topics through the life span to include those that affect health care workers. Topics include discussion on western philosophy about death and dying, personal assessment of death, cultural, spiritual and religious aspects of death and dying, grieving and bereavement, loss of child, loss of parent, loss of spouse and communication issues related to death and dying. This course will also look at ethical and legal issues and the healthcare provider's role. (Elective)

NUR 380 Maternal Newborn Nursing (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Explores primary preventive strategies that can be used to ameliorate stressors that affect the health of childbearing families. Theoretical issues related to developmental and situational stressors are presented. (NUR 382 must be taken concurrently.)

NUR 382 Maternal Newborn Nursing - Clinical (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Focuses on the use of the nursing process to provide primary preventive care to childbearing families experiencing stressors. Psychomotor skills will be learned and practiced in a skills laboratory prior to performance in a community-based setting. (NUR 380 must be taken concurrently.)

NUR 403 Professional Role Development III (1-0-1). Prerequisite: Students must be admitted to the Nursing Program. Must be working as a nursing assistant or similar role. Students will examine the role of the Registered Nurse through reflection on practice. And identify own strengths and weakness and career goals. Opportunities for continued professional growth will be explored.

NUR 408 Gerontological Nursing (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only. Focuses on using the conceptual framework in planning and evaluating preventive strategies in the provision of health care for the older adult and their family in community-based settings. Theories, concepts, and principles related to adaptation of aging presented. (NUR 409 must be taken concurrently).

NUR 409 Gerontological Nursing - Clinical (0-4-2). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only. Focuses on the use of the nursing process to provide preventive care to adults in community-based settings. Emphasis is on implementing a teaching plan and other strategies to facilitate the client's ability to adapt to stress. (NUR 408 must be taken concurrently.)

NUR 412 Community Health Nursing (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Focuses on community as client and the factors necessary to define and describe the client and assess community. Basic principles of the study, prevention, and control of diseases that impact a community will be discussed. Use of the nursing process to plan care for the community will be explored. (NUR 414 must be taken concurrently.)

NUR 414 Community Health Nursing - Clinical (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Focuses on community assessment. Students will use the nursing process to develop therapeutic nursing interventions for communities with increased risk of illness, disability, or premature death. Emphasis is on health promotion, health maintenance, health education, and case management for the community. (NUR 412 must be taken concurrently.)

NUR 415 Medical Surgical Nursing III (3-0-3). Prerequisite: Students must be admitted to the Nursing Program. Focuses on care of adults with life-threatening health problems in a variety of settings. (NUR 416 must be taken concurrently.)

NUR 416 Medical Surgical Nursing III - Clinical (0-10-5). Prerequisite: Students must be admitted to the Nursing Program. Focuses on care of clients with life-threatening health problems with emphasis on assessment, integration of laboratory results, use of biomedical technology, and planning and implementing appropriate nursing care. (NUR 415 must be taken concurrently.)

NUR 420 Professional Role Practicum (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. This Capstone course is designed to provide the student with in-depth experience within a chosen field of practice. Emphasis is directed toward use of the nursing process within the parameters of the stress framework for the refinement of clinical skills in the delivery of quality nursing care for individuals, groups, families, or communities. Includes experience in operationalizing the entire role spectrum of the professional nurse.

NUR 425 Professional Role Preparation (2-0-2) Prerequisite: Students must be admitted to the Nursing Program. This course is designed to help the student prepared for licensing and transition into the professional role. Students will examine current issues and trends which impact the profession, and discuss legal, economic, political, cultural, and ethical issues that impact the nurse, the profession, and the delivery of health care.

NUR 430 Professional Seminar (3-0-3). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only. Identifies and explores contemporary issues and future trends that have impact on the profession. Students will examine selected legal, economic, political, cultural, and ethical issues that act as stressors on the professional nurse, the practice of nursing, and the delivery of nursing care within the health-care delivery system.

NUR 440 Community Health Nursing (2-0-2). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only. Focuses on community as client and the factors necessary to define, describe the client, and assess needs. Basic principles of the study, prevention, and control of diseases that impact a client will be discussed. Use of the nursing process to plan care for the community will be explored. (NUR 441 must be taken concurrently.)

NUR 441 Community Health Nursing - Clinical (0-2-1). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only. Focuses on community assessment. Students will use the nursing process to develop nursing interventions for communities with increased risk of illness, disability, or premature death. Emphasis is on health promotion, health maintenance, health education, and case management for the community. (NUR 440 must be taken concurrently.)

NUR 460 Professional Role Practicum (0-6-3). Prerequisite: Students must be admitted to the Nursing Program. Open to RN students only This Capstone course is designed to provide the student with in-depth experience within a chosen field of practice. Emphasis is directed toward use of the nursing process within the parameters of the stress framework in the refinement of clinical skills and in the delivery of quality nursing care for individuals, groups, families, or communities. Includes experience in operationalizing the entire role spectrum of the professional nurse.

NUR 493 Special Topics in Nursing (1 to 4 credits). Prerequisite: Admission to the Nursing program or permission of instructor. Study of health problems of particular groups. Topics arranged by mutual agreement of the students and the department. May be repeated.

NUR 496 Independent Study (1 to 4 credits). Prerequisite: Admission to the Nursing program or permission of instructor. Faculty-supervised independent study in one area of student's interest. May be repeated.

NUR 498 Health of Older Persons (4-0-4). A comprehensive course emphasizing health-related factors which affect the aged population in the United States; aging as a normal but irreversible process; factors contributing to health promotion or maintenance, such as nutrition and access to health-care delivery systems; patterns of illness and viable alternatives to institutionalization of the aged. (Core course for Gerontology Certificate Program) (Elective)

Operations and Supply Chain Management Courses

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Faculty

Professors: Injazz Chen, Jen-yi Chen, Chia-Shin Chung, , Walter O. Rom; Oya I. Tukel (Chair)**; Associate Professor:** Susan A. Slotnick; **Associate Professor Emeritus:** Ronald L. Coccari; **Term Assistant Professors:** Richard Miller; **Visiting Assistant Professor:**Robert Stoll

OSM 201 Business Statistics I (3-0-3). Prerequisite: MTH 149. Application of statistical methods to business problems; topics include descriptive statistics, elementary probability, random variables and probability distributions, the binomial, Poisson, and normal and "t" distributions; estimation and hypothesis testing; type I and II errors and their control.

OSM 202 Business Statistics II (3-0-3). Prerequisite: OSM 201 or equivalent. Application of statistical methods to business problems; topics include chi-square analysis, the F distribution, one-way and two-way analysis of variance, correlation analysis, simple and multiple regression analysis, and introduction to forecasting with regression models; use of computer programs in solving statistical problems.

OSM 311 Introduction to Operations Management (3-0-3). Prerequisite: OSM 201 or equivalent. Introduction to the design and management of manufacturing and service operations. Students will learn to recognize the basic tradeoffs associated with operations management decisions, to identify and quantify operating characteristics of different manufacturing and service systems, and to apply a variety of tools and techniques used by operations managers. Topics include product and service design, lean operations, capacity planning, location decisions, warehouse operations, and supply chain management. .

OSM 312 Supply Chain Analytics (4-0-4). Prerequisite: OSM 311. This course introduces the use of spreadsheets in analysis, interpretation and implementation of supply chain decision problems. Emphasis is on the computer modeling of a management decision problem, graphical representation of computer solutions, what-if analysis, and sensitivity analysis.

OSM 412 Supply Chain Modeling (4-0-4). Prerequisite: OSM 311. This course focuses on developing models for the flow of goods and services through a distribution channel from supplier to the ultimate customer. Topics covered include methods of supply chain management; supply chain network design; coordination with 3PL and 4PL companies; intermodal systems; transportation models; cross-docking; vendor managed inventories and warehouse management; demand management and bullwhip effect.

OSM 413 Production Planning and Control (4-0-4). Prerequisite: OSM 311 or permission of the instructor. Planning, scheduling, and controlling of activities related to the production of goods are examined. Topics include manufacturing planning and control, short-term forecasting systems, demand management and order servicing, sales and operations planning (SOP), master production scheduling (MPS), enterprise resource planning (ERP), supply chain management (SCM) inventory, material requirements planning (MRP), bills of material (BOM), capacity requirements planning (CRP), distribution requirements planning (DRP), advanced concepts in material requirements planning.

OSM 415 Case Studies in Operations Management (4-0-4). Prerequisite: OSM 311 or permission of the instructor. Examines classic and current issues in operations management. Provides advanced fundamental and strategic methodologies for operations decision making. Topics include supply chain management, e-commerce, JIT, enterprise resource planning, service operations management, customer service, purchasing, quality control, human resource management, and strategy. Includes readings, lectures, guest speakers, and plant tours.

OSM 417 Principles of Lean Operations (4-0-4). Prerequisite: OSM 311 or permission of the instructor. The primary focus of this course is to present techniques which are intended to synchronize and streamline the production process including inventory management. Non-value added activities and waste are the targets of these techniques. Topics include value stream mapping, 5S, set-up time reduction, six sigma, maintaining and improving equipment, small lot production, and level scheduling in pull production.

OSM 419 Operations Strategy (4-0-4). Prerequisite: OSM 311 or permission of the instructor. A study of the development and implementation of operations strategy in manufacturing and service settings, and the interface and integration of this strategy with other functional areas such as marketing, finance, etc. Topics include strategic perspectives on the design and introduction of new products and services, competitiveness, capacity, quality, choice of process and technology, productivity management and supply network relationships.

OSM 421 Service Operations Management (4-0-4). Prerequisite: OSM 311 or permission of the instructor. A study of the design, control, planning, and evaluation of service systems, including service aspects of manufacturing firms. Topics include the strategy of designing and implementing service systems, measurement and improvement of their quality and productivity, and the roles of supply chain management, demand management and technology. Students will use quantitative tools to analyze service systems in order to measure and improve their performance, and apply these concepts and tools in the analysis of cases.

OSM 422 Project Management for Business and Technology (3-2-4). Prerequisite: Business students with junior standing or permission of OSM Department chair. Designed to teach students how to design, implement and control "business" and "technical" projects. Students will be exposed to projects in product development, marketing, process improvement, information technology and software engineering to learn the differences and similarities in managing them as well as the human side of project management. The course coverage is intended for advanced undergraduate students and it is designed to help them get started as project managers. The course coverage also prepares students for the Project Management Professional (PMP) Certification exam. Microsoft Project package will be used during lab hours.

OSM 424 Transportation Management (4-0-4). Prerequisite: OSM 311. This course is designed to introduce the student to the transportation activities in supply chain systems. Specifically the transportation providers such as motor carriers, railroads, and intermodal services are covered, as well as the rules and regulations under which they operate. Ocean freight issues, the role of port authorities, cost and pricing strategies, and dealings with third party logistic providers are also covered to illustrate the impact that transportation has on the global sales of goods and on international business.

OSM 425 International Operations Management (3-0-3). Prerequisite: OSM 311. Introduces students to the advantages and pitfalls of managing productive systems outside the US. Study of multinational manufacturers and the effects of culture, language, politics, and trade agreements on global supply chain performance through case studies. Topics include history of international trade, operations in global business strategy, improving global supply chain performance, Japanese tier system for outsourcing, global quality standards, and global service operations.

OSM 427 Strategic Sourcing and Purchasing Management(4-0-4). Prerequisite: OSM 311. In this course students will become familiar with the basics of sourcing strategies, purchasing activities, and supplier relationships in supply chain networks. The emphasis is on the coverage of total supply processes that result in purchasing savings. Other concepts included are: the types of purchasing; use of electronic communication and online auctions in purchasing; global purchasing; identification of suppliers; supplier selection and evaluation; negotiation and contracts with suppliers; and supply law and ethics.

OSM 431 Design of Survey Samples using SAS (4-0-4). Prerequisite: OSM 202 or equivalent. The purpose of this course is for students to develop a thorough understanding of the practical aspects of survey problems in the modern business world. Students will learn how to develop and use questionnaires in business research. This will include practical aspects of conducting sample surveys, with an emphasis on sources of errors in surveys, methods of data collection, designing questionnaires, and guidelines for planning surveys. Upon completion of this course, students should be able to plan, manage, and complete a comprehensive sample survey. Case studies and the SAS software system are used where appropriate to illustrate applications of survey sampling. Strong emphasis will be placed on the application of SAS software to actual business data.

OSM 433 Data Analysis using SAS (4-0-4). Prerequisite: OSM 202 or equivalent. This course presents practical business applications of statistical methods through extensive hands-on application of the SAS software. The emphasis is on giving students experience in solving business problems using appropriate statistical methods. The SAS topics to be

covered include creating SAS data sets, using the appropriate SAS procedures, summarizing qualitative and quantitative data, interpreting SAS output, and writing up the results for business presentations. Case studies and projects, with SAS applications, are used to show the application of statistical methods to business problems.

OSM 434 Multivariate Analytics using SAS (4-0-4) Prerequisite: OSM 202 or equivalent. This course develops practical business applications of multivariate statistical methods using the SAS software system. The topics to be covered include multiple regression, factor analysis, cluster analysis, multi-dimensional scaling (MDS), and structural equation modeling. The emphasis throughout the course will be on developing proficiency in these statistical techniques and to illustrate their use on actual business data and case studies using the SAS software. Students will be expected to develop proficiency in the SAS software, be able to interpret SAS output, and understand the statistical advantages and limitations of each multivariate technique discussed.

OSM 435 Applied Business Forecasting (4-0-4). Prerequisite: OSM 202 or equivalent. A critical study of the forecasting methods available for use in modern business organizations. The emphasis is on developing the ability to use time series and regression-based methods to produce accurate forecasts of sales and inventory. An evaluation of forecasting techniques is also presented, including evaluation of accuracy, techniques for improving accuracy, and analysis of the appropriateness of each model. In addition, a number of forecasting software packages are demonstrated.

OSM 438 International Field Experience in Supply Chain Management (0-3-3). Prerequisite: permission of instructor. This course is a specially arranged international field experience in supply chain management with focus on advanced manufacturing systems and logistics in countries such as Japan, China, Singapore and Hong Kong. Students will have the opportunity to observe firsthand world renowned supply chain management systems at some major companies like Toyota, Mitsubishi, Sony, etc. In addition, students will be exposed to the unique culture and business ethics of the country, which is essential for the success of their systems. Social events will be arranged with students from a local university to provide opportunities to experience the culture.

OSM 442 Innovation Management (4-0-4). Prerequisite: Business students with junior standing or permission of OSM Department chair. Students learn how to manage and foster innovation from a general manager's perspective. Topics covered include models describing the types of innovation, differences between incremental and radical innovation, protection of intellectual property, fostering creativity, and new product development processes, such as Stage-Gate.

OSM 445 Quality Control and Management (4-0-4). Prerequisite: OSM 311. This course covers the core principles of the management of quality in the production of goods and services. Statistical quality control techniques are used in the implementation of these principles. Topics include TQM, continuous improvement, control charts, sampling plans, process capability, and ISO 9000. Applicable computer software is used to implement the techniques.

OSM 448 Queuing and Simulation (4-0-4). Prerequisite: OSM 202 or equivalent. This course covers the application of simulation and animation techniques to queuing systems using personal computers. Included are more complex systems such as those encountered in production, inventory, and service systems. Statistical tools are used to analyze the simulated systems. In addition, the use of simulation software will be an integral part of the course.

OSM 490 Professional Internship in Operations and Supply Chain Management (1 to 4 credits). Prerequisites: OSM 311, junior standing, and approval of chair. Provides OSM students work experience in a logistics, manufacturing or service organization related to operations management and supply chain management. Term report is required.

OSM 493 Special Topics in Operations Management (1 to 4 credits). Prerequisite: Senior standing and permission of instructor and department chair. Explores current issues or special topics in operations management and business statistics. Topics and course requirements will be announced by the department.

OSM 496 Independent Study (1 to 4 credits). Prerequisites: Senior standing, approval of sponsoring professor and department chairperson, written proposal approval before registration. Flexible content/structure course to enable qualified students to pursue special areas of interest and competency; opportunity for independent study, field research, or other special assignments.

OSM 499 Honors Thesis in Operations and Supply Chain Management (4 credits). Prerequisite: Restricted to senior OSM honors students. Requires the honors student to conduct an original research in supply chain management or business statistics under the supervision of an OSM faculty member. The thesis will be submitted as a written report.

Philosophy Courses

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Faculty
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Professors: Alan S. Rosenbaum, Mary Ellen Waithe; **Professors Emeriti/Emeritae:** Joseph DeMarco, Richard M. Fox, Jane McIntyre, Nicholas J. Moutafakis, Nelson Pole, Samuel A. Richmond; **Associate Professors:** Michael R. Baumer, Allyson Robichaud, Diane Steinberg (Chairperson); **Associate Professors Emeriti:** Edward Bartlett, Lee F. Werth; **Assistant Professor:** Sonya M. Charles.

Course Descriptions
PHL 120 Reasoning and Argument (4-0-4). An introduction to logical concepts and principles of inductive and deductive reasoning, which focuses on building the skills involved in analyzing, evaluating and constructing arguments of various types. Emphasis is placed on the application of concepts and principles to natural language contexts and examples. Not a symbolic logic course.

PHL 130 Introduction to Logic (4-0-4). An introduction to the basic concepts, principles, and methods of argument analysis and evaluation, including deductive vs. inductive reasoning, validity, soundness, truth tables, deductive proof, Venn diagrams, and probability and statistical reasoning. May also include Aristotelian logic, informal fallacies, and causal reasoning and scientific method.

PHL 131 Deductive Logic I (4-0-4). An introduction to symbolic logic, with an emphasis on the study of propositional logic.

PHL 171 Introduction to Philosophy (4-0-4). Prerequisite: Open only to freshmen and sophomores or by written permission of department chairperson. An elementary survey of leading themes, thinkers, movements, branches, and problems in Western philosophy.

PHL 175 Meaning of Life (4-0-4). A critical examination of views regarding whether life has meaning, what it means for life to have meaning, and what a meaningful life consists in.

PHL 181 Historical Introduction to Philosophy (4-0-4). Traces the development of fundamental themes, problems, and ideas in the Western philosophical tradition via readings drawn from the tradition's leading historical figures.

PHL 211 Morals and Rights (4-0-4). An introductory survey of philosophical approaches to moral problems. Emphasis will be on theories about how we ought to act and about goals, rights and responsibilities appropriate to human beings. Current moral issues are analyzed and discussed.

PHL 213 Environmental Ethics (4-0-4). This course will examine different conceptions of nature, and different theories about the relationship of humans to their natural environment, that have shaped current debates about environmental issues. Readings will be drawn from historically important moral theories as well as from contemporary philosophical writings in the area of environmental ethics. Philosophical questions addressed will include: What things are intrinsically valuable? What are rights? Do non-humans (e.g. other animals, natural objects) have rights? What responsibilities do we have to future generations?

PHL 213H Environmental Ethics - Honors (4-0-4). Prerequisites: Honors standing or permission of university Honors Program. This course will examine different conceptions of nature, and different theories about the relationship of humans to their natural environment, that have shaped current debates about environmental issues. Readings will be drawn from historically important moral theories as well as from contemporary philosophical writings in the area of environmental

ethics and works of literature. Questions addressed will include: What are rights? Who/what should have them? What kinds of things, if any, are intrinsically valuable? What responsibilities do we have to future generations?

PHL 215 Engineering Ethics (3-0-3). An examination of the social impact of technology and its relationship to ethics, with the objective of identifying and clarifying obligations that might arise in technological research and its applications. The course will survey a variety of moral theories, as well as engineering codes of ethics. The case study method will be used: sources will include the history of science and technology, and reports from professional societies. Topics covered may include whistle blowing; and environmental, safety, and privacy issues.

PHL 220 Philosophy, Fantasy, and Science Fiction (4-0-4). This course introduces perennial philosophical problems and concepts through readings from great works of Western philosophy and classical works of fantasy and science fiction. Philosophical problems to be discussed include: the nature of reality, space and time; questions about knowledge; and alternative views of the good life and the good society.

PHL 225H Utopias, Dystopias and Human Nature (4-0-4). Prerequisite: Honors standing or permission of University Honors Program. Course surveys utopian and dystopian visions from ancient times to the present, focusing on the relation between human nature and the structure of society.

PHL 240 Health Care Ethics (3-0-3). An introduction to major ethical theories and the principles of bioethics. This knowledge will be applied to the analysis of ethical problems that arise in the health-care field.

PHL 242H Ethics and Biotechnology - Honors: (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. An application of major ethical theories and viewpoints, surveyed in the course, to important and controversial issues in biotechnology such as genetic modification of agricultural products, genetic enhancement of human traits, stem cell research, and human cloning.

PHL 245 Science and Philosophy (4-0-4). A survey of the interplay of key scientific concepts and philosophical ideas as these impact upon such areas as cosmology, evolution, technology, and social change.

PHL 246H Nature and Rationality - Honors (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. An exploration of the issue of nature's intriguing openness to theoretical description and prediction. Areas of discussion include Pythagoreanism and its presence in the works of Kepler, Copernicus, Galileo and Newton. The implications of advances in evolutionary theory and quantum mechanics will be introduced as challenges to traditional views regarding comprehending a supposedly ordered universe.

PHL 252 African-American Social Philosophy (4-0-4). An examination of major African-American philosophers, with an emphasis on their views about the nature of race and racism and about appropriate responses to racism. The course will explore the philosophical roots of these themes, with special attention to the influences from the history of philosophy, including Marxism, American pragmatism, and existentialism.

PHL 253 Philosophy of Feminism (4-0-4). An examination of classical and contemporary views on the nature of woman; the variety of response within the feminist movement to the situation of women in modern society; emphasis is placed on discovery of underlying philosophical presuppositions concerning human nature, human good, equality, masculinity, and femininity.

PHL 255 Non-Western Philosophy (4-0-4). This course introduces students to the rich philosophical traditions of the non-western world. Emphasis is on non-contemporary traditions of metaphysics, cosmology, ethics, philosophy of religion, social and political philosophy and logic.

PHL 261 Ancient Philosophy (4-0-4). An examination of the beginnings of Western philosophic thought from Thales through the Hellenistic period, with extensive consideration of Plato and Aristotle.

PHL 262 Medieval Philosophy (4-0-4). A continued examination of Western philosophic thought with special emphasis on St. Augustine and Thomas Aquinas.

PHL 263 Early Modern Philosophy (4-0-4). A continuation of the examination of Western philosophic thought up to the 19th century, including Continental Rationalism (Descartes, Leibnitz, Spinoza, and Kant) and British Empiricism (Locke, Berkeley, and Hume).

PHL 283 Introduction to Ethics (4-0-4). An introduction to ethics through the study of the history of ethics. This course traces the development of fundamental themes and problems of ethics in the Western philosophical tradition through readings drawn from leading philosophers.

PHL 311 Ethics (4-0-4). Prerequisite: One course in philosophy. An examination of the assumptions, method and content of major theories of ethics, with an emphasis on contemporary approaches.

PHL 321 Philosophy of Art (4-0-4). Prerequisite: One course in philosophy. An examination of art and aesthetic experience, including personal, social and political significance. Issues explored may include artistic concepts pertaining to form and content, representation and expression, meaning and truth, critical interpretation and evaluation.

PHL 331 Philosophy of Religion (4-0-4). Prerequisite: One course in philosophy. An examination of the relations between various philosophical systems and historical religions; theories of faith and knowledge, including a discussion of proofs for the existence of God.

PHL 332 Deductive Logic II (4-0-4). Prerequisite: PHL 130 or PHL 131 or permission of instructor. A continuation of the study of symbolic logic, with an emphasis on predicate logic.

PHL 341 Philosophy of Law (4-0-4). Prerequisite: One course in philosophy. The meaning and role of law in human life and contemporary society, with reference to social and political problems.

PHL 345 Philosophy of Science (4-0-4). Prerequisites: Two courses in philosophy or permission of instructor. An examination of the assumptions and methodology of scientific explanation and its philosophic implications.

PHL 351 Social and Political Philosophy (4-0-4). Prerequisite: One course in philosophy. A philosophical examination of the nature of justice, equality, liberty, rights and political obligation. Philosophers studied may include Plato, Hobbes, Locke, Hume, Kant, Marx and Mill, as well as contemporary theorists such as Rawls, Dworkin and Feinberg.

PHL 361 20th Century Continental Philosophy (4-0-4). Prerequisite: One course in philosophy. An examination of some of the key movements in recent continental thought. Typical readings may include selections from the works of Husserl, Heidegger, Sartre, Simone de Beauvoir, Merleau-Ponty, Foucault, Gadamer, Levinas.

PHL 362 American Philosophy (4-0-4). Prerequisite: One course in philosophy. An examination of the thought of American philosophers, including Peirce, James, and Dewey.

PHL 363 19th-Century Thought (4-0-4). Prerequisite: One course in philosophy. This course is a survey of competing 19th-century world views and methodologies. Excerpts from the works of philosophers such as Mill, Comte, Hegel, Schopenhauer, Kierkegaard, and Nietzsche will be examined, and the relevance of their views to 20th-century philosophy will be explored.

PHL 377 Philosophy and Language (4-0-4). Prerequisite: One course in philosophy. An examination of the philosophical origins of traditional grammar and of transformational grammar; pertinent insights by thinkers, including Aristotle, Descartes, Locke, Hume, Wittgenstein, Chomsky, and Katz; special attention to the tenability of claims made by transformational grammarians from the viewpoint of philosophical consistency.

PHL 405 Prominent Philosophers (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. Concentrated study of the writings of outstanding philosophers (normally no more than one or two philosophers in any one offering). Usually offered every semester. May be repeated with change of topic.

PHL 410 Studies in the History of Philosophy (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. Study of a particular philosophical movement and its assumptions, methods, and implications. May be repeated with change of topic.

PHL 420 Reasoning in Bioethics: Basic Issues (2-0-2). Examines alternative approaches to bioethical reasoning - principlism casuistry, and the philosophy of social justice - in relation to such questions as resource allocation, death and dying, and other issues in bioethics.

PHL 421 Reasoning in Bioethics: Contextual Approaches (2-0-2). Examines alternative approaches to bioethical reasoning - virtue theory, narrative ethics, intuitionism, and Feminist ethics - in relation to such questions as informed consent privacy, and institutional practices with special attention to cultural relativism.

PHL 422 Clinical Bioethics: Cases I (2-0-2). This course examines reasoning regarding classic and contemporary cases in bioethics. Professional conduct, conflicts of duties and conflicts of interests, relations among professions, cultural diversity, genetic counseling, and reproductive ethics are among topics typically included. This course is offered via the web.

PHL 423 Clinical Bioethics: Cases II (2-0-2). This course examines reasoning regarding classic and contemporary cases in bioethics. Human research subjects, informed consent, competence, organ transplantation, death and dying, and futility are among topics typically included.

PHL 424 Bioethics Policy: Prevention and Access (2-0-2). This course examines health policies regarding issues such as prevention, primary care, uninsured and underserved populations, rationing, and aims of managed-care relative to theories of justice, with international comparisons.

PHL 425 Bioethics Policy: Technology (2-0-2). This course examines the impact of rapid technological change on bioethics. Among topics typically included are DNA technology, gene therapy, enhancement of inherited traits, transplant policy, surrogacy, health and the human environment.

PHL 426 Bioethics and Law: Regulation (2-0-2). This course examines the foundations of human health institutions and practices in federal tax exemption legislation, federal financing (Medicare and Medicaid), state licensure laws, state insurance legislation, and proposal for health-law reform.

PHL 427 Bioethics and Law: Rights (2-0-2). This course examines individual rights in areas such as refusal of treatment conception, birth, abortion, protection of human subjects in experimentation, the law of medical liability, and proposed patients' rights legislation.

PHL 428 Bioethics: Special Topics (2-0-2). This course examines special topics in bioethics. May be repeated with change of topic.

PHL 432 20th-Century Philosophy: The Analytic Tradition (4-0-4). Prerequisites: PHL 130 or PHL 131 plus another philosophy course numbered higher than 260. Study of the development of analytic philosophy in the 20th century. Typical readings may include selections from the works of Frege, Moore, Russell, Wittgenstein, Ayer, Austin, Quine, Putnam, Kripke, and Davidson.

PHL 433 Advanced Symbolic Logic (4-0-4). Prerequisite: PHL 332 or permission of instructor. A continuation of the topics presented in PHL 332.

PHL 440 Moral Reasoning and Bioethics (4-0-4). An examination of ethical systems and forms of argumentation as they bear upon case studies in bioethics. Dominant ethical theories will be studied and critiqued, especially from the standpoint of application. Reasoning at the levels of principles, rules, and particular judgments will be distinguished; and the relevance of institutional practices, roles, and particular circumstances will be analyzed. This course is offered via the Web.

PHL 441 Clinical Issues in Bioethics (4-0-4). The course will focus on moral problems which arise in the day-to-day practice of health-care professionals, administrators, and researchers within the framework of existing institutions, social policies, and laws. It will include readings on controversial moral issues in clinical ethics and apply forms and strategies of moral reasoning to selected cases. This course is offered via the Web.

PHL 442 Policy Issues in Bioethics (4-0-4). Policy issues in bioethics reviews the role of governments in developing and implementing health-care policies. Readings and discussion will cover such topics as surrogacy, transplantation, problems of financing, the allocation of resources, and experimentation. This course is offered via the web.

PHL 443 Bioethics and the Law (4-0-4). Students will learn rudimentary legal research skills, the structure of the American legal system, and constitutional foundations of health-care law as applied to some classical and contemporary legal issues which may include death and dying, transplantation, genetic and reproductive law, human-subjects research, and employee testing for drug use. This course is offered via the Web.

PHL 444 Bioethics and Biotechnology (4-0-4). An application of bioethical viewpoints and major ethical theories to issues in biotechnology such as informed consent in genetic modification, potential risk and harm to humans and nonhuman animals, health resources used for human enhancement, genetic modification of agricultural products, stem cell research, use of human embryos, and human cloning. Tutorials on human genetics and recombinant DNA will be covered. This course is offered via the web.

PHL 445 Health Economics and Bioethics (4-0-4). An introduction to health economics and the economist's perspective and an exploration of applications of these constructs to bioethics and bioethical analysis. Applications may include advance directives and such bioethical principles as informed consent and patient autonomy. Patient cases and public policy proposals may be subjected to economic and bioethical analysis. The course includes an overview of bioethics. This course is offered via the Web.

PHL 446 Ethics of Human Reproduction (4-0-4). Prerequisites: none. This course explores some of the issues surrounding human reproduction including abortion, contraception, the medicalization of birth, the autonomy of pregnant women, and a variety of issues surrounding assisted reproductive technologies. An overview of the main controversies related to these topics, as well as more in-depth analysis of specific controversies, is provided. Media representations, and whether they contribute to meaningful public debate, are considered. Students develop skills to analyze these ethical issues and effectively articulate their own position. This course is offered via the web.

PHL 450 Philosophy of Mind (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. An investigation into classical and contemporary accounts of the concepts of person and action. Issues such as the mind-body problem and the problem of other minds will be discussed.

PHL 453 Social, Political, and Legal Philosophy (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. Concentration upon special problems of social, political, and legal philosophy; classical and contemporary views.

PHL 471 Theory of Knowledge (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. An examination of theories concerning the nature and extent of knowledge with an emphasis on contemporary approaches.

PHL 481 Metaphysics (4-0-4). Prerequisites: Two courses in philosophy, at least one of which must be numbered higher than 260. An examination of the problems concerning the nature of reality.

PHL 489H Research Methods for Undergraduates - Honors (4-0-4). Prerequisites: Open only to Philosophy majors in the University Honors Program who have selected a department honors adviser and are simultaneously working on their research project. Introduction to research materials and methods in philosophy.

PHL 491 Senior Seminar in Philosophy (4-0-4). Open only to students who have taken 20 or more hours of philosophy in previous semesters including at least two courses higher than 260, or by permission of instructor. Topic will vary. Course focuses on building analytical, research and writing skills in philosophy. Required for philosophy majors. Satisfies the capstone requirement for philosophy.

PHL 496 Research in Philosophy (1 to 4 credits). Exhaustive research on a philosophic problem to assist the student in attaining proficiency in independent research. Application for permission to register for PHL 496 must be submitted to department chairperson or representative during the semester prior to the enrollment in the course. May be repeated for credit.

Physics Courses

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Faculty
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Professors: Miron Kaufman (Chairperson), James Lock, Jearl Walker, George Walker; **Professors Emeriti:** Bernard Hamermesh, Herbert Schlosser, Jack A. Soules; **Associate Professor Emeritus:** Paul Hambourger; **Associate Professors** Kiril Streletzky, Thomas Taylor, Jacqueline Vitali, G. Theodore Wood, Ulrich Zurcher; **Associate Professors Emeriti:** Clyde B. Bratton, George W. Ficken, Ronald Haybron, Robert Klein, Francis C. Stephenson; **Assistant Professors:** Petru Fodor, Andrew Resnick,; **Lecturers:** Robert Deissler, Thomas Kiovsky, Jay Reynolds, Alla Zilichikhis; **Adjunct Faculty:** William Davros, Cleveland Clinic Foundation; Christopher Deibel, Cleveland Clinic Foundation; Toufiq Djemil, Cleveland Clinic Foundation; Matthew Kolar, Cleveland Clinic Foundation, Gennady Neyman, Cleveland Clinic Foundation; Martin Weinhous, Metro Health; Douglas Wilkinson, Cleveland Clinic Foundation, Tingliang Zhuang, Cleveland Clinic Foundation.

Course Descriptions

PHY 101 The Flying Circus of Physics: Motion and Heat (3-0-3). Prerequisite: one unit of high-school algebra. This course covers practical and everyday aspects of physics concepts such as kitchen physics, walking on fire, mechanics of sports, and electricity.

PHY 102 The Flying Circus of Physics: Sound and Light (3-0-3). Prerequisite: one unit of high-school algebra. Topics include waves, optics, and modern physics, how the eye and camera work, the laser, the theory of relativity, and some basic cosmology (just what is a "black hole" anyhow?).

PHY 103 The Flying Circus of Physics Laboratory (0-2-1). Corequisite: PHY 101 or PHY 102 or PHY 115 must be taken concurrently. This course is selected experiments in physics.

PHY 115 Energy and Society (3-0-3). Prerequisite: one unit of high school algebra. This is an introduction to the physical principles behind one of the most important issues for our society: the use, storage and transport of energy and its impact on the environment. Topics covered include non-renewable sources (fossil and nuclear fuels) and renewable sources (solar, hydro, wind).

PHY116 Energy and Society Laboratory (0-2-1) Corequisite: PHY115. This course is selected experiments related to the physics of energy.

PHY 193 Topics in Physics (4-0-4). Prerequisites: one unit of high-school algebra. Topics chosen by the instructor include "Science Fiction" or "Science of Photography."

PHY 200 Astronomy Laboratory (0-2-1). This course provides hands-on experience with simple observational astronomy activities. It compliments the educational experience of the Astronomy lecture courses PHY 201 and PHY 202. Either PHY 201 or PHY 202 must be taken concurrently.

PHY 201 Astronomy: Stars and Galaxies (3-0-3). Prerequisite: One unit of high-school algebra. This is an introduction to astronomy, including stars, stellar evolution, origin of elements, galaxies, and cosmology.

PHY 202 Astronomy: Planets, Asteroids and Comets (3-0-3). Prerequisite: one unit of high-school algebra. This is an introduction to solar system, including the moon, sun, planets, asteroids, comets, and meteors.

PHY 205 History of Science I (4-0-4). This course covers the development of scientific thought from antiquity to the 20th century and the new ideas of relativity and quantum mechanics. Key themes are the evolving universe and the development of Newtonian mechanics.

PHY 206 History of Science II (4-0-4). This course covers the influence of modern physics on the development of scientific thought, including its influence on a new world view. The origin and the future of the universe will be discussed.

PHY 221 College Physics I (4-2-5). Prerequisites: three units of high-school math, three units of high-school science. This course covers algebra-based physics, including mechanics, thermodynamics, fluids, and acoustics.

PHY 222 College Physics II (4-2-5). Prerequisites: three units of high-school math, three units of high-school science, PHY 221. This course covers algebra-based physics, including electricity, magnetism, optics, atoms, nuclei, and elementary particles.

PHY 231 College Physics I – Biomedical Applications (3-2-4). Prerequisites: three units of high-school math, three units of high-school science. This course covers algebra-based physics, including kinematics, dynamics, mechanical equilibrium, harmonic motion: spring and pendulum, fluids, thermodynamics: temperature, heat, ideal gases, heat engines. Physical principles are applied to problems from biology and medicine.

PHY 232 College Physics II – Biomedical Applications (3-2-4). Prerequisites: three units of high-school math, three units of high-school science, PHY 231. This course covers algebra-based physics, including sound waves, electricity, magnetism, electromagnetic waves and spectrum of light, lenses and microscopes, wave-like properties of particles and structure of atoms, nuclei, and radioactivity. Physical principles are applied to problems from biology and medicine.

PHY 241 University Physics I (4-2-5). Prerequisites: MTH 181, three units of high-school math, three units of high-school science, Corequisite: MTH 182. This course covers calculus-based physics, including mechanics, thermodynamics, and acoustics.

PHY 242 University Physics II (4-2-5). Prerequisites: PHY 241/ 243, MTH 181, MTH 182, three units of high-school math, three units of high-school science, Corequisite: MTH 281. This course covers calculus-based physics, including electricity, magnetism, optics.

PHY 243 University Physics I (Writing) (4-2-5). Prerequisites: MTH 181, three units of high-school math, three units of high-school science, Corequisite: MTH 182. This course covers calculus-based physics, including mechanics, thermodynamics, acoustics.

PHY 243H University Physics I (Writing; Honors) (4-2-5). Prerequisites: MTH 181, three units of high-school math, three units of high-school science plus either Honors standing or permission of university Honors Program. Corequisite: MTH 182. This course covers calculus-based honors physics with lab: mechanics, thermodynamics, acoustics.

PHY 244 University Physics II (Writing) (4-2-5). Prerequisites: PHY 241/ 243, MTH 181, MTH 182, three units of high-school math, three units of high-school science, Corequisite: MTH 281 This course covers calculus-based physics, including electricity, magnetism, and optics.

PHY 244H University Physics II (Writing; Honors) (4-2-5). Prerequisites: PHY 241/ 243 / 243H, MTH 181, MTH 182, three units of high-school math, three units of high-school science, plus either Honors standing or permission of university Honors Program. Corequisite: MTH 281. This course covers calculus-based honors physics with lab: electricity, magnetism, optics.

PHY 300 Research Methods in the Sciences (2-2-3). Prerequisites: Three units of high school math, three units of high school science. This is a course designed to meet the needs of future science teachers. It provides the students with the tools that scientists use to solve scientific problems, gives them the opportunity to use these tools to design and perform experiments in a laboratory setting, and enables them to become acquainted with the way scientific information is communicated.

PHY 301 Research Methods in the Sciences -Writing (2-2-3).This course has the same content as PHY 300 but includes writing-requirement credit.

PHY 310 Introduction to Holography (2-4-3). Prerequisites: PHY 241 (243), PHY 242 (244). This is a laboratory course, involving the production of single- and multiple-beam transmission and reflection holograms, and three-dimensional cylindrical holograms.

PHY 320 Introduction to Computational Physics (4-0-4). Prerequisite: PHY 221 or PHY 241. This course covers elements of modeling of physical and engineering phenomena using a programming package such as MATHCAD. Topics covered include solving systems of equations, graphing functions, differential equations, and random processes.

PHY 325 Introduction to Theoretical Physics (4-0-4). Prerequisites: PHY 241 (243), PHY 242 (244), MTH 181, MTH 182, MTH 281. This course covers the physics applications of differentiation, integration, Fourier series, differential equations, complex numbers.

PHY 330 Introduction to Modern Physics (4-0-4). Prerequisites: PHY 241 (243), PHY 242 (244), MTH 181, MTH 182, MTH 281. This course covers the theory of special relativity, wave properties of particles and particle properties of light, atomic and nuclear structure, radioactivity, and semiconductors.

PHY 335 Modern Physics Laboratory (2-4-4). Prerequisites: PHY 241 (or PHY243 or PHY243H), PHY 242 (or PHY 244 or PHY 244H), PHY 330. This is a hands-on exposure to experimental basis of modern physics, including: Milikan oil drop experiment, blackbody radiation, photoelectric effect, NMR, microwaves, and X rays.

PHY 340 Mechanics and Vibrations (4-0-4). Prerequisites: PHY 241 (243), PHY 242 (244), PHY 330, MTH 181, MTH 182, MTH 281. This course covers central force motion, classical scattering, Coriolis force, variable mass systems: rockets, rotational motion: tops, precession, Lagrange's equation, Hamilton's equations, and damped and driven oscillations.

PHY 350 Electricity and Magnetism (4-0-4). Prerequisites: PHY 330, MTH 181, MTH 182, MTH 281. This course covers vector analysis; Gauss law, electrostatic potential; electric dipoles; dielectrics; Ampere law and Biot-Savart law; magnetic dipoles, law of induction, displacement currents, and Maxwell equations.

PHY 360 Electronics Laboratory (2-4-4). Prerequisites: PHY 241 (243), PHY 242 (244); MTH 181, MTH 182, MTH 281. This course covers AC and DC circuit analysis; steady states and transients; equivalent circuits; diodes, transistors and microprocessors; digital integrated circuits; and sequential logic circuits.

PHY 395 Physics Seminar (variable credit). Prerequisites: Junior standing, permission of instructor. The course covers topics of current interest.

PHY 400 Conceptual Physics for Middle School Teachers (4-2-5). Prerequisites: Senior standing in B.S. Education: Middle Childhood Education and Licensure. The course provides the content knowledge and skills of scientific inquiry necessary for teaching physics in middle school. Learning objectives are based on the national standards for science for grades four through eight. The course content includes: kinematics, mechanics, heat and temperature, energy, energy transfer, waves, acoustics, light and optics. Lectures will coordinate with laboratory exercises and inquiry based activities.

PHY 411 Advanced Physical Laboratory (variable credit). Prerequisite: Permission of instructor. This course involves experiments in fields of current interest to physics faculty.

PHY 415 Introduction to Biological Physics (4-0-4). Prerequisites: PHY 221, PHY 222 or PHY 241 (or 243), PHY 242 (or 244). As the body of knowledge in physics expands and diffuses into the life sciences, the need for instruction in biological physics increases. Students learn how to use the concepts of physics to analyze and understand important aspects of biological systems. The course is appropriate for students majoring in physics, chemistry, biology, or engineering.

PHY 416 Macromolecular Crystallography (4-0-4). Prerequisites: PHY 221, PHY 222 or PHY 231, PHY 232, or PHY 241 (or 243), PHY 242 (or 244) and MTH181, MTH182. Macromolecular crystallography is at the heart of the genomics age allowing the determination of the three-dimensional structures of proteins that the genomes code for. This information is used to determine and understand their function and develop new drugs. Students learn the fundamentals of diffraction theory, crystal properties and the basic concepts of solving the structures of macromolecular crystals. The course is appropriate for advanced undergraduates majoring in physics, chemistry and biology.

PHY 420 Computational Physics (4-0-4). Prerequisites: PHY 320, PHY 330. This course covers numerical solutions to mechanics, electricity and magnetism, and solid-state physics problems.

PHY 430 Introduction to Medical Physics (4-0-4). Prerequisites: PHY 241 (or 243), PHY 242 (or 244) or permission of the instructor. This course will introduce students to the medical applications of radiation and imaging physics. Topics covered include interactions of radiation with biological tissues, production and properties of radionuclides, radiation therapy physics, dosimetry, diagnostic radiology, nuclear medicine, and issues of radiation safety.

PHY 440 Quantum Physics I (4-0-4). Prerequisites: PHY 330, PHY 340. This course covers the uncertainty principle, the Schroedinger equation, probability and measurement, potential barrier and well problems, rigid rotator and harmonic oscillator, and the hydrogen atom.

PHY 441 Quantum Physics II (4-0-4). Prerequisites: PHY 440, PHY 350. This course covers angular momentum and magnetic moment, Pauli spin matrices, time independent and time dependent perturbation theory, variational approximation, atomic fine structure and hyperfyne structure, partial wave analysis and the Born approximation for quantum mechanical scattering.

PHY 450 Optics and Electromagnetic Waves (4-0-4). Prerequisite: PHY 330. This course covers Maxwell equations; electromagnetic energy; electromagnetic waves; interaction of light with dielectric and metallic materials: dispersion; geometric optics; lenses and lens aberrations, mirrors, polarization, birefringence, interference, interferometer design, Frauenhoffer and Fresnel diffraction.

PHY 455 Optics Laboratory (2-6-4). Prerequisite: PHY 450 or permission of instructor. This is an advanced optics laboratory that gives students "hands-on" experience with optical instruments and techniques; experiments on dispersion in glass, interferometry, spectral analysis, diffraction, Gaussian wave optics. It is a student-designed experiment.

PHY 460 Laser Physics and Photonics (4-0-4). Prerequisites: PHY 241 (or 243), PHY 242 (or 244). This course covers basics of laser operation and photonics. Topics include spontaneous and stimulated emission, the laser principle, laser types, optical detectors, integrated optics.

PHY 470 Environmental Physics (4-0-4). Prerequisites: PHY 221, PHY 241 or PHY 243. This is the study of physical phenomena underlying a set of current environmental issues. Topics include energy and entropy laws; electromagnetic radiation; forms of energy, including fuels, nuclear, solar; percolation model; chaos theory, including population dynamics, and climate. It involvescomputer simulations.

PHY 474 Thermal Physics (4-0-4). Prerequisites: PHY 241 (or 243), PHY 242 (or 244), MTH 181, MTH 182, MTH 281. This course covers temperature, entropy, thermal equilibrium, equations of state, thermodynamic potentials, thermodynamic stability, and phase transitions; applications, including fluids, electromagnetic radiation, and computer simulations.

PHY 475 Statistical Physics (4-0-4). Prerequisites: PHY 330, PHY 474. This course covers microcanonical, canonical, grand-canonical ensembles, fermions, bosons; and applications, including fluids, normal modes, solids, metals, electromagnetic radiation, phase transitions, and computer simulations.

PHY 480 Introduction to Solid State Physics (4-0-4). Prerequisites: PHY 241 (or 243), PHY 242 (or 244). This course covers electrons in solids; principles of LED and solid-state lasers; optoelectronic properties of semiconductors; materials for optical modulation, data storage and computing; liquid crystals; and flat panel displays.

PHY 482 Introduction to Solid State Physics (4-0-4). Prerequisites: PHY 241 (or 243), PHY 242 (or 244). This course has the same content as PHY 480 but includes writing-requirement credit.

PHY 493 Advanced Topics in Physics (variable credit 1 - 4). Prerequisite: Faculty permission. This course includes topics approved by the physics faculty. It may be repeated up to 3 times for a total of 6 credits.

PHY 497 Independent Study (variable credit 1- 4). Prerequisite: Approval of physics faculty member. Content and credit are arranged with the instructor. Graded S/U.

Political Science Courses

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Faculty

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Professors: Charles Hersch, Joel A. Lieske, Qingshan Tan; **Associate Professors:** David R. Elkins, Rodger M. Govea (Chair), Jeffrey Lewis; **Assistant Professors:** Il Hyun Cho, Justin Vaughn, Neda A. Zawahri; **Emeritus Faculty:** Ronald J. Busch, Everett F. Cataldo, Robert B. Charlick, Paul Dommel, Barbara B. Green, John D. Holm, Leon Hurwitz, B. James Kweder, Hans E. Segal.

Course Descriptions

PSC 111 American Government (4-0-4). History and evolution of American political processes, institutions and public policies from the founding period to the present, including importance of federalism, culture, public opinion, parties, interest groups, elections and the media, nature and quality of American democracy, political challenges, dilemmas, and reform.

PSC 112 Controversial Issues in American Politics (2-0-2). Current controversies in American politics, including affirmative action, welfare reform, immigration policies, gay and lesbian rights, US military intervention abroad, abortion, establishment versus free-exercise of religion, gun control, crime, and civil violence. Frequent use of interactive classroom technologies, multimedia presentations, and political debates to encourage independent thinking, critical analysis, and lively discussions.

PSC 113 Controversial Issues in World Politics (2-0-2). Combines a brief survey of international relations literature with the use of a discussion/debate format to deal with contemporary issues involving the evolution of world politics and the international economy, national and international security, terrorism, human rights, nationalism, transnationalism, and national power and diplomacy.

PSC 211 State and Local Government (3-0-3). This course introduces students to features of the American states and their governments. The course will explore similarities and differences among the states' constitutions and key governmental institutions (administrative, legislative and judicial). The course will examine distinctive elements of states' politics with a particular focus on their political cultures and party systems. The course will briefly examine aspects of states' local governments.

PSC 212 Controversial Issues in American Politics (4-0-4). Focuses on current controversies in American politics, including abortion, gun control, crime, civil violence, affirmative action, welfare reform, campaign finance reform, immigration policies, gay and lesbian rights, establishment versus free-exercise of religion, and U.S. military intervention abroad. Frequent use of interactive classroom technologies, multimedia presentations, and political debates to encourage independent thinking, critical analysis, and lively discussions.

PSC 213 Controversial Issues in World Politics (4-0-4). Combines a brief survey of international relations literature with the use of a discussion/debate format to deal with contemporary issues involving the evolution of world politics and the international economy, national and international security, terrorism, human rights, nationalism, transnationalism, and national power and diplomacy.

PSC 217 Urban Politics and the African-American Experience (3-0-3). An examination of urban political institutions, decision processes, and problems of the cities and their suburbs. With regard to each topic, a primary concern will be on racism and its evolving consequences for African-Americans.

PSC 221 Comparative Politics (4-0-4). Basic concepts and theories of comparative politics through an analysis of selected political systems and governments in Western and non-Western societies. Topics will include ideology, political culture, institutional development, interest group politics, political participation, decision-making, economic development and underdevelopment, collective violence and stability, and political, economic, and bureaucratic elites.

PSC 227 Power, Authority, and Society in Non-Western Communities (4-0-4). An examination of the way selected groups of Asian, African, and Latin American societies organize themselves with respect to power and authority to cope with a set of similar social problems. Attention will also be given to how changes take place in political organization and in political cultural identity, particularly at the mass level. The course makes extensive use of popular texts and stories, photographs and video, and other primary sources from the cultures studied. Cross-listed with ANT 227/ HIS 227.

PSC 231 International Politics (4-0-4). Focuses on problems of security and strategies for enhancing security and well-being in the post-Cold War era. Basic concepts and processes of world politics are illustrated through the analysis of great power and regional rivalries. Topics include strategies and instruments such as conventional and nuclear war; alternative security strategies such as economic nationalism, diplomacy, international law, and international organization; and changes in the current international system related to economic globalization, environmental interdependence, transnational movements and nonstate actors.

PSC 241 Freedom and Authority (3-0-3). An examination of the treatment given to the differing concepts of authority and freedom by major political theorists. Specific concern will focus on the conflicts between the two concepts. Theorists considered include Hobbes, Locke, Rousseau, Madison, Tocqueville, Mill, and Green.

PSC 251 Introduction to Data Analysis (3-0-3). Sources of information for research in political science, the use of computers as a research tool, and elementary statistical analysis.

PSC 274 Introduction to the Middle East (4-0-4). This course is designed to introduce students to the history, religious diversity, political systems, economy, and culture of the Middle East. The course includes a brief examination of ancient Middle Eastern civilizations and its history to the world. The course also examines important historical junctures influencing the region today. It will include the contents, similarities, and diversities of Middle Eastern culture. The course examines three monotheistic religions and how Middle Easterners vary widely in their religious beliefs. It explores how this religious variance impacts Middle Eastern culture. The course introduces students to multiple aspects of the arts. Cross-listed with ARB 274 and HIS 274.

PSC 301 Urban Politics and Policy (4-0-4). An overview of the development and implementation of urban public policies and programs as products of institutions and processes in cities, suburbs and metropolitan areas. Special attention will be given to the condition of African-Americans.

PSC 305 Cultural Diversity in U.S. Politics (4-0-4). Examines the role of African-Americans, Hispanics, Native Americans, and other minorities in American politics. Particular attention is directed at barriers to participation, the critical factors in minority political successes, the problems and possibilities of coalition politics, and related policy issues.

PSC 310 Constitutional Law (4-0-4). Basic principles of the United States Constitution, including judicial review, separation of powers, the powers of the presidency and Congress, and federalism. Introduction to individual rights and liberties, including right to privacy and the rights of criminal defendants.

PSC 311 Civil Rights and Civil Liberties (4-0-4). Constitutional principles relating to race and sex discrimination; freedom of religion; and freedom of speech, press, and assembly.

PSC 314 State Government and Politics (4-0-4). Issues between states and nation with particular attention to financial relations. Consideration of the capacity of state legislative and administrative systems, and problems of evaluation and change. Examination of policy-area issues, including those of education and welfare.

PSC 315 Public Policy and Administration (4-0-4). Evaluation of alternative models for the U.S. policy-making process focusing on the political, institutional and bureaucratic influences of policy decisions. Emphasis will be given to the role public bureaucracies have had in shaping and influencing the policy process in a rapidly changing environment including decision-making, organizational theory, and the historical context of the administrative state.

PSC 317 Political Parties and Elections (4-0-4). Importance of political parties and elections in American political history and development of the party system; role of public opinion, parties, and interest groups in democratic politics; effects of culture, political socialization, campaign politics, and issues on voting behavior; politics of social movements, the formation of political coalitions, and partisan realignment; party activity at state and local levels.

PSC 318 The Presidency and Congress (4-0-4). Patterns of cooperation and conflict between the presidency and Congress in the making of United States public policy, both foreign and domestic; examination of issues of congressional revitalization and reform, and the dramatic growth in presidential power.

PSC 319 Public Opinion (4-0-4). Role of public opinion in democratic theory; methods and problems of polling and survey research; nature, formation, distribution, and learning of political attitudes; issues of democratic stability; group opinions, voting behavior, and elite behavior, and their impact on the policy-making process, public policy, and the quality of American democracy.

PSC 321 Political Violence (4-0-4). Background conditions leading to political violence and revolution; ideology, class, ethnicity; the state's response to civil violence; strategies to prevent or engender violence; the destruction and reconstruction of consensus in a political system; the effectiveness of violence as a method of political influence; and the basis of political order also explored.

PSC 323 African Politics (4-0-4). Unique and common patterns of political organization in Africa presented in a comparative framework; historical patterns, nature of colonial rule, impact on precolonial societies; struggle for Pan-Africanism, nationalism and liberation movements; character of postcolonial regimes. Other factors such as settler rule, racism, world economic organization and underdevelopment; domestic political responses to revolution, internal war, ethnic conflict, personal rule, patron-client relations, democratization, military intervention, institutional development, and development of civil society are explored.

PSC 324 Russia and the Successor States (4-0-4). This course is concerned with the rise and fall of the Soviet system as well as the politics of contemporary Russia and the other post-Soviet states. It considers the prerevolutionary background of the Russian Empire, the revolutions of 1917, the emergence of full-blown Stalinism, decay of the system, Gorbachev's effort at reform and the dissolution of the Soviet system. Focus also placed on nationality issues and the prospects for democratization and economic reform.

PSC 325 Western European Politics (4-0-4). Governmental structures and political processes in Western Europe; the European community and integration; separatist groups and disintegration; development of European human rights policies and processes, problems and prospects of parliamentary democracy.

PSC 326 Politics of the Third World (4-0-4). Problems and political dynamics of "developing states and societies" through a study of specific African, Asian, Latin-American, and Middle Eastern countries; class and ethnic conflict; the role of the military and bureaucracy; the capacity of the state to promote economic development and political order; role of global and regional system security and development; structural adjustment and regional autonomy policies.

PSC 327 Politics of Peaceful World Change (4-0-4). Possibilities for peaceful and equitable solutions to conflicts created by inequalities in economic development, global resource scarcity, the population explosion, and threats of ecological disaster; mechanisms for resolving these conflicts, including alternatives to the present international system; international law and organization. Emphasizes skills such as policy analysis, oral advocacy, nonviolent communications, negotiation, and arbitration.

PSC 328 International Political Economy (4-0-4). Evolution of international economic policies and theories from mercantilism, and classical liberalism; structural approaches such as Marxism and Dependency, Rational Choice; international trade; international monetary policy and debt; investment and technology exchange; economic and technical assistance; economic integration; and globalization.

PSC 329 Politics and Political Economy of the European Union (4-0-4). The institutions and policy-making process of the European Union (EU) and the theoretical traditions in the study of European integration. The institutional form of the EU and the type of European political economy and "polity" which is emerging.

PSC 330 U.S. National Security Policy (4-0-4). An examination of issues affecting U.S. national security and the processes through which policy is made. Includes an examination of U.S. strategy, civil-military relations, regional strategic appraisals, the roles of the Department of Defense and the intelligence community, the revolution in military affairs, peacekeeping, and the challenges posed by failed states, rogue states and non-national adversaries, such as insurgents, narcotraffickers and terrorists.

PSC 331 United States Foreign Policy (4-0-4). Major issues of American involvement in world politics; analysis of contemporary events and current international tensions; the politics of rivalry and alliance; the evolution of defense strategy; military interventions; diplomatic negotiations; the role of ideology, trade, and aid; U.S. foreign policy decision-making; theories of bureaucracy; interagency and interbranch relations; and role perceptions.

PSC 332 Politics in the Middle East (4-0-4). Arab-Israeli conflict and relationships among the Arab states; role of the major powers in the Middle East; consideration of ideas and political manifestations of nationalism, the impact of imperialism, aspects of military strategy, problems of development, and the politics of oil; role of ethnicity, tribalism, culture and religion in explaining politics in Middle Eastern states.

PSC 333 Latin American Politics (4-0-4). Introduction to politics and society in selected Latin American republics; comparison of political systems; governmental approaches to economic and social problems; the role of the military; hemispheric relations; and the U.S. role in Latin America. Course covers Central and South America.

PSC 334 Causes of War (4-0-4). Course examines the causes and prevention of war in both historical and theoretical perspective. While focusing on mainly the causes of large-scale interstate wars, several contemporary issues of relevance such as nuclear proliferation, ethnic conflict, and terrorism will be discussed in the later weeks of the semester. The course is structured in a way that surveys various causal claims about the origin of war at different levels of analysis. The course will also investigate several historical cases such as World War I, the Korean War, and the Vietnam War.

PSC 335 East Asian Politics (4-0-4). Focuses on the politics of China and Japan; political origins of cultural and institutional patterns, including communism, party politics, legislative affairs, local government, the role of government in economic management in promoting social order and social change. Course may deal with several additional East Asian states.

PSC 337 Canadian Government and Politics (4-0-4). Course examines how the major issues and cleavages in Canadian political life are mediated through the nation's political institutions. The cultural environment and traditions of Canada's people, and the evolution of the governing and partisan institutions of Canadian democracy are also examined. Course also focuses on relationships between Canada and the United States, and how the two nations both challenge and benefit one another.

PSC 338 Central and Eastern Europe (4-0-4). Focuses on the re-emergence of central Europe, democratization, economic change, and nationalism. Course will consider how the reunification of Germany, the end of the Cold War, and the collapse of the Soviet Union have altered the dynamics of Central and Eastern Europe; and the interplay of East and West in the area of the economic, political and cultural power of a re-united Germany.

PSC 339 Political Economy of the Middle East and North Africa (4-0-4). This course examines the challenges, obstacles, and prospects for economic development in the Middle East and North Africa. It surveys theories of economic development and applies them to individual states in the region. Specifically, the course addresses questions about the role of natural resources in development. It examines the impact of population growth and the consequences of regional conflict on development. The course explores developmental outcomes in an era of globalization.

PSC 340 Foundations of Political Thought (4-0-4). Plato, Aristotle, and other Greek-Roman political thought; main currents of medieval political theory, including Augustine.

PSC 341 Modern Political Thought (4-0-4). Political thought from the Renaissance to the present, focusing on liberalism and its critics, from Rousseau to postmodernism. Emphasis on figures such as Machiavelli, Locke, Rousseau, Marx, Foucault, and feminism as well as other theorists.

PSC 342 American Political Thought (4-0-4). Consideration of thought about American political institutions and practice. Major topics include revolutionary ideas and antecedents; framing of the Constitution and constitutional debate; 19th-century responses to slavery and large-scale industrialism; and modern social construction of race and gender. Other topics may include Jefferson, Paine, Melville, Jacksonianism, Progressivism, and modern liberal thought.

PSC 391 Special Topics in Political Science (1-0-1). Important political issues of contemporary significance with implications for future change. May include foreign or domestic issues. Topics will be announced. May be repeated for credit with departmental permission.

PSC 392 Special Topics in Political Science (2-0-2). Important political issues of contemporary significance with implications for future change. May include foreign or domestic issues. Topics will be announced. May be repeated for credit with departmental permission.

PSC 393 Special Topics in Political Science (3-0-3). Important political issues with contemporary significance and potential consequences for future change. May include foreign or domestic issues. Topics will be announced. May be repeated for credit with departmental permission.

PSC 394 Special Topics in Political Science (4-0-4). Important political issues with contemporary significance and potential consequences for future change. May include foreign or domestic issues. Topics will be announced. May be repeated for credit with departmental permission.

PSC 401 City Council Internship Program (1 to 6 credits). Prerequisites: Introductory core and completion of the urban specialization or permission of the instructor and students must have at least a 3.0 GPA in their major. Fieldwork assignments with members or committees of Cleveland's City Council. Research paper required.

PSC 402 Campaign Politics Internship (1 to 6 credits). Prerequisites: Introductory core and completion of a specialization or permission of the instructor and students must have at least a 3.0 GPA in their major. Fieldwork assignments with candidates for public office, examination of the literature on campaigns and elections combined with intensive training in campaign strategy and tactics, and seminars to assess fieldwork experience. Research paper required. (Offered only in even-numbered election years.)

PSC 403 Administrative Internship Program (1 to 6 credits). Prerequisites: Introductory core and completion of a specialization or permission of the instructor. Fieldwork assignments with executive branch agencies of government, community, or neighborhood organizations and other agencies whose activities are directed toward public-sector concerns; seminars to assess fieldwork experience. Research paper required.

PSC 405 State Government Administrative Internship (1 to 6 credits). Prerequisites: Introductory core and completion of a specialization or permission of the instructor. Fieldwork assignments with executive branch agencies of state government, seminars to assess fieldwork experience and to examine and discuss operations of state government. Written report required.

PSC 406 International Relations Internship (1to 5 credits). Prerequisites: Introductory core in political science or international relations, and completion of at least one additional 300- to 400-level course in international politics, or permission of the instructor. Fieldwork assignments with public or private sector actors or with non-governmental organizations with international operations and/or policy interests. Written report required. Does not substitute for PSC 421/422 in the IR major curriculum.

PSC 407 Summer Internship (1 to 4 credits). Prerequisite: Introductory core or permission of the instructor. Fieldwork assignments with a city council, an administrative organization (government or non-profit), or an electoral campaign. This course does not count toward the completion of the Public Services Specialization. A research paper is required along with a final report on the internship placement.

PSC 420 Seminar in American Politics (5-0-5). Prerequisites: Introductory core and one 300-level course in American politics, or permission of the instructor. Intensive examination of selected topics in American politics. Extensive writing assignment required. Detailed description of topics and methods to be publicized in advance. May be repeated for credit with departmental permission.

PSC 421 Seminar in Comparative Politics (5-0-5). Prerequisites: Introductory core and one 300-level course in comparative politics, or permission of the instructor. Intensive examination of selected topics in comparative politics. Extensive writing assignment required. Detailed description of topics and methods to be publicized in advance. May be repeated for credit with departmental permission.

PSC 422 Seminar in International Relations (5-0-5). Prerequisites: Introductory core and one 300-level course in international politics, or permission of the instructor. Intensive examination of selected topics in international relations. Extensive writing assignment required. Detailed description of topics and methods to be publicized in advance. May be repeated for credit with departmental permission.

PSC 423 Seminar in Political Theory (5-0-5). Prerequisites: Introductory core and one 300-level course in political theory or law, or permission of the instructor. Intensive examination of selected topics in political theory. Extensive writing assignment required. Detailed description of topics and methods to be publicized in advance. May be repeated for credit with departmental permission.

PSC 424 Seminar in Urban Politics (5-0-5). Prerequisites: Introductory core and one 300-level course in urban or American politics, or permission of the instructor. Intensive examination of selected topics in American politics. Extensive writing assignment required. Detailed description of topics and methods to be publicized in advance. May be repeated for credit with departmental permission.

PSC 496 Independent Study (3-0-3). Prerequisites: Junior standing, permission of instructor. Independent study guided by faculty member. A substantial written assignment is one of the requirements.

PSC 497 Independent Study (4-0-4). Prerequisites: Junior standing, permission of instructor. Independent study guided by faculty member. A substantial written assignment is one of the requirements.

Psychology Courses

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Faculty

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Professors: Brian F. Blake, Constance L. Hollinger, Boaz Kahana, Kathleen M. McNamara(Chairperson), Richard F. Rakos, , Benjamin Wallace, John P. Wilson; **Associate Professors:** Chieh-Chen Bowen, Leslie E. Fisher, Michael Horvath, Katherine S. Judge, Colleen McMahon, Amir Poreh, Andrew B. Slifkin, Albert F. Smith; **Assistant Professors:** Lisa S. Doane, Brenda Johnson, Conor T. McLennan,; Naohide Yamamoto; **Emeritus Faculty:** Stephen R. Coleman, David M. Grilly, Stephen D. Slane; **Adjunct Faculty:** Sherry Ball, Michael Wisniewski.

Course Descriptions

PSY 101 Introduction to Psychology (4-0-4). This is a broad survey course covering topics such as research methodology; biological bases of behavior, perception, motivation and emotion; learning and memory; development; intelligence; personality; mental disturbance; and social influence. It is a prerequisite to most other psychology courses.

PSY 101H Introduction to Psychology - Honors (4-0-4) Prerequisite: Honors standing or permission of University Honors Program. This is a survey of psychology, including coverage of methodology and measurement; intelligence and personality; psychological disorders and their treatment; the biological bases of behavior; social influence and persuasion; learning; and perception, memory, and cognition.

PSY 180 Introduction to Gerontology (3-0-3). This course is an overview of the demographics of aging, the social, biological, psychological, and functional experience of aging, the concept of successful aging, and the careers available in working with older adults. It is cross-listed with HSC 180.

PSY 213 Behavioral Science Statistics: Description (2-0-2). This course is an introduction to the use of descriptive statistics in analyzing and interpreting data in the social sciences. Credit for this course may not be earned by any student who has received credit for PSY 311.

PSY 220 Child Development (3-0-3). This course reviews the literature on child biological, motor, perceptual, cognitive (including intelligence), language, emotional, social, and gender development. Child development history, theory, and research strategies are discussed, as well as the effect of family, peers, media, and schooling.

PSY 221 Adolescent Psychology (3-0-3). This course is the study of human development through adolescence to maturity. The role of maturational changes, and peer and family influences in the process of self-emergence and personal adjustment is emphasized.

PSY 223 Life Span Development (4-0-4). Prerequisite: PSY 101. This course in an overview of cognitive, social, emotional, and physical development from conception through old age.

PSY 255 Psychology of Women (4-0-4). This course provides an overview of women's issues from a psychological perspective ranging from a re-examination of traditional theories of personality to current topics of research interest. Where relevant, the course draws heavily from the research literature on sex differences and sex role socialization.

PSY 293 Special Topics in Psychology (2 to 4 Credits). Course content is announced in the semester course schedule. This course may be taken three times on different topics.

PSY 311 Behavioral Science Statistics (4-0-4). Prerequisite: PSY 101. This course includes the application of descriptive and inferential statistics to the analysis and interpretation of data in the social sciences, with special emphasis on hypothesis testing.

PSY 331 Industrial-Organizational Psychology (4-0-4). Prerequisite: PSY 101. This is an introduction to the methods used by industrial/organizational psychologists to increase organizational effectiveness and individual well-being. Topics include selection, training, appraisal, job attitudes, work motivation, leadership, job design, organizational culture, and work environment.

PSY 335 Consumer Psychology (4-0-4). Prerequisite: PSY 101. This course involves the examination of the role of psychological processes (such as attitudes, needs, and personality) in influencing one's reaction to consumer goods and services. Implications for advertising, marketing research, and public opinion polling are addressed.

PSY 339 Social Psychology (4-0-4). Prerequisite: PSY 101. This course covers the theory and method in social psychology, impression formation, social cognition, attitude change, social influence, group processes, and applications of social psychology.

PSY 342 Psychology of Personality (4-0-4). Prerequisite: PSY 101. This course surveys the major theories of personality and its measurement. Emphasis is placed on understanding how personality influences behavior. Psychodynamic, humanistic, and behavioral perspectives, among other topics, are surveyed.

PSY 344 Intellectual and Personality Testing (4-0-4). Prerequisite: PSY 101. This course covers basic theory of psychological assessment. The construction, administration, and interpretation of psychological tests of intelligence, abilities, and personality are discussed. Depending on the instructor, emphasis is placed on measurement theory or practical applications.

PSY 345 Abnormal Psychology (4-0-4). Prerequisite: PSY 101. This course involves the examination of the field of abnormal psychology, surveying the major psychological disorders and their classification. Causes and treatments of the major disorders are explored from various theoretical perspectives.

PSY 349 Introduction to Clinical Psychology (4-0-4). Prerequisite: PSY 101. This course is an introduction to the professional practice of clinical psychology. Clinical and research activities (assessment, therapy, consultation, and system intervention), training models, settings (clinic, hospital, school, and court), and professional issues (roles, ethics, and laws) are among the topics examined.

PSY 351 Personal Behavior Modification (4-0-4). Prerequisite: PSY 101. This is an introduction to behavioral theory, assessment, and modification techniques. Consideration of several skills central to adjustment in contemporary society,such as assertion, active listening, anger and stress management, rational thinking, and decision-making are covered. Students are required to conduct a behavioral self-management project that attempts to change a personally relevant behavioral concern and then describe the project in a detailed paper.

PSY 352 Human Sexuality (4-0-4). Prerequisite: PSY 101. This course provides students with a balanced presentation of theory, data, and practical application in the area of human sexuality. Students explore their attitudes, beliefs, and feelings about human sexuality. The course helps students become more comfortable with their own sexuality; develop greater sensitivity to the attitudes, beliefs, and feelings of others, and create and maintain healthy and fulfilling relationships with others.

PSY 353 Health Psychology (4-0-4). Prerequisite: PSY 101. The impact of behavior, cognition, and affect on biological function and dysfunction is examined from theoretical and empirical perspectives. Stress and coping styles, behavioral medicine (such as compliance, pain management, and behavioral factors in acute and chronic illness), lifestyle choices, and habit control are among the topics considered in relation to the prevention and treatment of disease.

PSY 356 Multicultural Psychology (4-0-4). Prerequisite: PSY 101. This course involves the examination of theories of differences and their application to behavioral change. Diversity across race, gender, and class is explored.

PSY 357 Humanistic/Transpersonal Psychology (4-0-4). Prerequisites: PSY 101 and at least one psychology course at the 200 level, or permission of instructor. This course introduces students to the subject matter of humanistic/transpersonal psychology both in terms of underlying concepts and in terms of selected experiential components. Humanistic/Transpersonal psychology addresses questions of value, meaning, and purpose. Some key concepts are peak experiences, self transcendence, optimal mental health, and transpersonal development.

PSY 361 Psychology of Consciousness (4-0-4). Prerequisite: PSY 101. This is an examination of a wide range of material relevant to the understanding of human consciousness. Topics include the nature and history of human consciousness, altered states of consciousness, sleep and dreams, meditation, biofeedback, hypnosis, and behavior-altering drugs.

PSY 368 Perceptual Processes (4-0-4). Prerequisite: PSY 101. This course is a detailed review of human sensory and perceptual processes with applications to psychological issues (such as visual form perception, auditory sensory analysis, perceptual constancies, and attention). The visual and auditory modalities are emphasized.

PSY 370 Psychology of Learning (4-0-4). Prerequisite: PSY 101. This course is a survey of research findings and theoretical issues in the study of basic learning processes, such as habituation and sensitization, varieties of conditioning, contingencies of reinforcement and punishment. Such processes contribute to understanding and treating behavioral problems.

PSY 372 Memory and Cognition (4-0-4). Prerequisite: PSY 101. This course involves the examination of major areas of theory and research in cognitive psychology and psycholinguistics, including the topics of perception and attention, memory, semantics, language comprehension, production and acquisition, and the processes of reasoning and decision-making.

PSY 385 Psychology of Motivation (4-0-4). Prerequisite: PSY 101. This course is a survey of major concepts, research findings, and issues in the study of the selection, initiation, and persistence of behavior across the spectrum of psychology.

PSY 390 Field Placement (0-4-4). Prerequisites: PSY 101, at least 8 credit hours of psychology courses at the 300- to 400-level and permission of the instructor. Advanced students are placed in an applied setting in the community, presented with the opportunity to learn the process of utilizing previously acquired academic knowledge within the context of an applied setting. Placement experiences are supplemented by on-site supervision, weekly group meetings, outside reading assignments, and a written report. Up to 8 credit hours may be taken, but only eight credit hours of PSY 390 and PSY 396 combined can be applied toward the 36-hour requirement for psychology majors.

PSY 393 Special Topics in Psychology (1 to 4 credits). Prerequisite: PSY 101. Course content is announced in the semester course schedule. May be taken three times with different topics.

PSY 396 Independent Study (1 to 4 credits). Prerequisites: PSY 101, PSY 311 or equivalent, written permission of the instructor, and departmental approval. Up to 8 credit hours may be taken, but only 8 credit hours of PSY 390 and PSY 396 combined can be applied toward the 36-hour requirement for psychology majors. Offered every semester.

PSY 411 Computer Applications of Statistics (4-0-4). Prerequisites: PSY 101 and PSY 311 or equivalent or permission of instructor. This course is designed to help students become proficient at using statistical software (such as SAS) in order to analyze data. Emphasis is also placed upon interpreting analyzed data. Topics covered are ANOVA, MANOVA, multiple regression, and chi-square.

PSY 412 Psychology Laboratory (2-6-4). Prerequisites: PSY 101 and 311 or equivalent. This course covers methods of research design, data collection, data analysis, and reporting of research findings. Students conduct empirical research and write reports.

PSY 414 Writing in Psychology (2-0-2). Prerequisites: PSY 101. This course is designed to develop the writing skills of students with respect to writing conceptual (review or theoretical) papers according to APA format. A substantial written report is one of the requirements. Enrolled students must be concurrently enrolled in any 300- or 400-level content-based psychology course. Prior to registering, students must obtain a written agreement from the content course instructor to

serve as a grader of the required written report. The content course instructor, in consultation with the student, determines the topic of the written report.

PSY 429 Psychology of Aging (4-0-4). Prerequisite: PSY 101. This course is a comprehensive survey of aging — the final developmental period in the lifespan. Topics include methodological issues, theoretical perspectives on aging, changes in cognitive, social, and personality functions, and psychopathology.

PSY 448 Mental Health and Aging (4-0-4). Prerequisites: PSY 101 and PSY 345, or permission of instructor. This course focuses on the nature and problems of old age, including change, and stability associated with the aging process; mental-health issues; assessment and treatment of emotional and organic brain disorders in late life, and long-term care vs. home-care issues.

PSY 451 Human Performance (4-0-4). Prerequisite: PSY 101. This is a review of the major empirical studies and theoretical trends that have shed light on our understanding of the processes by which humans, and other animals, generate, control and learn goal-directed behavior (action).Topics include information processing, attention, sensory and central contributions, principles of simple movement, coordination, and learning processes.

PSY 479 History of Psychology (4-0-4). Prerequisites: PSY 101, and three Psychology courses (not to include PSY 396). This course is an examination of the development of psychological ideas since the Classical Period and of Psychology as a discipline since the nineteenth century.

PSY 481 Psychopharmacology (4-0-4). Prerequisite: PSY 101 and BIO 100 or equivalent. This course covers the principles of drug actions in the nervous system and describes the effects of drugs on behavioral variables; deals with drugs that are commonly used in recreational and clinical settings.

PSY 482 Biological Basis of Behavior (4-0-4). Prerequisites: PSY 101 and BIO 100 or equivalent. This course reviews our knowledge of how behavior and cognition are controlled by neural and other physiological processes. The content falls into three areas: an examination of neurons and neurotransmitters; a description of sensory and motor systems; and a summary of various behavioral and cognitive phenomena (e.g., learning, memory, psychiatric disorders) and how the central nervous system is involved in their control.

PSY 487 Brain and Cognition (4-0-4). Prerequisite: PSY 101. This course on cognitive neuropsychology is the study of cognitive processes as revealed by their disruption due to brain damage, and by modern techniques of brain investigation. The course presents current topics in cognitive neuropsychology, including units on basic brain anatomy and functioning, perceptual and attentional processes, language, and memory.

PSY 493 Special Topics in Psychology (2 to 4 credits). Prerequisite: Psychology major, senior standing, or permission of instructor. This is a seminar on current research in psychology. Specific topics are announced in the semester course schedule. It may be taken three times on different topics.

PSY 495H Honors Seminar (4-0-4). Prerequisites: PSY 101 and permission of instructor or enrollment in University Honors Program. For students who have been admitted to the Honors Program in Psychology. This is a discussion of research methods and current controversies in psychology; and a development of a research proposal for the project that will be carried out in PSY 497H and completed in PSY 498H.

PSY 497H Honors Project (1 to 4 credits). Prerequisites: PSY 101 and PSY 495H, and permission of instructor. For students who have been admitted into the Honors Program in Psychology, and who have taken PSY 495H. The student conducts the research proposed during PSY 495H. Research is supervised by the director of the Honors Program or by another faculty member.

PSY 498H Honors Project and Defense (1 to 4 credits). Prerequisites: PSY 101, PSY 495H, and permission of instructor. For students who have been admitted into the Honors Program in Psychology and who have completed PSY 495H. The student completes the research proposed during PSY 495H, and writes and defends an honors thesis. Research is supervised by the director of the Honors Program or by another faculty member.

PSY 499 Exit Evaluation (0-1-0). Prerequisite: senior standing. This course comprises of the final exit examination and outcomes assessment evaluation required of all graduating seniors. Graded S/U.

Public Safety Management Courses

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Faculty

Link to Profiles of Full-time Urban Studies Department Faculty

Professors: Sanda Kaufman (Director, M.A. in Environmental Studies Program), Wendy Kellogg (Associate Dean and Department Chair), Roberta Steinbacher (Director, Undergraduate Programs); **Associate Professors:** Jennifer Alexander (Director, MPA and MNAL Programs), Brian Mikelbank; **Assistant Professors:** Benjamin Clark, Ronnie Dunn, Sung-Gheel Jang, Haifeng Qian, Christine Rush, Stephanie Ryberg.

Course Descriptions

PSM 302 Contemporary Urban Issues (4-0-4). The physical, social, and economic dimensions of the urban crisis emphasizing minority communities; traditional and nontraditional approaches to problem definition and solution, techniques for understanding and shaping the physical environment; and constraints to problem solving in urban areas. Cross-listed with UST 302.

PSM 385 Practicum in Public Safety Management (Variable 2-24 credits). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in management, communication skills, community safety needs and the analytical tools for addressing issues and problems in public safety services and systems.

PSM 433 Negotiation and Conflict Management (4-0-4). Examines conflict as an omnipresent component of any decision-making environment. Offers tools for understanding the nature of conflict; devising individual and group strategies that minimize the destructive consequences of conflict; and identifying solutions that are satisfactory to all involved. Includes lectures, discussions, and simulation games. Cross-listed with NAD 433 and UST 433.

PSM 451 Public Safety Management (4-0-4). Introduction to public sector management in law enforcement, fire safety and related public safety agencies; leadership and management styles; decision-making and team building.

PSM 452 Management of Urban and Nonprofit Organizations (4-0-4). Capstone course coordinating knowledge and skills gained through fulfillment of the requirements for a major in Public Safety Management. Cross-listed with NAD 452 and UST 452.

PSM 453 Managing Urban Diversity (4-0-4). Study of diversity including circumstances faced in urban settings that are exacerbated or affected by diversity factors; exploration of a range of social, political, and economic issues related to diversity. Cross-listed with NAD 453 and UST 453.

Religious Studies Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors Emeriti: Lee W. Gibbs, David E. Bynum, Frederick H. Holck; **Associate Professors:** Matt Jackson-McCabe (Chairperson), Derwood C. Smith, Stephen Cory; **Associate Professor Emeriti:** Edward P. Brennan, James E. Royster; **Assistant Professors:** Sucharita Adluri, Stephen Taysom.

Course Descriptions

REL 101 Understanding Religion (4-0-4). A study of religions of the world through their myths, symbols, rituals, practices, and teachings.

REL 217 Religion in Black America (4-0-4). Historical study of the religious movements of Black Americans.

REL 227 Science and Belief (3-0-3). Inquiry into modern scientific and religious consciousness in the light of modern scientific approaches to "reality" and the influence of Eastern religious thought in the West.

REL 231 Introduction to the Old Testament (4-0-4). Examination of the literature of the Old Testament in the light of its historical context.

REL 232 Jesus and the Gospels (4-0-4). The life and teachings of Jesus in their historical context, and examination of the ways in which Jesus is interpreted in the gospel materials.

REL 233 Paul and the Development of Christianity (4-0-4). Study of the emergence of the early Christian movement from its beginning through the time of the Apostle Paul.

REL 234 The Later New Testament (4-0-4). Study of the development of the early Christian movement from the middle of the first century through the second century.

REL 235H Origins of the Christian Religion - Honors (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. An introduction to the critical study of Christian origins and the New Testament as seen from the perspective of comparative religion. After a brief introduction to religion in the ancient Mediterranean world, the course investigates the evolution of early Christian religion from Jesus to his earliest followers in this context, with special attention to issues of myth, ritual, spirit possession, ethics, social identity, and institutional authority. Underlying themes include the relation of the first Christians to other groups of the ancient Mediterranean world, and the question of unity and diversity in the New Testament. Emphasis on close, critical analysis of primary texts.

REL 236: Introduction to the New Testament (4-0-4). A survey of major issues in the critical study of the New Testament and Christian origins with emphasis on close reading of the primary literature. Students may not receive credit for both REL 235H and REL 236.

REL 245 Religion in America (4-0-4). Exploration of major religious issues arising out of the development and encounter of Protestantism, Catholicism, and Judaism in America.

REL 249 Current Moral Issues (4-0-4). This course seeks to clarify moral frameworks for examining such important personal and social moral issues as the taking of human life, race relations and poverty, patterns of sexual behavior, and business practices.

REL 250 Stages of Life (3-0-3). An overview of stages of life topologies in various spiritual traditions, such as the Hindu topology of student, householder, forest-dweller, and wandering ascetic. The course focuses on maturing to old age. Contemporary problems of the aged are addressed from the spiritual perspective.

REL 251 Perspectives on Death and Dying (4-0-4). Interdisciplinary examination of death and dying as seen from the viewpoints of religion, psychology, biology, and law.

REL 260 Women and Religion (3-0-3). An historical approach to the questions surrounding women and traditional religious roles, ideals, and models.

REL 261 Religion and the Mystery of Evil (4-0-4). Exploration of the religious experience of evil as symbolically depicted in terms of magic, witchcraft, and the Devil.

REL 265 Religion and Culture (4-0-4). Interaction of religion and culture as seen in such areas as literature, art, film, music, and theater.

REL 268 Religion and Culture in Africa (3-0-3). Exploration of religious traditions in selected African cultures as represented in literary texts, drama, art, and theological writing.

REL 276 Eastern Religions (4-0-4). An introduction to Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and Shinto. A consideration of their origins, development, and contemporary trends. Asian Studies course.

REL 280 Introduction to Mythology (4-0-4). An introduction to ancient Greek mythology and to the theory of mythology in general. The course will focus on the Homeric Iliad and later interpretations of the Iliad.

REL 285 Myths of Fate and Destiny (4-0-4). A study of fate and destiny in the Hebrew story of Abraham, the Tsimshian Indian legend of Asdiwal, and the Odyssey of Homer.

REL 317 Religious Ethics of Malcolm X and Martin Luther King (4-0-4). This course explores the religious ethics of Malcolm X and Martin Luther King Jr., as presented in their own speeches and writings and the works of various interpreters.

REL 321 Contemporary Christian Thought (4-0-4). Selected topics in the background and development of recent Christian thought.

REL 336 Hellenistic and Roman Religions (4-0-4). Study of Graeco-Roman religions of the Hellenistic period. Topics include mystery religions, emperor worship, miracle workers, magic, astrology, and savior figures.

REL 340 Folktale (4-0-4). This course examines the interplay of human, demoniac, and divine elements in folktales.

REL 341 The Origin of Judaism (4-0-4). History, institutions, and thought of Judaism from the Exile (587 B.C.E.) to the formation of the Babylonian Talmud (circa fifth century C.E.).

REL 342 The Rise of Modern Judaism (4-0-4). Cultural, social, and religious history of the Jews in the Middle Ages and modern times, with particular emphasis on Judaism in America in the 20th century.

REL 343 Ancient and Medieval Christianity (4-0-4). Historical development of Christianity from the early period to the Renaissance.

REL 344 The Rise of Modern Christianity (4-0-4). Historical development of Christianity from the Reformation to the present.

REL 346 Christian Mysticism (4-0-4). An exploration of the tradition of mystical thought and practice in Western religious culture. The course begins from the beliefs of the ancient world about the human person and divinity that are the primary enablers of mystical thinking and goes on to examine the development of the mystical tradition of the Christian West in its social, literary, religious, aesthetic, and personal dimensions.

REL 355 Religion After Freud and Jung (4-0-4). Examination of the psychological interpretation of religious experience, myth, and rituals, as set forth in some of the most relevant works of Sigmund Freud and Carl Gustav Jung.

REL 360 Hinduism (4-0-4). Origin and historical development of Hinduism, including its systems of thought, religious literature, institutions, and practices.

REL 362 Buddhism (4-0-4). Origin and historical development of Buddhism, including its systems of thought, religious literature, institutions, and practices.

REL 364 Islam (4-0-4). Origin and historical development of Islam, including its theology, institutions, and practices.

REL 366 Modern Islamic Movements (4-0-4). Course will explore works of modern Islamic writers from a variety of backgrounds and perspectives. Review will include arguments of more radical Islamists such as Sayyid Qutb or the Ayatollah Khomeini, but also will examine the works of Muslim thinkers who represent a different, more liberal interpretation of Islam. Topics include: Islam and Democracy, Role of Women in Islam, Islam and Modernity, Islam and Holy War, and Islamic views on religious and political authority.

REL 367 Muslim Relations with Christians and Jews (4-0-4). In this course, we will study the history of conflict and cooperation between Christians, Muslims and Jews, read foundational, historical, and modern texts exemplifying views from each faith community towards the others, examine modern conflicts, and learn about recent approaches at inter-faith dialogue and cooperation. Background knowledge of Christianity, Judaism, and Islam is helpful, and introductory information on all three faiths will be available on two hour reserve at the library for those who are interested.

REL 368 Religion in the Israeli-Palestinian Conflict (4-0-4). In this class we will study the role that religion has played and continues to play in the conflict between Israelis and Palestinians, both positive impacts and difficulties it has created. We will become familiar with different variations within the religious traditions of Judaism, Christrianity, and Islam and the involvement that each has had in the conflict. Course requirements include a 10-12 page original research paper, ten reading responses, participation in five case study debates, a map assignment and a final examination.

REL 370 Sexual Ethics (4-0-4). A critical examination of some current topics in sexual ethics from religious and social perspectives.

REL 374 Paul and Christian Origins (4-0-4). An investigation of Paul's role in the emergence of Christianity through a critical examination of his own writings and the writings of his earliest interpreters. Special attention will be given to Paul's efforts to create and maintain communities with a distinct social and religious identity within the ancient Mediterranean world; to the beliefs and practices that defined those communities; and to the controversies Paul's efforts generated, both in his own day and in subsequent Christianity.

REL 376 Women in Early Christianity (4-0-4). An examination of the attitudes toward, and roles of, women in the Greco-Roman and Jewish worlds; in the teaching of Jesus; in Paul; and in early Christianity through the second century.

REL 380 Ancient Greek Mythology: The Gods (4-0-4). A study of ancient Greek gods, godhead, and folk religion based primarily on Homer, The Hymns and Hesiod.

REL 463 Myth, Legends, and Folk Tales (4-0-4). Examination of the symbolism in, and the interrelationships between, typical myths, legends, and folk tales. Several archetypal stories are read and discussed.

REL 466 Advanced Topics in the Historical Jesus (4-0-4). Prerequisite: REL 232. Selected topics in the study of Jesus and the origin of the early Christian movement. May be repeated for credit with change of topic.

REL 468 Advanced Topics in Paul (4-0-4). Prerequisite: REL 233. An advanced study in the place and significance of Paul in early Christianity.

REL 495 Seminar in Religion (4-0-4). Prerequisite: Two courses in religion or permission of instructor. Intensive examination of the works of specific religious thinkers and movements. Specific topics listed in the quarterly course schedule. May be repeated with a change of topic for up to 12 credit hours.

REL 496 Research in Religion (2 to 4 credits). Guided independent research, term paper and/or examination required as appropriate. Application for permission to register must be submitted to the chairperson during the semester prior to the enrollment in the course. May be repeated for up to 12 credit hours.

REL 498 Senior Seminar (2 credits). Capstone seminar for Religious Studies majors. Senior standing.

College of Sciences and Health Professions Courses

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Course Descriptions

SCI 220 Science as a Way of Thinking (4-0-4). Prerequisites: Completion of General Education Requirements in the areas of College Writing/English Composition and of Mathematics/Quantitative Literacy. This is an introduction to scientific reasoning, the nature of scientific evidence, and the foundation of major scientific theories. Examples from the major scientific disciplines are used to illustrate how scientists create, use, and update their views of the world.

SCI 220H Honors Science as a Way of Thinking (4-0-4). Prerequisites: Prerequisite: Honors standing or permission of university Honors Program. Completion of General Education requirements in the areas of English Composition and of Mathematics and Logic. An introduction to scientific reasoning, the nature of scientific disciplines will be used to illustrate how scientists create, use, and update their world.

SCI 298 Science Internship (0-3-3). Prerequisite: Written permission of supervising CSU faculty member. Guided hands-on experience of clinical or research activities in a community setting. This course is an individually designed course in which each student will write a contract with a community agency or institution. The supervising CSU faculty member will review and approve the contract, and identify the appropriate number of credit hours based on the proposed activities. Grading will be on a "satisfactory/unsatisfactory" scale.

Slovenian Courses

SLN 101 Beginning Slovenian I (4-0-4). Development of proficiency in speaking, understanding, reading, and writing Slovenian with contextual information.

SLN 102 Beginning Slovenian II (4-0-4). Prerequisite: SLN 101 or the equivalent course with C or better. Development of proficiency in speaking, understanding, reading, and writing Slovenian with contextual cultural information.

Social Work Courses

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Faculty

Link to School Personnel
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Professors: Murali Nair (Director, School of Social Work), Maggie Jackson (MSW Program Director), Larry W. Foster, Lonnie Helton, Edward A. McKinney, **Professors Emeritae:** Winifred Bell, Zev Harel, Willa M. Hemmons, Elizabeth Lewis, Ruth Ellen Lindenberg; **Associate Professors:** Christopher Mallett (BSW Program Director), Elizabeth Cagan, Andrew W. Edwards, Michael R. Williams; **Assistant Professors:** Craig Boitel, Patricia Stoddard-Dare, Mamadou M. Seck, Lisa Workman Crenshaw; **Coordinator of Field Education:** Valerie Treisch-Chirdon; **Assistant Coordinator of Field Education:** Edith Anderson.

Course Descriptions

SWK 150 The Black Experience and Contemporary Society (3-0-3). This course is a comprehensive overview of the contemporary Black experience as viewed from the social work perspective. This perspective assumes that being Black exposes one to differential treatment by social institutions. It also strives to introduce students to effective strategies for use at the individual, family, group, and community levels which seek to offset racism's negative consequences.

SWK 200 Introduction to Social Work (3-0-3). Prerequisite to the major. Introduces students to concepts, settings, and vulnerable populations related to the field of social work. Emphasis placed on purposes, values, ethics, knowledge, and skills that characterize the professional social worker. Provides an overview of theoretical and practical knowledge about the social work profession needed for entry levels of practice in social work..

SWK 201 Contemporary Social Welfare (3-0-3). Prerequisite to SWK 300. Surveys the U.S. social welfare system, its purposes, historical development, and present functioning. Examines social welfare in a local, national, and international contexts and in relation to broader political, social, and economic systems. Addresses how social welfare responds to poverty, racism, sexism, and other institutionalized forms of oppression and injustice. Reviews alternative programs and policies that better meet human needs.

SWK 240 Administration of Justice (3-0-3). Study of criminal justice system. Topics include criminal prosecution, police and court functions, sentencing, and corrections, with critical examination of present practices and implications for change.

SWK 255 Community Leadership Development (4-0-4). The course introduces students to leadership issues, concepts, and situations that are evident in small groups, organizations and communities. Students will analyze leadership behavior through the use of assigned readings, written assignments, and service-activity. The course will assist students to reflect on their own leadership potentials, opportunities, learn from these experiences, and make transition from student leadership to professional/community leadership. The emphasis will be on citizen leadership in our diverse society.

SWK 259 The Child, the Family, and the Law (3-0-3). Defines, describes, and analyzes the legal situation of children in an adult-oriented society. Investigates children's rights with respect to major societal institutions, such as family, schools, the justice system, and the welfare system. Assesses societal attitudes, values, and beliefs to determine their impact upon the legal position of the child within these social systems. Explores current issues in adoption, abortion rights, and deinstitutionalization.

SWK 300 Social Welfare Policy (3-0-3). Prerequisite: SWK 201. Examines the policy-making process in social welfare, from policy formulation and development to implementation and impact. Reviews major social welfare policy developments in U.S. history, such as income security, health care and civil rights. Emphasizes conceptual and analytic models for policy development and evaluation in relation to social work's commitment to serving populations at risk and promoting global social and economic justice.

SWK 302 Human Behavior and Social Environment - Micro (3-0-3). Prerequisite: Junior standing or permission of instructor. Comparative analysis of selected theories of human behavior in the social environment through the life cycle for the purpose of understanding criteria for selection, use, and integration of theory and social intervention.

SWK 303 Human Behavior and Social Environment - Macro (3-0-3). Prerequisite: Junior standing or permission of instructor. Comparative study of human behavior within the contexts of formal and informal social systems (families, small groups, neighborhoods, organizations), focusing on the relationship between social environment and human behavior.

SWK 304 Perspectives on Social Work Research I (3-0-3). Prerequisite: SWK 201. Prerequisite to SWK 305. Introduction to the philosophy and methodology of science; acquaints the student with research techniques, strategies, and resources; develops critical readership ability; promotes consumership of research findings in social-work practice; instructs in the ethical and political considerations which are inherent in research. The course also provides students with skills to develop field research proposals.

SWK 305 Perspectives on Social Work Research II (3-0-3). Prerequisite: SWK 304. This course builds on the knowledge acquired in Perspectives on Social Work Research I. This class aims to expand students' understanding of quantitative and qualitative methodologies and techniques and skills for data collection and management. It also aims to provide students with computer skills for text and data processing and data processing techniques for descriptive and inferential statistics from research data. This course will expand students' knowledge and skills for social-work practice-related research and evaluation.

SWK 340 Legal Aspects of Human Services (3-0-3). This course provides an opportunity to become familiar with legislative process, litigation and the courts, and administrative law; analysis of the relationship between individual rights and human services, including mental-health law, juvenile, narcotics, and housing laws.

SWK 341 Corrections: Institutional and Community-Based (3-0-3). Prerequisite SWK 240. Juvenile and adult correctional settings are explored. Study of the modes of organization and management which are applicable to correctional settings, examination of the resources and constraints in current community-based corrections practice as an alternative to incarceration, emphasis on current theory and innovative approaches in various countries.

SWK 342 Prisoners' Rights (3-0-3). Overview of how the legal system deals with persons convicted of a crime or in the custody of correctional facilities, the correctional process itself as it relates to interests of defendants as well as to the interests of society, how correctional authorities mediate between these two interests and to whom they are accountable.

SWK 350 Basic Generalist Practice (3-0-3). Prerequisite to SWK 385. This course is the first of the Intervention sequence, which prepares social work majors for generalist social work practice. It is designed to develop and enhance the students' knowledge, skills and affective development in forming working relationships necessary for generalist social work practice with individuals, families, small groups, organizations, and communities within a diverse society.

SWK 351 Social Work in Community Development (3-0-3). Prerequisite: Junior standing or permission of instructor. Builds knowledge about and awareness of practice with adult community groups, including self-help, social development and advocacy. Issues and policies associated with citizen development, and citizen participation activities - whether at service/program initiation, resource development or structural change levels - are analyzed. The course is aimed at identification and understanding of the problems/issues; the policies at federal, state and local levels; and the range of agencies, programs and autonomous community organizations which have a community-development orientation.

SWK 352 Practice in Health Settings (3-0-3). Prerequisite: Junior standing or permission of instructor. Provides content and experiences which help the student understand the impact of illness on individuals and families and the settings in which health personnel function; knowledge and skills requisite for practice are considered along with issues stemming from current health-care policies and service delivery.

SWK 353 Child Welfare Service (3-0-3). Prerequisite: Junior standing or permission of instructor. The history of child welfare, family problems as they affect child welfare, and issues and alternatives in child-care services; discussion of settings where services are provided, as well as perspectives concerning child welfare as an area of practice.

SWK 354 Mental Health (3-0-3). Prerequisite: Junior standing or permission of instructor. Introduces students to conceptual alternatives in mental health and acquaints them with consequences of these various conceptual approaches, encourages a scientific perspective in the mental-health field, educates students to seek new approaches to practice in the mental health field.

SWK 355 Asian American Experience (4-0-4). This course deals with developing a better understanding of the evolution and settlement patterns, religious and social institutions, and help-seeking patterns of Asian Americans, one of the fastest growing visible minority groups in our society. The course will focus on Indian Americans and Chinese Americans, the two largest Asian American groups in Northeast Ohio. Other Asian groups, such as Filipinos, Japanese, Korean, Vietnamese, and other Southeastern and South Asian communities will also be highlighted, with special emphasis on Asian communities in Northeast Ohio.

SWK 356 AIDS & Intervention (3-0-3). Prerequisite: Junior standing or permission of instructor. Reviews the etiology of the HIV-AIDS virus, populations at risk, policies affecting public education, prevention, and treatment of AIDS. Interventions with persons, significant others/families and program/policy agencies will be identified.

SWK 357 Social Work Values and Ethics (3-0-3). This course focuses on the foundations for ethical reasoning in practice, utilizing social work values, codes of ethics, and philosophic ethics. Case material that includes controversial issues in social work ethics, values and obligations are utilized. The distinction and relationship between practice competence and ethical competence in the profession is examined. Students learn how discipline-specific perspectives and practices interact to shape the ethical and moral issues in practice, and how to identify and respond to ethical issues that arise with diverse populations in a variety of practice settings, including health, mental health, corrections, family and child welfare.

SWK 360 Alcoholism (3-0-3). Prerequisite: Junior standing or permission of instructor. Examination of the disease concept of alcoholism; including prevention, treatment, and recovery of the alcoholic and members of his/her family; considers questions of social policy and strategies and tactics in the field. Other forms of substance addiction are also considered.

SWK 371 Constitutional Criminal Procedure (3-0-3). Prerequisite: SWK 240. Course includes the major constitutional doctrines and issues relating to, and eliminating, criminal investigation (including the securing of physical and oral evidence) and the prosecution of crime. The history and purpose of these constitutional doctrines will be studied to enable students to understand that violations of any of the guarantees of the Bill of Rights must not be viewed as "technicalities," but as attacks on the freedom of all U.S. citizens.

SWK 372 Substance Abuse in Society (3-0-3). Prerequisite: Junior standing or permission of instructor. Course provides a historical perspective regarding the use of mind-altering substances and views the impact(s) of use/abuse on the individual, family, and society. In addition, the course will examine various treatment modalities and the impact on vulnerable groups (such as adolescents, delinquents, elderly, and minorities).

SWK 373 Honors Program in Social Work (4-0-4). The purpose of this didactic, interactive program is to encourage students to develop a closer identification with social work scholars, practitioners and academicians. The Honors Program is designed for social work majors during the junior/senior year of study for an undergraduate degree in social work. In order to qualify for this program social work majors need a 3.50 cumulative GPA in all courses. The successful completion of the requirements for this program with a grade of “B” or better, leads to a graduation with Honors in Social Work.

SWK 374 Law Enforcement in Society (3-0-3). Examination of law enforcement at different levels of society - local, state, federal, and international - with special emphasis upon law enforcement's role and impact upon society and vice versa; includes presentation of law enforcement's purposes, methods, structure, and community interaction.

SWK 375 Criminal Law (3-0-3). Prerequisite: SWK 240. The nature and general provisions of criminal law, interpretation of criminal statutes, elements and parties to crime, defenses to criminal culpability, crimes against persons and property.

SWK 385 Interventions I (4-0-4). Prerequisites: SWK 200, SWK 201, SWK 300, SWK 302, SWK 303, SWK 304, SWK 305, SWK 350; written permission of adviser. Fundamental and basic professional course that allows students to develop, expand, and utilize knowledge of human development and social structure to initiate a framework for social-work practice; uses generalist model which requires development of skills that can be used in various social contexts. First of a two-semester sequence which encompasses a full range of strategies and skills necessary when working with individuals, families, small groups, organizations and communities. Emphasis on an inquiry model of social work practice. A lab experience is required of all students as part of the course. Open to social work majors only. Student must achieve a grade of B or better to continue into SWK 485, SWK 490, and SWK 495. Additionally, SWK 385, SWK 390, and SWK 395 must be taken concurrently.

SWK 390 Field Practicum I (0-16-6). Prerequisite: Written permission of field coordinator. SWK 385, SWK 390, and SWK 395 must be taken concurrently. Placement in a selected community service agency for 16 hours per week provides an opportunity to gain experience in the application of concepts and principles of interventions through actual problem-solving in the human service context. The student is required to demonstrate the integration of skills and a professional attitude in their work with clients and the agency. Continuation onto a second field practicum (SWK 490) and completion of the major are contingent on a grade of B or better.

SWK 395 Field Seminar I (2-0-2). Prerequisite: Written permission of field coordinator. This course is taken concurrently with SWK 385 and SWK 490. Students are expected to synthesize practicum learning with knowledge gained in field experience and other courses. Themes addressed are practicum agency, policies, programs, current issues, and various practice strategies and approaches. Student must achieve a grade of B or better to continue into SWK 485, SWK 490, and SWK 495. A log will be required of each student.

SWK 396 Readings in Social Work (2-0-2). Prerequisites: Written permission of instructor and Director. Readings and assignments in areas of special interest to the Social Work major.

SWK 398 Africa Experience (Zimbabwe) (4-0-4). This course will explore in detail selected social welfare, economic, and cultural issues prevalent in Zimbabwe, with special emphasis given to African University in Old Mutare, Zimbabwe, Africa. Students will have the opportunity to explore and develop a topic of choice. Visitations at community organizations, social welfare agencies, and orphanages will be arranged. Tours to historical sites will be provided to help students comprehend the complexities of Zimbabwe as a country. Activities will introduce students to the nature of social and political issues in the context of Zimbabwe. Study Abroad.

SWK 465 Aging and Social Work (3-0-3). Prerequisite: Junior standing or permission of instructor. Conceptual and methodological perspectives for understanding the basic needs of the aging and the contingencies they face; includes the principles of and strategies for assessing needs, establishing objectives, estimating resources, and determining and evaluating interventions at individual, family, group, and community levels. Opportunity for students to become familiar with programs for the aged, service delivery networks, and strategies for influencing social policy and legislation.

SWK 470 Problems and Issues in Criminal Justice (3-0-3). Prerequisite: SWK 240. Examination of contemporary social issues, including alcoholism, drug addiction, mental illness, poverty, family crisis, nonvictim crime, child abuse, senility, and racism as they intersect the criminal-justice system. Interaction of social issues and criminal behavior is analyzed with the focus on alternatives to arrest and incarceration through the use of community resources. Course expectations assume a background in criminal justice or administration of justice system.

SWK 475 Alternative Health Systems (4-0-4). Prerequisite: Sophomore. This course provides an introduction to the phenomenon of America's interest in alternative and complementary health-care systems. It utilizes an ecological-systems perspective in developing the knowledge base necessary for an understanding of this phenomenon. This course will survey and critique a wide variety of scientific and general literature on this topic from different professional perspectives. The major domains identified by the National Center for Alternative and Complementary Medicine at the National Institute of Health are also discussed in this course. Though newly being discovered in the west, some of these health beliefs are centuries old. Special emphasis will be given to the healing practices of far-eastern countries, such as India. This is a WEB-CT (Internet)-based course. Students are expected to be knowledgeable about working with the Internet.

SWK 485 Interventions II (4-0-4). Prerequisites: SWK 385, SWK 390, SWK 395 and written permission of field coordinator. SWK 485, SWK 490 and SWK 495 must be taken concurrently. Course is designed to give the student an opportunity to study the theory and develop the skills related to small groups and community dynamics. Organizational

dynamics and community services will be the primary focus for this course. Advocacy and various strategies to promote social/organizational change will be considered. Completion of the major is contingent upon a grade of B or better.

SWK 490 Field Practicum II (0-16-6). Prerequisites: SWK 385, SWK 390, SWK 395 and written permission of field coordinator. SWK 483, SWK 490 and SWK 495 must be taken concurrently. Continuation of SWK 390 involving an additional 16 hours per week minimum in community-service agency. Students may not receive field practicum experience for concurrent job experience; however, under exceptional circumstances, the department may agree to a field experience plan that incorporates part of a student's experience into the field practicum. Completion of the major is contingent upon a grade of B or better.

SWK 492 Group Work Practice (3-0-3). Examines the fundamental knowledge and skills required for social work practice with groups across multiple client systems. Knowledge of social work values and ethics is applied as it related to all aspects of group work. Dynamics of working with special populations will be emphasized (e.g. the effects of the addictive processes on group therapy, age-appropriate communication with children.)

SWK 493 Special Topics in Social Welfare (3-0-3). Prerequisite: Permission of Instructor. Study of special topics not regularly appearing in curriculum, including new developments in practice, programs, policy, and fields of service; intensive study of specific problem areas. Course may be repeated for credit not more than three times.

SWK 494 Theories and Procedures in Addiction Studies (3-0-3). This course explores historical perspective of substance abuse in society, models and theories that describe addiction and the effects of addiction on individuals and families, effects of addiction on individuals, techniques and practices that have positive outcomes in treatment and prevention fields, and professional issues facing the addiction field.

SWK 495 Field Seminar II (2-0-2). Prerequisite: Written permission of field coordinator. This is a continuation of SWK 395 and is taken concurrently with SWK 485 and SWK 490. Specific macro practices are addressed and students are expected to be more advanced in their ability to participate in dialogue. Completion of the major is contingent upon a grade of B or better. The log continues to be required.

SWK 496 Independent Study in Social Work (3-0-3). Prerequisites: Written permission of instructor and Director. Individual research or project conducted by Social Work majors.

SWK 497 Independent Study in Criminal Justice (3-0-3). Prerequisites: Written permission of instructor and chairperson. Individual research and projects conducted in the domain of criminal justice.

SWK 499 India Experience: Contemporary Social Issues in India (9-0-9). This course will explore in detail selected social welfare, economic and cultural issues prevalent in India with special emphasis given to Southwestern state of Kerala. The course will focus on such issues as adult literacy, alternate health-care practices, community development and self-sufficiency, the electronic industrialization of rural communities, and the role of women. Students will have pre-departure orientation of an interview of India: social welfare, political, socioeconomic, Malayalam language and other cultural aspects, followed by four weeks of structured learning and intensive analysis of Kerala, involving lectures by local area experts and professors from the University of Kerala, visits and mini-internships to social welfare agencies, educational and health care organizations and rural communities. Students will have an opportunity to stay and interact with university students and their family members. As part of the program, students will participate in reflected discussions, write daily logs, learn to communicate in Malayalam, upload day-to-day experiences into CSU India Experience website, prepare two major papers and give a presentation in front of an invited audience. Study Abroad.

Sociology and Criminology Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: James Chriss, Philip Manning (Chair), Peter Meiksins, William R. Morgan; **Professors Emeriti:** William C. Bailey, Henry M. Barlow, Mareyjoyce Green, Sarah H. Matthews, Hans Nagpaul; **Associate Professors:** Dana L. Hubbard, Stephanie L. Kent, Robert Kleidman, Teresa LaGrange, Wendy Regoeczi, Rongjun Sun; **Assistant Professors:** Miyuki Fukushima.

Course Descriptions

SOC 101 Introduction to Sociology (3-0-3). Introduction to the sociological perspective, forms of social relationships, groups, institutions, and societal organization. Required for majors.

SOC 201 Race, Class and Gender (3-0-3). Survey of major theoretical approaches to race, class and gender; examination of empirical evidence regarding the extent of these kinds of inequality, the ways in which they are produced and reproduced and their consequences. Attempts to overcome the harmful consequences of race, class, and gender inequality, both through the affirmation of identity and difference and through efforts to reduce and/or eliminate these forms of stratification will be reviewed. for

SOC 201H Race, Class and Gender (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course introduces students to major sociological approaches to the study of race, class and gender in contemporary American society. Students will survey the major theoretical approaches to race, class and gender and will examine empirical evidence regarding the extent of these kinds of inequality, the ways in which they are produced and reproduced, and their consequences. Consideration will also be given to the complex interaction among race, class and gender in American society.

SOC 203 Sociology of Poverty (3-0-3). Analysis of the evolution and significance of poverty in the United States, the characteristics of the poor and the experience of poverty, competing explanations for poverty, and evaluation of the impact of social policy on the poor and society as a whole.

SOC 210 Introduction to Sociology of the Third World (3-0-3). Explore the diversity of the Third World by examining the experiences of several specific countries and regions. Will consider the characteristics, problems, and dynamics they have in common. Special attention will be given to the origins of social conflict in the Third World and to the prospects for social change.

SOC 211 American Culture and Society (3-0-3). Prerequisite: SOC 101 or permission of instructor. Analysis of major social systems and dominant themes in contemporary American culture and society.

SOC 215 Black/White Interaction (3-0-3). Patterns of exploitation, survival, conflict, accommodation, and cooperation between white majority and black minority in a changing society.

SOC 250 Introduction to Criminology (3-0-3). This course provides an overview of the field of criminology, including an examination of the causes, types, and distribution of crime in American society. Students are also introduced to the major

components of the criminal justice system. Explores the collection and interpretation of crime data and contemporary issues relating to crime.

SOC 260 Deviance in the United States (3-0-3). An examination of deviant behavior in American society. Topics covered are definitions and theories of deviance as well as various types of deviant behavior, including drug use and alcoholism, mental illness, crime, prostitution and other forms of sexual deviance.

SOC 280H Science, Technology and Society (4-0-4). Prerequisite: Honors standing or permission of university Honors Program. This course uses concepts and methods from the social sciences to explore the relationship between science and technology and society. How do culture and social structure affect the production of scientific and technical knowledge? How do scientific and technological developments affect society?

SOC 302 Women in Corporate America (4-0-4). Prerequisite: Written permission of instructor. Study of life course and mobility patterns of women managers in the private, public and nonprofit employment sector. Students are introduced to action research through participant observation. Each student has an on-site assignment with three female managers. Cross-listed with UST 320.

SOC 305 Urban Sociology (4-0-4). The study of metropolitan development and social life. Examines the role of economic, political, and cultural factors at the global, national, and regional levels. Explores the history of urban sociology and contemporary perspectives. Analyzes the process of social change at the metropolitan level.

SOC 310 Sociology of Marriage and Family (4-0-4). Prerequisite: SOC 101 or permission of instructor. The course focuses on contemporary issues in American family, including mate selection, marital communication, transition to parenthood, parenting, sexuality, extended kin, family disruptions, relationship between work and family, and the effects of changing gender roles.

SOC 311 Individual and Society (4-0-4). Interaction between the individual and society; and examination of the ways in which society impinges upon the individual's behavior, with special emphasis upon socialization, self-concept, attitudes, and social roles.

SOC 312 Sociology of Mental Illness (4-0-4). This course examines three central issues: our changing understanding of mental illness, the variety of approaches for the treatment of mental illness and the impact of social policy on the lives of the mentally ill. By combining historical, medical, and sociological perspectives, this course provides a broad introduction to the study of mental illness. The material is drawn primarily from the United States.

SOC 313 Sociology of Education (4-0-4). Education as socialization; the dual role of the school as change and conservation agent, characteristics of school populations, changing roles of private and parochial education, organization and structure of authority and decision-making processes in public and private schools.

SOC 314 Sociology of Sports (4-0-4). This course focuses on sports as social and cultural phenomena. Students will learn to use sociological concepts and critical thinking to discover how sports affect multiple spheres of our social life. The main focus will be on sports in the United States. Sports in other societies will be explored to help us better understand United States sports through comparison and contrast. Students will be encouraged to reflect on their own experiences as participants and spectators, and to connect these with larger social issues.

SOC 315 Population Problems (4-0-4). Sociological significance of population size, distribution, composition, and density; population and economic development; United States population data in relation to other major countries; programs of family planning; population policies.

SOC 316 Sociology of Aging (4-0-4). Critical analysis of the social status and participation of older persons in modern societies. Included topics such as theories of aging, demography, family ties, economic status, health-care delivery systems and long-term care, dying and death, and the U.S. as an aging society.

SOC 317 Sociology of Gender (4-0-4). Examines the significance of gender differences in the experiences of women and men in social institutions (such as family, education, economic, legal, political), the theoretical perspectives utilized to analyze these differences, and the effects of changing expectations on gender roles and identities.

SOC 318 Sociology of Childhood and Adolescence (4-0-4). Explores the place of children and youth in society by examining conceptions of children that guide adults' expectations of children and social policies, and how age, gender, ethnicity/race, and social class affect the way children are treated by one another and by adults in families, schools, and neighborhoods in Western societies.

SOC 319 Sociology of Religion (4-0-4) The course will present and compare/contrast major sociological theories of religion, examine historical and contemporary patterns of religious belief and participation, and the relationships between religion and other institutions including politics. The empirical focus will include both the contemporary United States and a comparative look at other societies.

SOC 320 Globalization (4-0-4) A comprehensive analysis of globalization including social, cultural, demographic, economic, and environmental issues. Key sociological concepts and theories informing this analysis include the meaning of globalization, the balance between flows and barriers, the roles of transnational corporations and political organizations, cultural differentialism, cultural hybridization, the impact of colonialism, and global inequality.

SOC 335 Drugs, Alcohol, and Crime. (4-0-4). Course examines issues in licit and illicit drug use and alcohol misuse, their relationships to crime, and criminal justice system responses. Includes an overview of the history of drug use and related laws in the U.S., methods of studying alcohol and drugs, theories of drug use, and models in prevention and treatment.

SOC 341 Juvenile Delinquency (4-0-4). Examination of criminal and other forms of youthful misconduct in the context of the place of children and adolescents in American society. Particular emphasis placed upon the causes of various forms of delinquency and community-based prevention and corrective programs.

SOC 342 Sociology of Law (4-0-4). Society and law, foundations of law, legislation and judicial interpretation for regulating behavior, law and social change, the legal profession.

SOC 343 Medical Sociology (4-0-4). The role of social and cultural factors in health, research on the use of health services, the health professions, health-care organizations, and major issues in public policy and health care.

SOC 344 U.S. Criminal Justice Systems (4-0-4). Prerequisite: SOC 250. Course provides an overview of the development and function of the criminal justice system in the United States. Examines theories of justice and punishment; emergence and development of contemporary police and court systems; structure and functioning of corrections; corrections as a form of social control; and the roles of criminal justice personnel, including police, parole, and correctional officers. **SOC 345 Social Control (4-0-4).** Course investigates the meaning of social control, both as a formal and an informal system of constraint. Offers a historical account of the emergence and development of the prison in both Europe and the United States. Considers competing historical accounts of the birth of the prison in addition to exploring contemporary issues concerning surveillance and the use of technology to exercise control over a modern, predominantly urban population.

SOC 346 Corporate and Governmental Deviance (4-0-4). Reviews the extent, types, causes and consequence of crime and deviant behavior both within and by organizations. The focus of the course is on sociological analysis of organizations and crime. Consideration is also given to various policy options designed to deter and/or punish organizational crime.

SOC 347 Sociology of Policing (4-0-4). Examines the roles of police in American society. Includes theories on the function of law enforcement; the history and development of modern police agencies; the structure and functioning of contemporary U.S. policing; and contemporary issues in policing including police discretion, use of force, and diversity. Course emphasizes a sociological understanding of police agencies as social institutions.

SOC 348 Sociology of Corrections (4-0-4). Examines the nature of punishment of criminal offenders in the United States. Major topics include competing perspectives on the goals of punishment; the social world of the prison, including prison subculture and prison violence; the organization of corrections and correctional administration; and the efficacy of imprisonment as a means of reducing crime, including an examination of the death penalty.

SOC 349 Women and Crime (4-0-4). Course provides an overview of issues surrounding women and crime, as offenders, victims, and criminal justice system professionals. Students will analyze changing social views of women and women's roles, and the impact of feminism and affirmative action policies. Topics will include theories on female crime;

the implications of social class and race in female offending; the ways in which women are processed through the criminal justice system; patterns of female victimization; and the roles of women in law enforcement and corrections.

SOC 351 Criminological Theory (4-0-4). Prerequisite: SOC 250 or permission of instructor. Provides an overview and summary of classical and contemporary theories on conforming and deviant behavior. These theories help explain why some forms of behavior are defined as deviance in society, as well as why some members of society are more prone to such forms of behavior. This examination of prevailing theories helps us understand how society defines and creates deviance, and how people become deviant.

SOC 352 Sociological Theory (4-0-4). Prerequisite: SOC 101 or permission of instructor. Study of the work of the most important contributors to the development of sociology as an academic discipline. Required for Sociology majors.

SOC 354 Quantitative Sociological Research (4-0-4). Prerequisite: SOC 101 or permission of instructor. Introduction to the logic of quantitative data analysis, including measures of central tendency and dispersion, measures of association, and tests of significance for appropriate levels of measurement. Required for majors.

SOC 355 Race, Class and Crime (4-0-4). This course is designed to give students a multiracial and multiethnic view of crime and justice policies. Students will learn how race and class intersect with crime, criminological theories, and criminal justice policies. Students will understand the trends and patterns of crime associated with people of color and those living in poverty.

SOC 356 Database Management for Social Research (4-0-4). Prerequisite: SOC 354 or equivalent, or permission of instructor. Develop skills to access and manipulate machine-readable data files for social-science research, such as data from the U.S. Census Bureau and the General Social Survey. The course is a combination of lecture and lab with students learning by doing.

SOC 360 Sociology of Interpersonal Violence (4-0-4) A sociological examination of the topic of criminal violence, including approaches to and methods for studying violence, explanations of violent behavior, violence across different historical time periods and places, the social construction of violence, and violence prevention. Considers specific subtypes of violence and their control, such as robbery, sexual assault, intimate partner homicide, and serial killing.

SOC 380 Racial and Ethnic Inequality (4-0-4). Prerequisite: SOC 101 or permission of instructor. Historical antecedents and cross-societal comparisons of patterns of dominant and subordinate groupings based upon ethnic, cultural, and racial differentiations; patterns of interaction within and among these groups with special attention to prejudice and discrimination.

SOC 382 African American Communities (4-0-4). Analysis of the changing status of African American communities and their relationship to the class, status, and power structure of the larger community.

SOC 383 Political Sociology (4-0-4). Analysis of the nature, distribution, and effects of power in contemporary society. Study of the relationship between political, economic, and cultural institutions and power. Exploration of topics including the state, political parties, voting, and collective behavior and social movements.

SOC 388 Sociology of Work and Organization (4-0-4). Introduction to the sociology of work in contemporary society. Analysis of the meaning of work for men and women and of the different experiences of work in specific occupations. Topics covered include the organization of the workplace, the relationship between work and family, work and gender, and the effects of social policy on workers and employers.

SOC 389 Sociology of Non-Western Societies (4-0-4). An analysis of social behavior and organization in the emergent institutions of new nations outside the western hemisphere, as rooted in indigenous, colonial, and eastern cultural forms. Institutions to be examined include family, education, work, and religion, utilizing modernization and social conflict perspectives on societal change. Region to be studied will be listed in the semester course schedule.

SOC 390 Service Learning in Sociology and Criminology (4 to 8 credits). Prerequisites: Major or minor in Sociology, junior or senior standing, and 3.0 average in Sociology or Criminology. Exceptions with permission of department chairperson. Students will combine meaningful work at a public or private non-profit agency or organization that meets identified community needs, with sociological reflection and learning. In weekly seminar meetings, students will discuss

their work and will learn about social, economic, and political dynamics of northeast Ohio, the range of approaches taken by community agencies to solving community problems, and related topics.

SOC 393 Special Topics in Sociology (4-0-4). Important current trends in sociology. Topics will be announced. May be taken twice for different topics, with departmental permission.

SOC 394 Special Topics in Criminology (4-0-4). Important current trends in criminology. Topics will be announced. May be taken twice for different topics, with departmental permission. Course counts as an elective for the Criminal Justice minor.

SOC 400 Capstone Course in Sociology and Criminology (4-0-4). Prerequisites: Sociology Majors: SOC 101, SOC 201, SOC 352, SOC 354 and senior standing; Criminology Majors: SOC 101, SOC 201, SOC 250, SOC 344, SOC 351, SOC 354 and senior standing. This course uses the explication of research methods to provide a capstone experience to Sociology and Criminology majors. Students integrate and extend knowledge and skills gained through previous courses to deepen their understanding of how social science knowledge is produced by writing a research paper/proposal. Required for majors.

SOC 455 Ethnographic Research Methods (4-0-4). Prerequisites: Major or minor in Sociology, completion of required core courses for major or minor, junior or senior standing, and 3.0 average in Sociology. Exceptions with permission of instructor. Collecting, analyzing, and writing research reports based on qualitative data (field notes, transcripts of intensive interviews, and archives) about an organization or setting. Ethical obligations to host organizations and to the research community. Simultaneous enrollment in SOC 490 advised.

SOC 490 Sociology Internship (4-0-4). Prerequisites: A major in Sociology, completion of required courses for major or minor, junior or senior standing, and 3.0 average in the major. Permission of Internship Coordinator required. Written application must be submitted to the Internship Coordinator no later than six weeks before the start of the semester during which the student will be enrolled in the Internship. Course consists of field placement in public or private non-profit agencies that combine work experience, typically unpaid, with academic research and analysis. Requires a minimum of 10 hours per week on-site at the internship agency. Work expectations for each intern are contracted with instructor and placement supervisor. Regular meetings with instructor, weekly submission of work logs, readings as assigned, and final paper required. May be repeated for up to 8 credit hours.

SOC 491 Criminology Internship (4-0-4). A major in Criminology or Sociology or minor in Criminal Justice, completion of required courses for major or minor, junior or senior standing, and 3.0 average in the major. Permission of Internship Coordinator required. Written application must be submitted to the Internship Coordinator no later than six weeks before the start of the semester during which the student will be enrolled in the Internship. Course consists of field placement in criminology related and criminal justice settings that provide firsthand experience and knowledge of careers in the area, including probation, parole, policing, juvenile and adult court systems, corrections and treatment programs. Requires a minimum of 10 hours per week on-site at the internship agency. Work expectations for each intern are contracted with instructor and placement supervisor. Regular meetings with instructor, weekly submission of daily internship logs, readings as assigned and final paper required. May be repeated for up to 8 credit hours.

SOC 496 Independent Readings in Sociology (1 to 4 credits). Prerequisites: Senior standing, major in sociology and instructor's permission. Faculty-supervised and directed selected readings in areas of special interest to the student. May be repeated for credit for a maximum of 8 credit hours.

Spanish Courses

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Faculty

Professor: Tama Lea Engelking (Chairperson); **Associate Professors:** Delia V. Galván, Antonio Medina-Rivera, Lee Wilberschied, Stephen Gingerich; **Assistant Professors:** Hebat El-Attar,.

Course Descriptions

Additional courses in linguistics, literature, and civilization which have no prerequisites are listed under English Translations of Foreign Literatures, French, German, and Modern Languages.

Students with native experience of Spanish may not enroll for credit in the 100-level courses in Spanish. See the information concerning language-skill courses in the Spanish program section.

A veces los requisitos no son exigidos a los hispanohablantes. Conviene que éstos consulten con un consejero de la Sección de Español antes de matricularse.

All students with training or experience in Spanish other than a previous course in that language at Cleveland State should continue their study in accordance with their background. Failure to seek counseling may result in schedule shifts during the first week of class.

All language courses have the following divisions and courses numbered from:

100-114 (200-214, etc.) concern the development of performance skills;

115-34 (215-234, etc.), the nature of language;

135-64 (235-264, etc.), culture and civilization;

165-89 (265-289, etc.), literature;

190-99 (290-299, etc.), independent and specialized courses.

SPN 100-200-300-400 Practicum in Spanish (1-6 Credits). Prerequisites: Permission of instructor, departmental approval. This course involves specially arranged projects or supervised experiences for non-native speakers in Spanish conducted in the university and in the community. Examples include special work in the Instructional Media Services laboratory. Or participation in a Spanish-language play, and a study or service project involving fieldwork in one of the Spanish communities. Projects arranged between individual students and instructors; title of the project will appear on the student's transcript. The course is available on S/U basis only. It may be repeated for credit with change of topic.

SPN 101 102 Spanish Language Skills I, II (4-2-5). Prerequisites: SPN 101: No prerequisite; SPN 102: SPN 101 or the equivalent course with C or better. This course involves the development of proficiency in speaking, understanding, reading, and writing Spanish with contextual cultural information. It includes a lab fee.

SPN 111 Spanish First Year Review (4-2-5). Prerequisites: SPN 102 or two years of high-school Spanish. The course involves the increasing mastery of the basic skills of speaking, listening, reading, and writing. It also includes basic grammar review and enrichment.

SPN 192 292-392-492 Special Topics: Study Abroad (1 to 6 Credits). Prerequisites: SPN 192: No prerequisite; SPN 292: SPN 201; SPN 392: SPN 301; SPN 492: SPN 301 and one literature or civilization course. This is the study of a particular topic in Spanish language, literature, or civilization as part of the university's Study Abroad Program. It may be repeated with change of topic.

SPN 196 296-396-496 Independent Study in Spanish (1 to 6 Credits). Prerequisite: Student must have sophomore, junior, or senior standing. Proposed projects must be approved by a full-time department faculty member (who will serve as the project adviser) and the department chairman. The course is comprised of student-initiated supervised projects involving Spanish language or literature, such as in-depth study of a particular writer, or special readings in linguistics. Independent study may be used to cover the materials of a listed course not offered in a given year. Projects are arranged between individual students and instructor; title of project will appear on the student's transcript. It may be repeated for credit with change of topic.

General Prerequisites

SPN 201 and SPN 202 are prerequisites for all major courses. The student's adviser, in consultation with the instructor concerned, may grant exceptions. These courses offer content area study and further practice in conversation and composition at the intermediate level and are appropriate for both majors and non-majors.

SPN 201 Intermediate Spanish (4-0-4). Prerequisite: Completion of SPN 102 with C or better or equivalent. This course is comprised of readings in U.S. and Hispanic culture and practice in conversation and composition. It includes refinement and expansion of grammar capabilities and activities. SPN 201 may be taken before or after SPN 202 or SPN 203.

SPN 202 Literature Survey (4-0-4). Prerequisite: Completion of SPN 102 with C or better or equivalent Reading strategies and a variety of short literary pieces, activities, and writings help develop the student's ability and background in Hispanic literature. The course includes practice and expansion of grammar, skills development and writing proficiency. SPN 202 may be taken before or after SPN 201 or SPN 203.

SPN 203 Culture and Civilization (4-0-4). Prerequisite: Completion of SPN 102 with C or better or equivalent. Readings explore both U.S. and Hispanic customs, attitudes, and values. It also includes ongoing review and expansion of skills development. SPN 203 may be taken before or after SPN 202 or SPN 201.

SPN 205 Intermediate Spanish Studies (4-0-4). Prerequisite: Completion of SPN 102 with C or better or equivalent. This course involves intermediate-level work on various topics as specified in the course catalog. Topics may address concerns of contemporary society or be specific to professions or areas of study. Grammar and skill development are appropriate to the topic. Sample topics are Spanish for social services, for business, or for the medical professions. Not to be used for Spanish major credit.

SPN 207 Intermediate Commercial Spanish (4-0-4). Prerequisite: Completion of SPN 102 with C or better or equivalent or permission of instructor. This is an introduction to the world of business and technology in Spanish speaking countries. It covers socio-economic issues that affect business; everyday commercial activities, such as job interviews, on-the-job routines, and banking. It includes continued development of language skills appropriate to the course topic and level.

SPN 240 340, 440 Field Study (1 to 6 credits). Prerequisite: Permission of instructor. This is study abroad in a Western hemisphere Spanish-speaking country such as Mexico, under the auspices of Cleveland State Spanish Section faculty. Program and course content vary annually. Consult an adviser in Spanish for current information.

SPN 241 341, 441 Spanish Field Study (1 to 6 credits). Prerequisite: Permission of instructor. This course is study abroad in Spain under the auspices of Cleveland State Spanish Section faculty. Program and course content vary annually. Consult an adviser in Spanish for current information.

SPN 245 Hispanic Resources of Cleveland (3-0-3). This is field experience with aspects of the Spanish-speaking community in the Cleveland area. It includes informal conversation practice.

SPN 293 393-493 Special Topics in Spanish (1 to 4 credits). Prerequisites: SPN 193: No prerequisite; SPN 293: Completion of SPN 102 with a C or better or permission of instructor; SPN 393: SPN 301; SPN 493: SPN 301 and one literature or civilization course. This is the intensive study of a particular topic in Spanish language, literature, or civilization. It may be repeated for credit with change of topic. Some topics are offered as Linguistic Studies courses.

SPN 301 Advanced Spanish: Oral Skills Emphasis (4-0-4). Prerequisites: SPN 302 or two of the following: SPN 201, 202, 203 or the equivalent, and sophomore standing, or permission of the instructor. This course involves advanced conversation and composition; improvement of all language skills and knowledge of grammar, with special emphasis on development of oral skills.

SPN 302 Advanced Spanish: Writing Skills Emphasis (4-0-4). Prerequisites: SPN 301, or SPN 202 and either SPN 201 or 203 or the equivalent, and sophomore standing, or permission of the instructor. This course is advanced conversation and composition; improvement of all language skills and knowledge of grammar, with special emphasis on development of writing skills.

SPN 303 Advanced Composition and Conversation for Native Speakers (4-0-4). Prerequisite: Native speaker of Spanish or permission of instructor. The course involves practice in composition and conversation based on short literary or cultural reading. Emphasis is placed on development of skills particular to scholastic work, such as summaries, reports, and projects.

SPN 315 Introduction to Spanish Linguistics (4-1-4). Prerequisites: Two from SPN 201, SPN 202, SPN 203 and sophomore standing, or permission of instructor. This course covers the physiology and articulation of Spanish sounds, application of contrastive phonology to the teaching of Spanish, and intensive pronunciation drill in the Instructional Media Services laboratory. It is required for majors and students seeking teaching licensure in Spanish. This is a Linguistics Studies course.

SPN 345 Spanish Civilization (4-0-4). Prerequisites: Two from SPN 201, SPN 202, SPN 203 and sophomore standing, or permission of instructor. This course covers the historical interpretation of Spain through the study of geography, religion, sociology, and the arts of the Iberian Peninsula.

SPN 346 Latin American Civilization (4-0-4). Prerequisites: Two from SPN 201, SPN 202, SPN 203 and sophomore standing, or permission of instructor. This is an introduction to the historical, political, sociological, cultural, and artistic development of Latin America.

SPN 365 Readings in Hispanic Literature (4-0-4). Prerequisites: Any two courses on the 200 level. This course may be taught concurrently with ENF courses, but students read additional selections in Spanish and are expected to react to them in Spanish both orally and in writing. It may be repeated for credit with change of topic.

SPN 371 Introduction to Spanish Literature (4-0-4). Prerequisites: SPN 202 and either SPN 201 or SPN 203 and sophomore standing, or permission of instructor. This is an introduction to the study of Spanish literature, with concentration on principal authors and their works from the Middle Ages to the present.

SPN 372 Introduction to Spanish American Literature (4-0-4). Prerequisites: SPN 202 and either SPN 201 or SPN 203 and sophomore standing, or permission of instructor. This is an introduction to the study of Spanish-American literature with concentration on principal authors and their works from the colonial period to the present.

SPN 374 Readings in Hispanic Literature (3-0-3). Prerequisites: Any two courses at the 200 level and sophomore standing, or permission of instructor. The course may be taught concurrently with ENF courses, but students read additional selections in Spanish and are expected to react to them in Spanish both orally and in writing. It may be repeated for credit with change of topic.

SPN 402 Advanced Grammar and Stylistics (3-0-3). Prerequisite: Either SPN 301, SPN 302, or SPN 203, or permission of instructor. This course focuses attention to the fine points of grammar in Spanish with an emphasis on the development of oral and written expression reflecting Spanish language patterns.

SPN 416 Studies in Spanish Linguistics (3-0-3). Prerequisites: SPN 315 and sophomore standing, or permission of instructor. This is an analysis of aspects of Spanish grammar or usage from the perspective of modern linguistics. It may be repeated for credit with a change of topic. This is a Linguistics Studies course.

SPN 417 History of Spanish (3-0-3). Prerequisites: SPN 315 and sophomore standing, or permission of instructor. This course is a survey of the development of the Spanish language from Roman times to the present day. This is a Linguistics Studies course.

SPN 445 Studies in Spanish Civilization (3-0-3). Prerequisites: SPN 345 or SPN 346 and sophomore standing, or permission of instructor. This course is the study of the civilization or culture of a particular period or topic, such as "20th-Century Politics in Context," or "Civil War in Film and Art." Topics will be announced. It may be repeated for credit with a change of topic.

SPN 446 Studies in Spanish American Civilization (3-0-3). Prerequisites: SPN 345 or SPN 346 and sophomore standing, or permission of instructor. This is a study of the civilization or culture of a particular period or topic, such as "Colonial Culture," "Caudillismo," "Art in the Caribbean," or "Writers of Spanish America." Topics will be announced. It may be repeated for credit with a change of topic.

SPN 483 Studies in Spanish Literature (3-0-3). Prerequisites: SPN 371 or SPN 372 and sophomore standing, or permission of instructor. This is a study of a particular period, author, or theme, such as "The Picaresque Novel," "The Generation of 98," "Galdos," "García Lorca," "Dynamic Women in Drama." Topics will be announced in course schedules. It may be repeated for credit with change of topic.

SPN 484 Studies in Spanish American Literature (3-0-3). Prerequisites: SPN 371 or SPN 372 and sophomore standing, or permission of instructor. This course is the study of a particular period, author or theme, such as "Romanticism," "Modernism," "Darío," "García Márquez," "Magic Realism." Topics will be announced. It may be repeated for credit with change of topic.

SPN 491H Senior Honors Project (3-0-3). Prerequisite: Spanish major with Honors standing. Project must be preapproved by project adviser who is a full-time faculty member, department chair, and department curriculum committee. This is an independent research project developed in cooperation with faculty adviser. Completed projects will be submitted in written form and presented orally in a public forum.

SPN 494 Spanish Capstone (4-0-4). Open to students who have completed a minimum of two courses in Spanish at the 400-level, or by permission of instructor. Course focuses on building analytical, research, oral communication, and writing skills in Spanish on topics related to the Spanish language and Hispanic literatures and cultures. Topics vary. This course satisfies the capstone requirement for Spanish majors.

SPN 495 Spanish Field Study Capstone (4-0-4). Open to students who have completed a minimum of three 300-level courses in Spanish and who are participating in one of the faculty-led summer study abroad programs. The course focuses on an individual research project completed under the supervision of the study abroad director. Topics require research and field work in the study abroad site, and the completion of the project develops analytic, research, writing, and oral communication skills in Spanish. It satisfies the capstone requirement for Spanish majors.

The Department of Modern Languages offers a Master of Arts degree in Spanish. Please see the graduate catalog for a description of the degree program. The SPN 500- to 600-series of courses may also be taken as part of the Master of Education degree program in Curriculum and Instruction.

SPN 501 Research Methods (2 to 4 credits).

SPN 502 Advanced Grammar and Stylistics (4-0-4).

SPN 534 Studies in Language and Linguistics (4-0-4).

SPN 540 Field Experience Abroad (2 to 4 credits).

SPN 545 Studies in Spanish Civilization (4-0-4).

SPN 546 Studies in Spanish American Civilization (4-0-4).

SPN 564 Studies in Culture and Civilization (4-0-4).

SPN 583 Studies in Spanish Literature (4-0-4).

SPN 584 Studies in Spanish American Literature (4-0-4).

SPN 589 Studies in Literature (4-0-4).

SPN 592 Special Topics: Study Abroad (1 to 6 credits).

SPN 596 Independent Study (1 to 8 credits).

SPN 616 Seminar in Spanish Language (4-0-4).

SPN 631 Teaching College Spanish (1 to 8 credits).

SPN 665 Seminar in Hispanic Culture (4-0-4).

SPN 685 Seminar in Spanish Literature (4-0-4).

SPN 686 Seminar in Latin American Literature (4-0-4).

SPN 696 Independent Study (1 to 8 credits).

Speech and Hearing Courses

On this page:

- Faculty
- Course Descriptions
- To Speech & Hearing Major
- Back to Course Index

Faculty

Link to Program Personnel
Link to Profiles of Full-time Health Sciences Department Faculty

Professors Emeriti: Eric Sander, Arthur H. Schwartz; **Associate Professor:** Monica Gordon Pershey; Amee Shah; **Assistant Professor:** Barbara Prakup; **Term Instructor**: Violet Cox; **Clinic Administrator & Adjunct Faculty:** Taya Neuman; **Clinical Coordinators & Adjunct Faculty:** Sue Ann Neff, Myrita Y. Wilhite, Therese S. Lynch.

Course Descriptions

SPH 131 Voice and Diction (3-0-3). Improvement of voice, articulation, and pronunciation through analysis of each student's speech; study of the structure and functioning of the speech mechanism; directed drills and practice.

SPH 228 Phonetics (3-0-3). Introductory course dealing with the principles of American English sounds, transcription of dialects spoken in the United States, and the use of International Phonetic Alphabet. Linguistics Studies course.

SPH 229 Speech and Language Development (3-0-3). Phonological, grammatical, and semantic development in the normal child. This is a course for non-majors. SPH majors should enroll in SPH 349. Linguistics Studies course.

SPH 231 Introduction to Communication Disorders (3-0-3). Survey of problems in speech, language, and hearing, and their effects on communication.

SPH 232 Introduction to Audiology (3-0-3). Principles of psychoacoustics and of aural anatomy, physiology, and pathology; evaluation of hearing function; social and educational consequences of hearing impairment.

SPH 241 Survey of Deaf Culture (4-0-4). This course, a study of Deaf culture and cross-cultural interactions, will address the origins of American Sign Language (ASL), the methods of communication used by those who are Deaf and Deaf/Blind, and the role of interpreters in the Deaf Community. It will also examine how persons who are Deaf navigate their world through shared customs, language, technology, attitudes, values, and more.

SPH 251 American Sign Language I (4-0-4). Introduction to basic receptive and expressive skills utilizing fingerspelling, facial expression, body language, gestures, and signs in ASL structure. Particular emphasis will be placed on principles and techniques for communicating with hearing-impaired individuals as well as signs across cultures and geographical areas.

SPH 252 American Sign Language II (4-0-4). Prerequisite: SPH 251 or permission of instructor. Development of ASL skills utilizing idioms, humor, and expression, with special focus on conversational signs; culture of deaf people in the U.S.; problem situations, ethical issues and responsibilities of interpreting will be addressed; experience with communicating with deaf individuals via guest speakers and out-of-class assignments to various local deaf organizations.

SPH 331 Psychology of Speech and Hearing (3-0-3). Introduction to psychological bases of the speech and hearing processes, consideration of psychological factors in speech and hearing problems.

SPH 335 Clinical Methods in Communication Disorders (3-0-3). Prerequisites: SPH 228, SPH 229, SPH 231. Procedures for defining, observing, and recording behavior; planning intervention objectives; managing behaviors; writing reports; and utilizing materials and equipment.

SPH 349 Speech and Language Development for Majors (3-0-3). Exploration of phonological, semantic, syntactic, and pragmatic language development in typically developing children. Enrollment is limited to Speech and Hearing majors.

SPH 351 Anatomy and Physiology of the Speech and Hearing Mechanism (3-0-3). Description of the anatomy of the speech and hearing mechanism with particular emphasis on its function as it serves the speech and hearing process.

SPH 353 American Sign Language III - Intermediate Level (4-0-4). Prerequisites: SPH 251 and SPH 252. Course focuses on ASL Signs, body language, and facial expressions with emphasis on more complex conversation situations. Practice at advanced beginner level. Study of fingerspelling.

SPH 431 Basic Speech-Language Disorders (4-0-4). Prerequisite: SPH 229 or SPH 349. The nature, characteristics, and clinical management of speech disorders (articulation, voice, and fluency) and language disorders in children and adults.

SPH 434 Clinical Practicum in Speech-Language Pathology (1 credit). Prerequisite: SPH 335. Supervised clinical practice with clients who have speech disorders. May be repeated for a maximum of five credit hours.

SPH 435 Organization and Administration of a Public School Speech and Hearing Program (3-0-3). Prerequisite: SPH 335. Study of various aspects of instituting and maintaining a public-school speech-and-hearing program; special emphasis on remedial reading and learning disabilities, scheduling problems, screening and case selection, group therapy, and parent and child counseling.

SPH 438 Dialect Differences in the Schools (2-0-2). Study of certain aspects of urban language patterns with special attention to linguistic features of those persons described as culturally different; investigation and discussion of literature on oral language variations as related to listener attitudes, social and economic consequences, school success, and questions concerning approaches to the problem of speech and language specialists; analysis and evaluation of language samples. Linguistics Studies course.

SPH 481 Aural Rehabilitation (3-0-3). Prerequisite: SPH 232. Principles, history, and methods of teaching those with hearing impairments to integrate visual and auditory cues in the comprehension of the spoken language.

SPH 482 Audiometry (3-0-3). Prerequisite: SPH 232. Principles of air-conduction calibration, clinical procedures in pure tone audiometry impedance measurements, masking, speech audiometry, and report writing.

SPH 485 Speech and Hearing Science (3-0-3). Introduction to the study, analysis, and measurement of components and processes involved in production and reception of sound. Linguistics Studies course.

SPH 486 Clinical Practicum in Audiology (1 credit). Prerequisites: SPH 335, SPH 482. Supervised clinical practice with clients who have hearing disorders. May be repeated for a maximum of five credit hours.

SPH 489 Aural Rehabilitation Practicum (1 credit). Prerequisites: SPH 335, SPH 481. Supervised experience in the evaluation and treatment of communication disorders related to hearing loss. May be repeated for a maximum of four credit hours.

SPH 495 Speech Seminar (1 to 6 credits). Prerequisite: Permission of instructor. Course may entail a special topic seminar, a directed study, or a student-faculty collaborative project. May be repeated for credit for a total of 6 credit hours.
SPH 497 Senior Capstone Portfolio (1 credit). Prerequisites: Senior Standing and Speech and Hearing major. Student will create a portfolio in core areas of speech-language pathology.

Theatre Courses

On this page:

- Faculty
- Course Descriptions
- To Dramatic Arts Major
- Back to Course Index

Faculty

Link to Program Personnel

Associate Professors: Michael L. Mauldin (Chair); **Assistant Professor:** Holly Holsinger; **Faculty Designer:** Russ Borski.; **Adjunct Faculty:** Lisa Bernd, Ph.D., Allan Byrne, Michael Gatto, Scott Spence; **Teaching Staff:** Aaron Benson, Teresa A. Pieritz; **Professors Emeriti:** Joseph J. Garry, Jr., Reuben Silver.

Course Descriptions

THE 101 Production Practicum (0-6-2). This course is a laboratory experience through work on university theatre productions in performance, technical work, or business participation. It may be taken four times for credit; and may be repeated thereafter without credit.

THE 111 Theatre Appreciation (4-0-4). This is a survey of the elements of dramatic/theatric communication. It is intended to develop understanding and enjoyment of the theatre in all of its forms. It includes lectures, readings, and demonstrations.

THE 200 Introduction to Technical Theatre (4-0-4). This is a survey of the basic techniques and practices in technical theatre and production, including stage management, pre-production, the rehearsal period, technical rehearsals, load-ins, and calling the show. Building a prompt script with all detailed paperwork will be emphasized. It is a prerequisite to all other technical theatre courses.

THE 201 Script Analysis (3-0-3). This course familiarizes the student with traditional and contemporary approaches to analyzing dramatic texts from performance, directorial, and design perspectives. Classic and contemporary texts are analyzed using traditional Aristotelian approaches, as well as Feminist, Marxist, Deconstructionist, and post-Modern frames. Emphasis is placed on creating a personalized and artistically grounded interpretation for theatrical production.

THE 211 History of the Theatre I (3-0-3). This is a survey of dramatic and theatrical developments from their ritual beginning through the theatres of the Greek, Roman, Medieval, and Italian and Spanish Renaissances, French Neoclassic and Elizabethan periods. It focuses on the physical theatres, production techniques, and dramatic literature and conventions.

THE 212 History of the Theatre II (3-0-3). A Survey of dramatic and theatrical development from Elizabethan and Jacobea, Italian and French Neoclassicism, Restoration and 18th Century Comedy.

THE 213 History of the Theatre III (3-0-3). This course traces the rise of Realism and Naturalism, "Modern" theatre, Symbolism, Expressionism, Dada, Futurism, and Epic to the beginnings of contemporary theatre.

THE 216 African American Theatre (3-0-3). This course concentrates on canonical historical and contemporary African American playwrights (August Wilson, Lorraine Hansberry, Amiri Baraka) and their impact on American theater and culture. .

THE 225 Principles of Acting for Television, Film, and the Stage (4-0-4). This is the study of the actor's vocal, physical, and psychological resources, including an introduction to the mechanics of stage movement; exercises in sensory, imaginative, emotional, and pantomimic responsiveness; fundamentals of characterization; and attendance at productions.

THE 300 Stage Management (3-0-3). This is the study of the special problems and considerations of stage management in and out of rehearsal. Special emphasis is placed on prompt-books, scheduling and coordination functions of a working stage manager as well as performance functions such as calling a show.

THE 301 Lighting Design (3-0-3). Prerequisite: THE 200. This is an introductory course in the basic elements of stage lighting design. Study includes principles, theories, equipment and use of lighting as applied to today's modern professional theatre.

THE 311 Drama and Film (4-0-4). Prerequisite: THE 111, COM 221, or permission of instructor. This is a detailed study of ten major plays which have been adapted into major films, including the study of differences in stage and film presentations with emphasis on structure, acting styles, and directing techniques.

THE 317 Society and Minority Theatre (3-0-3). "Society & Minority Theatre" is predicated on the notion that the American melting pot has failed in its original intent: E Pluribus Unum ("Out of Many, One"). Instead, the U.S. may be described in reverse: "In One, Many"- so visible and vocal are the nation's sub-groups. Their rise to prominence has been so vigorous and occasionally so strident that it is often described as a revolution. Blacks, Gays, Women, Hispanics, Native Americans, Asians, Handicapped, Aged, et al., theatre artists have chronicled these social eruptions, and their works illuminate these historical and social developments with insight and passion. Through the playwright's lens, we can gain insight and understanding into both the arts of the theatre and significant contemporary social manifestations.

THE 318 African American Theatre II (3-0-3). This course examines the innovative contributions of historical and contemporary African American playwrights, choreographers, and performance artists to American drama, theater, and performance. . .

THE 319 Nonwestern Culture: Theatre of the East (3-0-3). This is a survey of non-Western theatre forms, exploring the classic theatre of India, Japan, China, and Indonesia. The course includes lectures on and films of Kabuki, Chinese Opera and other Asian productions as well as hands-on experience with Indian, Indonesian, Japanese and Chinese puppets.

THE 321 Contemporary Drama (4-0-4). Prerequisite: THE 111 or permission of instructor. This is a survey of dramatic literature post- World War II to the present with emphasis on new trends in the theatre; lectures, readings, and demonstrations; and where possible, attendance at productions.

THE 325 Intermediate Acting (4-0-4). Prerequisite: THE 225. This is the study of and experimentation with theories of characterization and role preparation, including the study of voice and movement.

THE 326 Voice and Movement (4-0-4). This is the study of conventional, period, and abstract stage movement in association with a study of voice improvement and standards used in various styles of theatre.

THE 331 Principles of Directing (4-0-4). Prerequisite: THE 225. This is the study of various conceptualizations of the director's role; fundamental consideration of play analysis, rehearsal and production procedures, and essentials of directing techniques.

THE 332 Advanced Directing (4-0-4). Prerequisite: THE 331. This course includes a detailed study of directing theories and techniques, applications to scenes directed in class, and in-class analysis and criticism.

THE 351 Theatre Makeup (3-0-3). This is the study and practice in the art and science of the use of theatrical makeup for the legitimate stage, film, and television.

THE 352 Creative Dramatics (3-0-3). This course covers the theories and methods of developing the creative capacities through original dramatization, freeing the imagination to create plays spontaneously or from literature; it involves practice in workshop. It is a valuable course for majors in Elementary Education.

THE 353 Children's Theatre (3-0-3). This course is the study of theory and methods of producing plays for children, scriptwriting analysis and adaptation, and rehearsal and production procedures.

THE 354 Puppet Production (3-0-3). This course is a study of various types of puppetry, construction, and design methods, including manipulation, scripting and producing.

THE 371 Scene Design I (4-0-4). This course is a study of research methods for theatre design, including the compilation of a reference file, the drafting techniques used to produce working drawings for scenic construction, and perspective drawing and rendering techniques used in set design.

THE 372 Scene Design II (4-0-4). This is a study of the design of the single-set play and the design of the multiset play.

THE 381 Theatre Organization and Management (4-0-4). Prerequisite: THE 111. This is the study of organizational patterns and management theories and practices in educational, community, and professional theatre; including organization of personnel; publicity/promotion; fiscal operations; and familiarization with theatre unions and contracts.

THE 391 Costume History and Design (3-0-3). This is the study of period, fashions, research, presentation, and design techniques.

THE 425 Advanced Acting (4-0-4). Prerequisite: THE 325. This is the study of acting styles and the performance characteristics of serious drama, comedy, melodrama, and farce; including the experimental approaches to contemporary acting theories and techniques; and emphasis on performance and audition.

THE 451 Theatre Criticism (4-0-4). Prerequisite: THE 111. This study involves the examination of major historical theories in the criticism and evaluation of drama and theatre; and study of contemporary approaches to criticism.

THE 461 Playwriting (4-0-4). Prerequisite: Permission of instructor. This is the study of materials and forms pertinent to the creation of play scripts; methods of encoding dramatic information; and exposure to theoretical writings of playwrights. It involves lectures, discussions, and practice in writing scenes and short plays for class analysis and criticism.

THE 490 Professional Theatre Internship (4-16 credits). Prerequisite: Senior standing or permission of instructor. Majors are assigned to an internship at a professional theatre in tech, design, performance, or administrative areas. Approval of Cleveland State University Dramatic Arts faculty and professional theatre staff required. Syllabi will be created to meet specific demands.

THE 491 Comprehensive Exam (4-0-4). This is required of all graduating senior Drama majors, this course is a term long final preparation for the career centered on comprehensive oral examination by the faculty.**THE 494 Studio Production Lab (1-4 credits).** Prerequisite: permission of instructor. Participant will produce an original script at the Theatre Arts facility with the support of the Theatre Arts Area. Credit will be given for playwriting, directing, stage management, acting, design, and technical work. Credit hours will be assigned by instructor for each production according to the need. (It may be repeated for a maximum of 8 credit hours.)

THE 495 Drama Seminar (4-0-4). Prerequisite: Senior standing or permission of instructor. This is an in-depth study of selected topics in drama and theatre; it may involve either group work or individual research.

THE 496 Independent Study (1-12 variable credits). Prerequisite: Senior standing or permission of instructor and director. This course involves the individual study and research of a topic of interest to the student.

Urban Studies Courses

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Faculty

Link to Department Personnel
Link to Profiles of Full-time Faculty

Professors: William Bowen, Jeffrey L. Brudney (Levin Chair), Edward Hill (Dean), Miron Kaufman, Sanda Kaufman (Director, M.A. in Environmental Studies Program), W. Dennis Keating (Director, MUPDD Program), Wendy Kellogg, (Associate Dean and Department Chair), Norman Krumholz, Helen Liggett, Robert A. Simons, Michael Spicer, Roberta Steinbacher (Director, Undergraduate Programs); **Professors Emeriti:** Lawrence Keller, Larry Ledebur, Sylvester Murray, Camilla Stivers, Michael Tevesz; **Associate Professors:** Jennifer Alexander (Director, MNAL and MPA Programs), Mittie Davis Jones, Nancy Meyer-Emerick, Brian A. Mikelbank, Heidi Gorovitz Robertson (Director, JD/MA in Environmental Studies Program), Vera Vogelsang-Coombs, Alan Weinstein (Director, JD/MPA and JD/MUPDD Programs); **Associate Professor Emeritus:** Michael Wells; **Assistant Professors:** Benjamin Clark, Ronnie Dunn, Joel Elvery, Sung-Gheel Jang, Christine Rush, Sugie Lee (Director, MS in Urban Studies Program), Haifeng Qian, Stephanie Ryberg, Nicholas Zingale.

Course Descriptions

UST 102 Professional Writing (3-0-3). Prerequisite: ENG 100 or ENG 101. Continued development of writing skills acquired in ENG 100 or ENG 101, incorporating research and information literacy skills. Students research urban issues in the Cleveland area and develop skills in writing expository and argumentative prose in order to communicate research results effectively. Equivalent to ENG 102.

UST 190 Analysis of Experiential Learning (2-0-2). Prerequisite: Permission of instructor. Seminar designed to assist adult students in clarifying career, personal and educational goals with emphasis on describing college-level learning from prior experience and documenting this learning for assessment. For College of Urban Affairs majors.

UST 200 Introduction to Urban Studies (4-0-4). Introduction to the study of cities using an interdisciplinary approach that includes history, sociology, planning, public administration and economic development; integration of the field of urban studies with the student's everyday experience.

UST 202 Cleveland: The African-American Experience (4-0-4). Cleveland's political, economic, and racial history as typifying older American industrial cities; origins and dynamics of periods of growth and decline with emphasis on race, housing, and poverty.

UST 206 Megacities of Asia (4-0-4). Examines the phenomenal growth of urban areas in Asian countries, and the unique factors of 21st century urbanization in Asia including technology, religion, globalization, and environmental concerns; studies growth of megacities through economic, demographic and socio-political analyses.

UST 240 Democracy and the City (4-0-4). The rise of the modern city in terms of the organizations that have dominated its life, the shaping of the public and private sectors by large formal organizations, and the roles they plan in the life of the city and its people.

UST 242 Introduction to Urban Real Estate and Public Finance (4-0-4). Course focuses on the real estate development industry and practice of public finance; explains, through empirical investigation and theoretical interpretation, the behavior of individuals and groups in societies, economies, governments, and subcultures; introduces

students to how data are collected and analyzed in putting together a property development project and municipal budgets.

UST 250 The City in Film (4-0-4). Examination of the work of contemporary artists in films which depict life in urban America; discussion of visual presentations through the perspectives of city planning, art, politics, architecture and other fields of study.

UST 251 The African-American Image on Film (4-0-4). Examination of the work of contemporary artists in films which depict life in urban Black America; discussion of visual presentations through the perspectives of city planning, architecture, politics and other fields of study.

UST 259 Natural History of the Cleveland Area (3-6-4). General geology, ecology, flora, and fauna of the Cleveland area; field trips to parks and museums to study local rock formations, forest types, and plant and animal identification. Designed primarily for nonscience majors. Cross-listed with ENV 259.

UST 289 Physical Geography (4-0-4). Discussions of physical environments, stressing relationships to people; study of the surface of the earth, including meteorology, science of weather, and geomorphology, science of landforms.

UST 290 Urban Geography (4-0-4). Social, economic, and political structures operating within cities; geographical definitions, location theories, population densities and migrations, and land-use patterns; identification of issues, problems, and policies related to urban settlements.

UST 296 Urban Field Experience (2 to 12 credit hours as arranged). Prerequisite: Permission of instructor. Independent projects for urban studies majors.

UST 300 Economics of Policy Analysis (4-0-4). Introduction to microeconomic theory and its application to urban and regional policy issues; investigates behavior, outcomes and markets; builds the analytical tools to study policies and issues such as income distribution, poverty, price discrimination, health care, municipal finance, and pollution. .

UST 301 Urban Development (4-0-4). Prerequisite: UST 300 or ECN 202. Evolution and changing form of the metropolitan region; linkages between cities and their suburbs, and industrial/occupational structure and labor market flows; examination of appropriate public and private sector roles and responsibilities and their associated costs.

UST 302 Contemporary Urban Issues (4-0-4). The physical, social, and economic dimensions of the urban crisis emphasizing minority communities; traditional and non-traditional approaches to problem definition and solution, techniques for understanding and shaping the physical environment, and constraints to problem-solving in urban areas. Cross-listed with PSM 302.

UST 303 Urban Service Learning (4-8-4). Curriculum-based community service course; students will have the opportunity to work as volunteers with community groups and agencies and will be guided in examining their experiences and concepts of community development, volunteerism, and citizenship.

UST 374 American Architecture (4-0-4). A historical analysis of the built environment from the 17th century to the present; various styles and types of buildings are related to time and place, defining and identifying central characteristics, special function, cultural expression, technology and changes in architectural practice. Cross-listed with ART 374.

UST 375 Cities and Planning (4-0-4). Course examines what humans have done to form the communal environment since ancient times; social, symbolic, functional, and biotechnical domains as generators of architecture and urban planning; value systems in environmental change; policies, plans, and design proposals as record of the humanized environment. Cross-listed with ART 375.

UST 380 Urban Family Development (4-0-4). Community building through a holistic approach to family development in urban communities. Cross-listed with NAD 380, SWK 493.

UST 381 Practicum in Urban Planning (Credit as Arranged). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in urban planning, design and/or development activities. For Urban Studies majors only.

UST 382 Practicum in Urban Management (Credit as Arranged). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in urban management, public administration, policy development and/or government finance. For Urban Studies majors only.

UST 383 Practicum in Environmental Studies (Credit as Arranged). Prerequisite: Permission of instructor. Independent experiential learning involving urban environments. For Urban Studies majors only.

UST 384 Practicum in Urban Studies (Credit as Arranged). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in a specific area of urban studies, such as criminal justice, urban construction management, management-labor relations, community organizing, economic development, or conflict management. For Urban Studies majors only.

UST 385 Practicum in Organizational Leadership (Credit as Arranged). Prerequisite: Permission of instructor. Independent experiential learning involving theory and practice in organizational leadership. For Organization Leadership majors only.

UST 403 Cartography and Graphics (2-4-4). The principles of map-making and the use of presentation graphics in urban planning and research applications; the use of maps and graphics in the analysis of social, economic, and demographic associations of the built environment; basic elements of geographic information systems.

UST 404 Urban Data Analysis (4-0-4). Urban research decisions and procedures; procedures for obtaining empirical knowledge about urban issues and ways to extract the meaning of urban data.

UST 405 Methods of Research and Evaluation (4-0-4). Prerequisite: UST 404 or Introductory Statistics. Introduction to basic concepts of research; examines types of research and the use of theory, hypotheses, and inquiry; develops familiarity with urban databases and other computer applications; introduces program evaluation methods and ethical considerations in research and evaluation.

UST 410 Proposal Writing (4-0-4). Examination of the structure and content of proposals, sources of funding, foundation decision-making, program evaluation, and social/institutional change in the urban environments; independent preparation of proposals and application of evaluation procedures. Cross-listed with NAD 410.

UST 416 Cleveland Neighborhoods and Neighborhood Institutions (4-0-4). Exposes students to the diverse areas of the City of Cleveland through an exploration of its neighborhoods and emphasizes the role of community development corporations and faith communities as factors in stability and growth.

UST 418 Urban Planning (4-0-4). The nature of physical planning and its relationship to social and economic planning; steps in the planning process; levels of planning; preparation and criticism of plans and planning studies.

UST 419 Neighborhood Planning (4-0-4). The process and techniques for the creation and implementation of neighborhood organizations; an introduction to local government organizations and private institutions which support neighborhood planning and federal, state, and local programs which fund neighborhood planning and development programs.

UST 420 Urban Design Seminar (4-0-4). An introduction to the topic of urban design as it relates to the private land development process; financial incentives offered by governments to stimulate development in American cities; analysis of development case studies in Cleveland, including market research and cash flow analysis to determine the feasibility of projects.

UST 422 Rebuilding Greater Cleveland (4-0-4). Reviews Cleveland's past economic history from its vibrant 1920s to the present; introduces students to how and why wealth develops, and the factors leading to a dominant city or region's decline; through a study of urban and economic development, the course explores strategies for transforming Cleveland and Northeast Ohio in an era of global competition.

UST 424 Distressed People, Distressed Places (4-0-4). Prerequisite: UST 300. Investigates public policy approaches to people-based and place-based strategies that confront the consequences of economic development and transition; analyzes the effectiveness of national, state, and local level responses to poverty and spatial distress; examines the connection between product markets, labor markets (people), and land markets (places); develops skills in the areas of public policy formulation, analysis and evaluation.

UST 425 Economic Development Finance (4-0-4). Explores the tools and programs available to the economic development practitioner to address capital needs for business and economic development projects; combines core elements of public finance, real estate finance, and corporate finance; explores critical tools for public policy officials, private developers, and corporate financial officers.

UST 433 Negotiation and Conflict Management (4-0-4). Examines conflict as an omnipresent component of any decision-making environment; tools for understanding the nature of conflict; devising individual and group strategies that minimize the destructive consequences of conflict; and identifying solutions that are satisfactory to all involved; includes lectures, discussions, and simulation games. Cross-listed with PSM 433 and NAD 433.

UST 434 Introduction to Geographic Information Systems (4-0-4). Prerequisite: UST 403 recommended. Principles of Geographic Information Systems (GIS) as a computer tool to provide spatial information analysis; laboratory instruction in the use of GIS software to aid in the analysis of workplace problem situations.

UST 435 Environmental Policy and Administration (4-0-4). Administration of the organizations charged with responding to environmental regulations and/or crises; decision- and policy-making processes within and around these organizations, especially as they relate to conflicting interests and values. Cross-listed with ENV 435.

UST 436 Urban Sustainability (4-0-4). Presents the values, trends and methods of planning for environmentally sustainable cities and regions. Focuses on urban sustainability and built form, including buildings, designed green spaces, urban water systems, energy and economic change. Students become familiar with processes that generate the physical landscape and the impact of human settlements on natural landscapes. Local, state, and federal laws and regulations relevant to land use and resource protection are featured. Students become familiar with planning methods and their use. Cross-listed with ENV 436.

UST 440 Environment and Human Affairs (4-0-4). Challenges to decision-makers in environmental policy-making; strategies appropriate to various decision situations, analysis of decision-making; negotiation and mediation techniques. Cross-listed with ENV 440.

UST 441 Environmental Planning (4-0-4). Exploration of principles and processes of environmental planning, focusing on urban, metropolitan and regional levels; presentation of frameworks and techniques in areas such as site-plan review, urban design, urban environmental restoration, open space and habitat preservation, water quality, bioregionalism, and growth management; development of organizing principles for environmentally sustainable metropolitan regions. Cross-listed with ENV 441.

UST 442 Environmental Finance and Capital Budgeting (4-0-4). Introduces students to natural resource economics theory, financial decision-making processes, and public policy relevant to environmental protection, urban sustainability, and natural resource development and management; examination of public goods and pricing theory, public sector involvement, regulation, market solutions, capital planning, and budgeting for environmental infrastructure. Cross-listed with ENV 442.

UST 449 Comparative Public Administration (4-0-4). Examines the approaches to and processes of public administration with a comparative perspective, in developed and developing countries, with particular reference to American, African and European contexts. The course uses public bureaucracy as a focus for comparison. Major topics include constitutional basis and significance of international bodies on public administration, federal/central, provincial/state and local government systems, process of public policy formulation, administrative structures, and the role of career civil servants and civil society in the management of public policies.

UST 452 Management of Urban and Nonprofit Organizations (4-0-4). Provides students with a basic knowledge of management issues, techniques, and strategies appropriate to an urban setting; integrates knowledge and skills in the field of public management.Cross-listed with PSM 452 and NAD 452.

UST 453 Managing Urban Diversity (4-0-4). Study of diversity, including circumstances faced in urban settings that are exacerbated or affected by diversity factors; exploration of a range of social, political, and economic issues related to diversity. Cross-listed with PSM 453 and NAD 453.

UST 455 Gender and Leadership (4-0-4). Examination of factors influencing public acceptance of women in leadership positions; discussion of strategies for effective leadership in diverse communities, relationships between priorities of the urban community and society's perception of women's roles; course includes guest lectures by women currently in positions of leadership. Cross-listed with NAD 455.

UST 456 Fundamentals of Nonprofit Administration and Leadership (4-0-4). Examines nonprofit organizations as community institutions, and the role of institutional management and leadership in their development; the nature of leadership and management in the nonprofit sector; fundraising and financial management; governance and the respective roles of board, staff and volunteers; the political, economic and inter-organizational environment; community relations; needs assessment; and planning and performance measurement. Cross-listed with NAD 456.

UST 458 Urban Policy (4-0-4). Examination of current state and local political issues focusing on Ohio; perspectives on the legislative, judicial, and executive branches, as well as tax and spending policies, human services and education delivery systems, and the formulation implementation, and analysis of policies.

UST 459 Budgeting and Policy Analysis (4-0-4). Revenue, expenditure, and debt structures of American cities; theories of public budgeting, types of budgets and budget formats, and typical components of a budget document. Cross-listed with NAD 459.

UST 463 Housing Analysis (4-0-4). Analysis of housing from a regional perspective within a framework of supply, demand and population movement; changes produced in neighborhoods and communities as a result of regional housing dynamics are considered, as are the impact that public policies have on regional housing dynamics and community change.

UST 472 Canadian Studies (4-0-4). Department consent required. Comparative study of selected United States and Canadian urban issues, such as housing, urban planning, and historic preservation. Topics will be listed in the semester course schedule.

UST 473 Columbus Seminar (4-0-4). Prerequisite: Permission of instructor. Week-long intensive governmental experience in Columbus, Ohio. Participants learn about public policy issues firsthand from state legislators, state administrators, public interest group representatives, members of the news media, and others engaged in Ohio's policy-making process. Offered over spring break; preparatory and follow-up sessions required.

UST 474 Washington Seminar (4-0-4). Prerequisite: Permission of instructor. On-site study of federal urban policy issues. One week in Washington, D.C., exposes students to critical analysis of the federal budget and legislative process, intergovernmental relations, problems, and current urban policy issues. Offered in summer term; preparatory and follow-up sessions required.

UST 475 Cleveland: Form and Development of an Urban Environment (4-0-4). Prerequisite: ART 375 or UST 375, or permission of instructor. A workshop which examines aspects of visual communication relative to the city. Cross-listed with ART 475.

UST 476 Historic Preservation (4-0-4). The roots of the preservation movement in American cities and its historical antecedents; preservation policies at the federal, state, and local levels of government; emphasis on Cleveland's historic districts, buildings, and landmarks.

UST 477 Regional Planning (4-0-4). Provides students with a comprehensive understanding of the conceptual and practical aspects of regional issues and regional planning; regional planning strategies emphasizing governmental collaboration at the regional level not only to solve regional problems but also to accomplish balanced growth within a metropolitan region. Topics to be explored include sprawl, smart growth, regional planning/regionalism, and case studies of regional collaboration.

UST 478 Sacred Landmarks (4-0-4). Exposes students to urban art, culture, history, and ethnicity attributed to Cleveland's sacred landmarks; examination of sacred landmark preservation efforts in Cleveland, in other American cities, and in cities worldwide.

UST 479 Regional Competitiveness (4-0-4). Prerequisite: UST 404. Topically, focuses on understanding the condition and competitiveness of the region. Methodologically, focuses on Exploratory Data Analysis (EDA) and Exploratory Spatial Data Analysis (ESDA). Taken together, this class deals with the data relevant to assessing regional competitiveness and the innovative methods designed to extract information from those data.

UST 482 Cleveland Management Academy (Variable 1-12 credit hours). Seminar conducted for in-service public managers on current issues in the profession.

UST 484 Ohio Fire Executive (Variable 1-15 credit hours). Students earn 15 credits for completing the Ohio Fire Executive Program.

UST 486 GIS Capstone Seminar (4-0-4). Prerequisites: UST 403, UST 434. Focuses on problem solving skills using GIS software. Uses GIS analytical skills to design, manage, and develop GIS projects. Students are assigned to research and lead discussions on GIS topics related to issues or applications of their project.

UST 489 Advanced Senior Seminar (2-2-4). Prerequisite: Senior standing. Capstone course coordinating knowledge and skills gained through fulfillment of the requirements for a major in Urban Studies. Cross-listed with ENV 489.

UST 490 Urban Internship (2 to 12 credit hours). Prerequisite: Permission of instructor. Work experience in urban agencies for Urban Studies majors.

UST 493 Urban Issues (1 to 4 credit hours). Special topics in urban studies, including housing rehabilitation, urban planning, law and urban policy, drug abuse, and economic development. Topics will be listed in the semester course schedule.

UST 494 Levin Chair Seminar (4-0-4). Current topics and issues in urban studies led by the Albert A. Levin Professor of Urban Studies and Public Service. Topics will be listed in the semester course schedule.

UST 496 Urban Research (2 to 12 credit hours). Prerequisite: Permission of instructor. Special research involvement in ongoing projects or specially developed projects for Urban Studies majors under supervision of a faculty director.

UST 497 Urban Readings (2 to 8 credit hours). Prerequisite: Permission of instructor. Independent study for Urban Studies majors.

Women's Studies Courses

On this page:

- Faculty
- Course Descriptions
- Women's Studies Major
- Women's Studies Minor
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Faculty

Link to Program Personnel
Link to Profiles of Full-time Faculty

Professors: Mary Ellen Waithe (Program Director), Rachel Carnell, Tama Engelking, Bargara Hoffman, Elizabeth Lehfeldt, Roberta Steinbacher; **Associate Professors:** Jennifer Alexander, Chien-Chen Bowen, Elizabeth Cagan, Delia Galvan, Adrienne Gosselin, Dana J. Hubbard, Diane Steinberg, Sarah Toman; **Assistant Professors:** Ana Begovic Juhant, , Sonya Charles; **Lecturers:** Phyllis Benjamin, , Elizabeth Bly, Margaret Payerle, Marnie Salupo Rodriguez, **Associate Professors Emeriti:** Mareyjoyce Green, Sarah Matthews, Robert Wheeler

Course Descriptions

WST 151 Introduction to Women's Studies (4-0-4). Th course is a broadly interdisciplinary examination of the roles of women as their status and roles are socially constructed, and as women can determine them to be. There is emphasis upon related changes in gender relations in contemporary society.

WST 351 Practicum: Women's Studies (4-0-4). Prerequisite: Approval of the Women's Studies Director. Required for major in Women's Studies. Field experience involving the application of theory and practice in a specific area of Women's Studies.

WST 393 Special Topics (4-0-4). Analysis of issues in women's studies; topics vary and may include: The Women's Movement, Women and International Social Development, and The Third Wave: Voices from the Next Generation. Course may be taken for credit more than once, but no single topic may be repeated. Topics will appear in course schedule.

WST 495 Advanced Seminar in Women's Studies (4-0-4). Prerequisites: Senior standing. Required for major and for minor in Women's Studies. Review and synthesis of prior work in Women's Studies. The impact of Women's Studies in higher education is discussed with emphasis on substantive and methodological contributions, initiation of new research frontiers, as well as an overview of cross-cultural perspectives and current issues.

WST 496 Independent Study (1 to 4 credits). Prerequisites: Senior standing, written permission of instructor and Women's Studies Program Director. Faculty supervised and directed selected readings in areas of special interest and topics as arranged with an instructor on an individual basis.

Contact CSU:

Campus Operator
216.687.2000
Click here to view our campus directory.
Admissions
Undergraduate: 216.687.5411 or 1.888.CSUOHIO (888.278.6446)
Graduate: 216.687.5599
Law: 216.687.2304
International: 216.687.4579
Colleges
Monte Ahuja College of Business: 216.687.3786
College of Education and Human Services: 216.687.4625
Fenn College of Engineering: 216.687.2555
College of Graduate Studies: 216.687.9370
Cleveland-Marshall College of Law: 216.687.2344
College of Liberal Arts and Social Sciences: 216.687.3660
College of Sciences and Health Professions: 216.687.5580
Maxine Goodman Levin College of Urban Affairs: 216.687.2136
Division of Continuing Education: 216.687.4850
Offices
Advancement, University: 216.687.3557
Academic Advising: 216.687.2402
Affirmative Action: 216.687.2223
Alumni Affairs: 216.687.2078
Athletics: 216.687.4800
Bookstore: 216.687.2128
Campus411: 216.687.5411
Career Services Center: 216.687.2233
Conference Services: 216.687.2268
Extended Campuses
East Center: 216.802.3000
West Center: 216.875.9600
eLearning: 216.687.3960
Financial Aid: 216.687.3764
Human Resources Development & Labor Relations: 216.687.3636
Library, Law: 216.687.2250
Library, University: 216.687.2478
Marketing, University: 216.687.2290
Parking Services: 216.687.2023
Police, University: 216.687.2020
Recreation Center: 216.687.5196
Residence Life: 216.687.5196
Student Center: 216.687.2048
Student Life: 216.687.2048
Wolstein Center: 216.687.9292

Editor's Note

Dear CSU Faculty, Staff, and Students,

I would like to recognize those who have helped bring the Cleveland State University *2011-2012 Undergraduate Catalog* to you. Special thanks to Shilpa Kotagiri and Naveen Somala for their diligence, persistence, and meticulousness. Updating all of the undergraduate curricular and programmatic changes is a project that takes over nine months to accomplish and takes every bit of institutional expertise we can muster.

Thanks as well to all of the faculty and staff who work to create engaging courses and academic programs. The 2011-2012 additions include a new academic major in Black Studies; concentrations in marketing communication, global studies, business analytics, urban and regional planning, and others; and a variety of courses. Molding and shaping curriculum and academic programs is a significant university-wide endeavor, and we are honored and priviledged to do it.

Engagingly yours,

Frank J. Feola, Ph.D.

CLEVELAND STATE UNIVERSITY

Cleveland State University campus core represented by green areas

Campus Innerlink: Follow the Dots

Key to Buildings

Alphabetical Listing

For Building Updates, visit www.csuohio.edu/campus_map_tour

- **AMC Annex** ..... AA
- **Art Building** ..... AB
- **Parker Hannifin Administration Center** ..... AC
- **Business College** ..... BU
  Monte Ahuja Hall, Nance College of Business Administration
- **MAGNET Building** ..... CM
- **Campus Safety** ..... CS
- **Chester Building** ..... CB
- **Chester Building Annex** ..... CA
  Parking Services, Cleveland State Police
- **Cole Center** ..... CE
  Joseph E. Cole Center for Continuing Education
- **Euclid Commons** ..... EC
  Welcome Center
- **Fenn Tower** ..... FT
- **Health Sciences** ..... HS
- **Heritage Hall** ..... HA
- **Julka Hall** ..... JH
  College of Education and Human Services
  School of Nursing
- **Keith Building** (Temporary) ..... KB
- **Law Building** ..... LB
  Bert L. Wolstein Hall, Cleveland-Marshall College of Law
- **Law Library** LL
- **Library** ..... RT
  Michael Schwartz Library
- **Main Classroom Building** ..... MC
- **Mather Mansion** ..... MM
- **Music & Communication** ..... MU
  Waetjen Auditorium, Drinko Recital Hall
- **Parker Hannifin Hall** ..... PH
- **Physical Education** ..... PE
  Robert Busbey Natatorium, Woodling Gymnasium
- **Plant Annex** ..... PA
- **Plant Services** ..... PS
- **Police** ..... CA
- **Recreation Center** ..... RC
- **Rhodes Tower** ..... RT
- **Rhodes West** ..... RW
- **Science Building** ..... SI
- **Science & Research Center** ..... SR
- **Stilwell Hall** ..... SH
  Fenn College of Engineering
- **Student Center** ..... SC
  CSU Bookstore
- **Theater Arts Building** ..... TA
  Factory Theater
- **Urban Affairs Building** ..... UR
  Glickman-Miller Hall, Maxine Goodman Levin College of Urban Affairs
- **Viking Hall** ..... VH
- **Wolstein Center** ..... WO
  Bert L. & Iris S. Wolstein Center, Henry A. Goodman Arena
- **Wolstein Center Pavilion & Banquet Center** ..... WP
  Gerald H. Gordon Conference Pavilion

★ ..... Emergency Telephones

..... CSU Dining Locations

..... Bike Rack Locations

Ⓡ ..... Health Line Stop Locations

PARKING

For current pricing and lot updates, visit www.csuohio.edu/parking

Campus Visitors may purchase parking in the East Garage (EG), Prospect Garage (PG), West Garage (WG), South Garage (SG) and Lot AA (90) – CE registrants only. After 5:00 p.m. and weekends Lot CG is also available.

Faculty, Staff and Students may purchase a Pre Paid parking hang tag or may register for a complimentary Must Pay parking hang tag, which requires payment of the CSU rate. Must Pay parking is limited at all times to attended lots and includes no overnight parking.

State of Ohio Disabled Parking Permit, either temporary or long term, is required for parking in areas designated for persons with disabilities. Permits can be obtained from the Ohio BMV, http://bmv.ohio.gov/

Parking is offered based upon availability. Parking Fees and Policies are applicable at all times. The Parking Office and Police Department are located in Chester Building Annex. Parking lot use parameters are subject to change. Check CSU web site for updates.

- **Lot C(62)** Disabled Parking only ♿
- **Lot CC** Disabled Parking only ♿
- **Lot CG(CG)** Pre Paid; Must Pay after 2:00 p.m., Visitors after 5 p.m. and weekends
- **Lot EG(EG)** Pre Paid, Must Pay, Visitors* ♿
- **Lot F(63)** Pre Paid Staff and Faculty only; Pre Paid Students after 2:00 p.m.**
- **Lot G(60)** Pre Paid Staff and Faculty only; Pre Paid Students after 2:00 p.m. and weekends; Must Pay after 2:00 p.m.** ♿
- **Lot I(61)** Pre Paid Staff and Faculty, 2 Meters for Police/Parking Visitors
- **Lot J(53)** Pre Paid
- **Lot M(50)** Pre Paid
- **Lot PG(PG)** PG Passes, Visitors Parking (hourly rate)
- **Lot SG(SG)** Pre Paid Passes, Visitors Parking (hourly rate)
- **Lot S1(54)** Pre Paid, Must Pay, Visitors ♿
- **Lot S2(51)** Pre Paid, Must Pay
- **Lot S3(11)** Pre Paid, Must Pay, Visitors ♿
- **Lot U(20)** Pre Paid Staff and Faculty Only
- **Lot WG(WG)** Pre Paid, Must Pay, Visitors* ♿
- **Lot Y(57)** Pre Paid, ♿
- **Lot AA(90)** Pre Paid, Must Pay, CE Visitors ♿
- **Lot HH(10)** Pre Paid
- **Lot KK(31)** Pre Paid
- **Lot REC(65)** REC Parking Passes only; Visitors Parking (meters only)** ♿
- **Lot 22(SC)** Visitors (hourly rate)** ♿
- **Lot 55** Pre Paid
- **Lot 66** Visitor Parking (meters only)
- **Lot 80** Lot 80 Passes Only

Accessible Parking Info

♿ Reserved parking spaces available
* Garage parking
** Under the building parking

Map last revised 3/11/11

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    - Anthropology
    - Art
    - Classical and Medieval Studies
    - Communication
    - Criminology
    - Dramatic Arts
    - Economics
    - English
    - Environmental Studies
    - French
    - Geological Sciences
    - History
    - International Relations
    - Liberal Studies
    - Linguistics
    - Mathematics
    - Music
    - Organizational Leadership
    - Nonprofit Administration *(formerly Urban Services Administration)*
    - Philosophy
    - Physics
    - Political Science
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    - Social Studies
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    - Urban Services Administration (now Nonprofit Administration)
    - Urban Studies
    - Women's Studies
- Bachelor of Business Administration
  offered by College of Business Administration
    - Accounting
    - Business Administration
    - Business Economics
    - Finance
    - Information Systems
    - International Business
    - Management and Labor Relations
    - Marketing
    - Operations Management and Business Statistics
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Computer Engineering
- Bachelor of Electrical Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Music
- Bachelor of Science
  offered by Colleges of: Business Administration, Education and Human Services, Engineering, and Science
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    - Biology - Medical Technology
    - Chemistry
    - Computer and Information Science (CIS)
    - Computer Science (CSC)
    - Early Childhood Education
    - Electronic Engineering Technology
    - Environmental Science
    - Geological Sciences
    - Health Sciences
    - Mathematics
    - Mechanical Engineering Technology
    - Middle Childhood Education
    - Nursing
    - Physical Education and Sport
    - Physics
    - Special Education
- Bachelor of Science in Computer and Information Science
    - Computer and Information Science
        - Computer and Information Science (CIS)
        - Computer Science (CSC)
- Bachelor of Science in Education
    - Early Childhood Education
    - Middle Childhood Education
    - Physical Education and Sport
        - Multi-Age Teaching Licensure
        - Allied Sport Professions
    - Special Education: Intervention Specialists in
      Mild/Moderate;
      Moderate/Intensive Disabilities
- Bachelor of Science in Engineering Technology
    - Bachelor of Science in Electronic Engineering Technology
    - Bachelor of Science in Mechanical Engineering Technology
- Bachelor of Science in Nursing
  offered by College of Education and Human Services
- Bachelor of Social Work
- Banking Service
- Basic Writing Courses
- Bioethics Certificate
- Biology (BS, minor)
- Articulation Agreement with Ohio College of Podiatric Medicine
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- Center for Neighborhood Development
- Center for Nonprofit Policy and Practice
- Center for Public Management
- Center for Sacred Landmarks
- Central and Eastern European Studies Certificate
- Change of Grade
- Changes in Dependency Status
- Chemical Engineering (B.Ch.E.)
- Certificate: Biotechnology
- Courses: Chemical Engineering (CHE)
- Chemistry (BS, minor)
- American Chemical Society Professional Certification
- Courses: Chemistry (CHM)

- Pre-Professional Studies (pre-dentistry, pre-medicine, pre-veterinary)
- Secondary Teaching Licensure
- Child Development Center
- Chinese Courses (CHN)
- Choices Planner
- City is Our Campus Ticket Program, The
- Civil Engineering (B.C.E.)
- Courses: Civil Engineering (CVE)
- CLAM see Classical and Medieval Studies
- CLASS (College of Liberal Arts and Social Sciences)
- Class Rank
- Classical and Medieval Studies (BA, minor)
- Courses: Classical and Medieval Studies (CLM)
- Multi-Age Foreign Language Teacher Licensure
- Cleveland State Web Sites
- Clevelandintern.net
- Closed Course Sections in Engineering
- College Computing Labs
- College Level Examination Program "CLEP"
- Colleges
    - College of Business (Monte Ahuja College)
    - College of Education and Human Services
    - College of Engineering (Fenn College)
    - College of Liberal Arts and Social Sciences
    - College of Sciences and Health Professions
    - College of Urban Affairs (Levin College)
- College-to-College Transfer
- Collegiate Instruction, Department of
- Commencement, Presence at
- Communication (BA, minor)
- see also Communication Management (BA), Film and Digital Media (BA), Journalism and Promotional Communication (BA)
- Certificates: Journalism, Multimedia Advertising
- Courses: Communication (COM)
- Joint Program: Political Communication
- Communication Management (BA)
- areas of concentration within the communication management major: health communication, intercultural communication, mediation, organizational communication, and relational communication
- Community Service Learning
- Completion Rate Requirement
- Comprehensive Learning Center has split into Advising/Tutoring, International Center/National Student Exchange, and GenEd/Freshman Orientation
- Computer and Information Science (BS CIS, minor)
- Computer Science track
- Courses: Computer and Information Science (CIS)
- Second Major
- Computer Help (IS&T)
- Computer Labs, College
- Computer Labs, General Purpose
- Computer Science (BS CIS)
- Computer Use on Campus
- Concurrent Enrollment and Financial Aid
- Conference Services
- Contacts, University : Link
- Continuing Education
- Convocation Center see Wolstein Center
- Cooperative Education Program
- Co-Op Job Placement and Scheduling
- Cooperative Education (Special Program)
- Cooperative Education (Financial Aid: Employment Option)
- Cooperative Education Program Web Site: Link

- Eligibility
- Engineering Cooperative Education Program
- Corrections Concentration, Criminal Justice Certificate
- Correspondance Courses
- Counseling and Testing Center
- Counseling Services
- Course Repeat Policy
- Course Withdrawal Policy, Fenn College of Engineering
- Creative Writing concentration in English BA
- Credit by Examination
- in College of Liberal Arts and Social Sciences
- in College of Sciences and Health Professions
- Credit for Study Abroad
- Credit Hour
- Credit Hour, GPA, and Degree Applications
- Criminal Justice (Department of Sociology) Certificate
- Criminal Justice (Department of Sociology) minor
- Criminal Justice with concentrations in Corrections or Law Enforcement (School of Social Work) Certificate
- Criminology (BA)
- Cross Registration
- Cross-Cultural Communication Certificate
- CSU Foundation, Inc.
- Curriculum and Foundations Courses (EDB)
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- D
- Dance (minor)
- Courses: Dance (DAN)
- Deadlines and Notification (admission)
- Dean's List
- Declaration of Major
    - College of Liberal Arts and Social Sciences
    - College of Sciences and Health Professions
- Degree Completion Programs/Articulation Agreements
- College of Business Administration
- Engineering Technology, College of Engineering
- College of Liberal Arts and Social Sciences
- RN to BSN Program, School of Nursing
- College of Sciences and Health Professions
- Maxine Goodman Levin College of Urban Affairs
- Degrees
- Business Administration
- Education and Human Services
- Engineering
- Graduate Degrees
- Law Degrees
- Liberal Arts and Social Sciences
- Science
- Urban Affairs
- Departmental Examinations
- Dependency Status, Changes in
- Dining on Campus
- Disability Services, Office of
- Discounts on Purchases of Computers
- Distance Learning see eLearning or Online Learning
- Diversity and Multicultural Affairs, Office of
- Dramatic Arts (BA, minor)
- Courses: Dramatic Arts (DRA)
- Tracks: acting, directing, technical theater (costuming, scene design), playwriting, dramatic arts content for teaching

- Dropping Courses (Withdrawal regulations)
- Financial Aid Implications
- Link: Registrar's Add/Drop/Withdrawal page
- Dynamic Campus Environment
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- E
- Early Childhood Education (BS Edu, Early Childhood Licensure)
- Courses: Early Childhood Education (ECE)
- Early Childhood Licensure (post-baccalaureate)
- Earth Sciences (see also Geology)
- Adolescent and Young Adult Teaching Licensure
- concentration in Environmental Studies major
- Economic Development, Center for
- Economics (BA, minor)
- Certificate: Applied Economics and Public Policy
- Courses: Economics (ECN)
- Honors Program
- Economics, Business (BBA)
- Education and Human Services, College of
- Admission Requirements
- Certificates: Gerontology, TESOL
- Course Areas: Education
- Degree and Teaching Licensure
- General Requirements
- eLearning
- Election Integrity, Center for
- Electrical Engineering (BEE)
- Courses: Electrical and Computer Engineering (EEC)
- Electronic Engineering Technology (BS EET, minor)
- Courses: Electronic Engineering Technology (EET)
- E-mail
- Endorsement Programs for Practicing Teachers (TESOL, Reading)
- Engineering Cooperative Education Program
- Engineering Minor (there are none)
- Engineering Science Courses (ESC)
- Engineering Technology (BS EET, BS MET, minor)
- Electronic Engineering Technology
- Mechanical Engineering Technology
- Courses: Engineering Technology (EET, MET, GET, MTT)
- English (BA, minor)
- Certificate: Professional Writing
- Concentrations: literature, creative writing, linguistics, secondary English licensure, and multicultural/multiethnic literature
- Courses: English (ENG)
- Student Activities: *Whiskey Island*; Poetry Center
- English as a Second Language Courses (ESL)
- English Translation of Foreign Literatures Courses (ENF)
- Enrollment
- Admission
- Changes (Add/Drop)
- Link: Go to Registrar's Add/Drop Information page
- Enrollment Changes that Can Reduce Financial Aid Eligibility
- Enrollment in Engineering Courses by Non-Engineering Students
- Enrollment Status
- Registration
- Environmental Biology track in Environmental Science
- Environmental Chemistry track in Environmental Science
- Environmental Geology track in Environmental Science

- Environmental Management concentration in Urban Studies major
- Environmental Planning
- in Environmental Science
- in Environmental Studies
- Environmental Policy and Management concentration in Urban Studies major
- Environmental Science (BS, minor)
- Courses: Environmental Science (EVS)
- Tracks: Environmental Biology, Environmental Geology, Environmental Chemistry, Environmental Technology, Environmental Planning
- Environmental Studies (BA, minor)
- Courses: Environmental Studies (ENV)
- Tracks: Earth Sciences, Environmental Management, Environmental Planning, Life Sciences
- Environmental Technology track of Environmental Science major
- Evening Majors
- Engineering
- Science
- Exercise/Fitness Specialist specialization of Allied Sport Professions (BS Ed)
- Expenses and Financial Aid
- Extended Campuses: Link
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- F
- Family Educational Rights and Privacy Act (FERPA)
- Family Orientation
- Federal Financial Aid Programs
- Federal Pell Grants
- Effect of dropped courses on Federal Pell Grants
- Federal Perkins Loan Program
- Federal PLUS Loan
- Effect of dropped courses on Federal Stafford and PLUS loans
- Federal Stafford Student Loan
- Effect of dropped courses on Federal Stafford and PLUS loans
- Unsubsidized Federal Stafford Student Loan
- Federal Supplemental Educational Opportunity Grants
- Federal Work-Study Program
- Fenn College of Engineering
- Closed Course Sections
- Course Withdrawal Policy
- Degree Listing
- Enrollment in Engineering Courses by Non-Engineering Students
- Evening Programs
- General Requirements
- Late Registration and Late Adding a Course
- University Electives for Engineering Students
- FERPA
- Film and Digital Media (BA)
- areas of concentration within the film and digital media major: film, media studies, and digital media
- Finance (BBA, minor)
- Areas of Specialization: Financial Management, Investment Management, Management of Financial Institutions, Real Estate
- Courses: Finance (FIN)
- Financial Aid
- Application Procedure
- Cooperative Education (Financial Aid: Employment Option)
- Federal Programs
- Financial Aid Web Site: Link
- Grade Point Averages
- Impact of selected grades
- Loss of Eligibility
- Petition for Reinstatement of Financial Aid Eligibility

- Private Scholarships
- Probation: Effect on Financial Aid
- Professional Judgment in Financial Aid
- Regaining Eligibility
- Renewals
- State Programs of Financial Aid
- Types of Financial Aid
- Withdrawals
- Withdrawals, Retroactive
- Withdrawal, Unofficial
- First-Time Freshman Admissions
- Focus Center
- Foreign Language Education Licensure
- Foreign Language or Foreign Culture Requirements
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- University Requirement
- Fraternities and Sororities
- French (BA, minor)
- Courses: French (FRN)
- Study Abroad
- Multi-Age Teacher Licensure
- Freshman English Courses
- Full Service Dining
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- G
- Gay, Lesbian, Bisexual and Transgender Student Services
- General Administration Courses (GAD)
- General Education Requirements ("GenEd"): University
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Maxine Goodman Levin College of Urban Affairs
- General Engineering Technology Courses (GET)
- General Information
- General Purpose Computer Labs
- General Urban Studies concentration in Urban Studies major
- Geographic Information Systems "GIS"
- Certificate
- Concentration in Urban Studies major
- Geological Sciences (BA, BS, minor)
- Courses: Geological Sciences (GEO)
- Secondary Teacher Licensure
- German (minor)
- Courses: German (GER)
- Study Abroad
- Teacher Licensure
- Gerontology (certificate)
- Global Business (certificate)
- Grade Change
- Grade Dispute
- Grade Point Average
- Financial Aid Implications
- Impact of selected grades on Financial Aid
- Grades with Quality Point Value
- Grades without Quality Point Value
- Grading
- Graduate Catalog: Link

- Graduate Courses, Undergraduate Students Taking
- Graduation: Application for
- Graduation Ceremony: Presence at
- Graduation Honors
- Graphic Design Certificate
- Great Lakes Environmental Finance Center (GLEFC)
- Greater Cleveland's Future, Ruth Ratner Miller Center for
- Greek Courses (GRK)
- Guidelines for Admission (through Summer 2006)
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- H
- Health and Wellness Services
- Health Care Administration Courses (HCA)
- Health Education (Multi-Age Licensure as a Second Teaching Field)
- Courses: Health Education (HED)
- Health Sciences (BS)
- Areas of Concentration: Associate Degree completion, Pre-therapy (Occupational Therapy or Physical Therapy), General Interest, or Podiatry
- Courses: Health Sciences (HSC)
- Health, Physical Education, Recreation, and Dance Course Areas
- Courses: HPR Core (HPR)
- Highlights from the Colleges
- Historic Preservation (Urban Studies concentration)
- History (BA, minor)
- Areas of Specialization: Europe; United States; Non-Western, including Africa, Latin America and East Asia; African Diaspora; and Social History
- Certificate: History of the African Diaspora
- Courses: History (HIS)
- Honors Program
- Student Honor Society: Phi Alpha Theta
- Teaching Licensure
- Honors, Graduation
- Honors Program
- Courses: Honors (HON)
- Housing (on-campus)
- Housing (off-campus)
- Housing Research and Policy, Center for
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- I
- Identification Cards
- Independent Study
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Information Services and Technology
- Brief Description
- Information Systems (BBA, minor)
- Courses: Information Systems (IST)
- Instructional Media Services see Library Facilities: Multimedia Services
- Interdisciplinary Minors (CLASS)
- Interdisciplinary Specialization: Political Communication
- International Business (BBA)
- Courses: International Business (INB)
- International Relations Certificate
- International Student Admissions
- Link: http://www.csuohio.edu/offices/international/admissions.html
- International Student Services
- International Studies Certificates

- Internet Access
- Internships
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Intramural Sports
- Introduction to University Life
- IS&T
- IS&T Call Center
- IS&T Communications
- Italian Courses (ITN)
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- J
- Japanese Courses (JPN)
- Journalism and Promotional Communication (BA)
- areas of concentration within the journalism and promotional communication major: journalism, public relations, and advertising
- Journalism Certificate
- Judicial Affairs
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- K
- L
- Labor Relations minor
- Labor Relations, Management and (BBA)
- Language and Culture for Global Affairs Certificate
- Language Skills for Business Certificate
- Laptop Loaners - Mobile Campus
- Laptops on Campus
- Late Registration and Late Adding a Course (Engineering)
- Latin Courses (LAT)
- Latin American Studies Certificate
- Law Enforcement Concentration in Criminal Justice Certificate
- Law Degrees
- Leadership Programs, Student
- Levin College Forum
- Liberal Arts and Social Sciences, College of
- Academic Philosophy
- Academic Policies
- Academic Procedures
- Articulation Agreements
- Certificates
    - Applied Economics and Public Policy
    - Arts Management
    - Bioethics
    - Central and Eastern European Studies
    - Criminal Justice with concentrations in Corrections or Law Enforcement (School of Social Work)
        - Corrections Concentration
        - Law Enforcement Concentration
    - Criminal Justice (Department of Sociology)
    - Graphic Design
    - The History of the African Diaspora
    - International Studies
        - Language and Culture for Global Affairs
        - Cross-Cultural Communication
        - Language Skills for Business
    - Journalism
    - Latin American Studies
    - Multimedia Advertising
    - Professional Writing
    - Science Writing
- Credit by Exampination

- Degrees
- Distance Learning
- General Education Semester Requirements
- General Requirements
- Independent Study
- Interdisciplinary Minors
- Interdisciplinary Specialization
- Internships
- Major Programs Leading to a Bachelor's Degree
- Other Requirements
- Special Educational Opportunities
- Liberal Arts and Social Sciences and Science Colleges Introduction to University Life Course (ASC)
- Liberal Studies (BA)
- Library, University
- Library Collections
- Library Facilities
- Library Services
- Licensure Programs for College Graduates (Post-Baccalaureate Teaching Licensure)
- Life Sciences
- Linguistics (BA, minor)
- Courses: Linguistics (LIN)
- Linguistics Courses offered by English Department
- LINK Program
- Literacy Development and Instruction Courses (EDL)
- Literature Courses (ENG)
- Loan Disbursements
- Loss of Eligibility for Financial Aid
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- M
- Major Programs Leading to a Bachelor's Degree
- Majors, Declaration of
- Management and Labor Relations (BBA, minor)
- Courses: Management and Labor Relations (MLR)
- Minor Focus Areas: General Management, Health Care Administration, Human Resource Management, Labor Relations
- Student organizations: Student Chapter, Society for Human Resource Management
- Mandatory New Student Orientation
- Map of Main Campus: Link
- Marketing (BBA, minor)
- Courses: Marketing (MKT)
- Special tracks: Sales management, consumer marketing, business-to-business marketing, international marketing
- Math for Engineering Technology Courses (MTT)
- Mathematics (BA, BS, minor)
- Courses: Mathematics (MTH)
- Second Major for Computer Science Students
- Special Tracks: actuarial, applied mathematics, pure mathematics, statistics, secondary education licensure
- Secondary Teacher Licensure
- Maximum Time Frame for Satisfactory Academic Progress for Financial Aid
- Maxine Goodman Levin College of Urban Affairs
- Certificate: GIS
- Degrees
- Degree Completion Programs
- Degree Requirements
- General Education Requirements
- Research and Public Service
- Mechanical Engineering (B.M.E.)
- Courses: Mechanical Engineering (MCE)
- Mechanical Engineering Technology (BS MET)

- Courses: Mechanical Engineering Technology (MET)
- Mentoring Program
- Microsoft Office
- Middle Childhood Education (BS Edu, Middle Childhood Licensure)
- Courses: Middle Childhood Education (EDM)
- Post-Baccalaureate Licensure
- Military Science (Army ROTC)
- Courses: Military Science (MSC)
- Military Training and Experience: Credit for
- Minor Programs: see individual subjects
- Minority Affairs and Community Relations, Office of: see Diversity and Multicultural Affairs
- Modern Languages, Department of
- Courses: English Translations of Foreign Literature (ENF)
- Courses: Modern Languages (MLA)
- Language Courses: Arabic, Chinese, French, German, Greek, Italian, Japanese, Latin, Spanish, and others
- Monte Ahuja College of Business
- Certificate Programs :
    - Arts Management
    - Business Biotechnology
    - Multimedia Advertising
- Degrees
- General Requirements
- Multi-Age Teaching Licensure (Licensure)
- Courses: Multi-Age Instruction (EDC)
- Multimedia Advertising Certificate
- College of Business Administration
- College of Liberal Arts and Social Sciences
- Music (Bachelor of Arts, Bachelor of Music)
- Courses: Music (MUS)
- Courses: Applied Music (MUA)
- Music Education Multi-Age Licensure
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- N
- National Guard Scholarship Program
- National Student Exchange
- Native American Studies (minor)
- Neighborhood Development, Center for
- NODIS (Northern Ohio Data Information Service)
- Non-Degree Admission
- Nondiscrimination Policy and Procedure
- Nonprofit Administration (BA, minor)
- Articulation Agreements: human services, community health management
- Courses: Nonprofit Administration (NPA)
- Nonprofit Policy and Practice, Center for
- Northern Ohio Data Information Service (NODIS)
- Nursing (BSN)
- Courses: Nursing (NUR)
- Student organization: Student Nurse Association (SNA)
- Tracks: Basic, RN-to-BSN, Accelerated
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- O
- Off-Campus Course Offerings: Link
- Off-Campus Housing Service
- Ohio Academic Scholarship Program
- Ohio Center for the Advancement of Women in Public Service
- Ohio Instructional Grants (OIG)
- Impact of Dropped Courses on Ohio Instructional Grants

- Ohio War Orphans Scholarships
- Ombudsperson
- Operations Management and Business Statistics (BBA, minor)
- Courses: Operations Management and Business Statistics (OMS)
- Student organization: Student Chapter, APICS (American Production and Inventory Control Society)
- Tracks: operations management, business statistics
- Orientation Programs
- Mandatory New Student Orientation
- Organizational Leadership (BA)
- Outreach Programs
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- P
- Parking Services
- Part-Time Ohio Instructional Grant
- Part-Time Students: and Financial Aid
- Petition for Reinstatement of Financial Aid Eligibility
- Philosophy (BA, minor)
- Bioethics Certificate
- Courses: Philosophy (PHL)
- Ethics concentration
- Phone Directory, University : Link
- Physical Education (BS Edu, Multi-Age Physical Education Licensure)
- Multi-Age Physical Education Licensure
- Physical Education Professional Courses (PED)
- Physical Education Service Courses (PES)
- Specialization Options: Multi-Age Physical Education Teaching License, Allied Sport Professions (Exercise/Fitness Specialist or Sports Manager)
- Physics (BA, BS, minor)
- Bachelor of Science Honors
- Courses: Physics (PHY)
- Secondary Teacher Licensure
- Placement Examinations
- Podiatry
- Biology
- Health Science
- Police, University
- Political Communication (Interdisciplinary Specialization)
- Political Science (BA, minors)
- Certificates: Central and Eastern European Studies, Latin American Studies
- Courses: Political Science (PSC)
- Minors: American Politics, Law and Theory, Comparative Politics, International Politics
- Specialization: Political Communication
- Specialization: Public Service
- Study Abroad: China (Suzhou), Germany, France (Clermont) and others
- Post-baccalaureate Admissions
- Post-baccalaureate Teaching Licensure
- Post-Secondary Enrollment Options Program (PSEOP)
- Praxis II Pass-Rate Data: for Initial Teacher Preparation Program
- Presence at Commencement
- President's List
- President's Message
- Private Scholarships
- Link: Financial Aid List
- Probation: Effect on Financial Aid
- Professional Judgment in Financial Aid
- Professional Writing Certificate
- Project 60 Program/Active Minds
- Project Springboard

- PSEOP
- Psychology (BA, minor)
- Courses: Psychology (PSY)
- Honors Program
- Student Organizations: Psi Chi (honorary), Psychology Club
- Public Management, Center for
- Public Safety Management (BA)
- Articulation Agreements
- Courses: Public Safety Management (PSM)
- Student Organizations: Urban Studies Association
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- Q
- Quality Points
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- R
- Reading Endorsement for practicing teachers
- Reassessment, Academic
- Recreation Center
- Regaining Eligibility for Financial Aid
- Regulations, University
- Religious Studies (BA, minor)
- Courses: Religious Studies (REL)
- Renewals of Financial Aid
- Repeat Course Policy
- Residence Life see Housing
- Residence Requirements
- Resources and Facilities
- Retroactive Official Withdrawals: Financial Aid Effects
- Returning Student in Good Academic Standing
- Returning Students Who Were Academically Dismissed
- Review Records, Right to
- ROTC
- Air Force ROTC (Aerospace Studies)
- Army ROTC: Military Science
- Ruth Ratner Miller Center for Greater Cleveland's Future
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- S
- Sacred Landmarks, Center for
- Satisfactory Academic Progress Standards
- Satisfactory Unsatisfactory (S/U) Grading
- Scholarships: Link to Financial Aid Web site Scholarships page
- Scholarships
- Scholarships, New Freshmen and Transfer Students
- Scholarships, Ohio War Orphans
- Scholarships, Private
- Scholarships, University
- Science, College of
- Academic Philosophy
- Academic Policies
- Academic Procedures
- Articulation Agreements
- Certificate Programs: Biotechnology
- Declaring a Major
- Evening Majors
- General Requirements

- Internships
- Other Requirements
- Second Degree
- Second Major
- Special Educational Opportunities
- Second Degree
- College of Liberal Arts and Social Sciences
- College of Sciences and Health Professions
- Secondary Education Courses (EDS)
- Senior and Alumni Services
- Senior Year Acceleration Program (SYAP) is now Viking Bridge to College Program
- SEOG, Perkins Loans, Federal Work Study
- Sloan Career Cornerstone Series
- Smoke-Free Environment
- Social Science (BA)
- Social Studies (BA)
- Teaching Licensure
- Social Work (BSW)
- Certificate: Criminal Justice (corrections, law enforcement)
- Courses: Social Work (SWK)
- Licensure
- Student Organizations: Social Work in Action; Delta Zeta chaper of Phi Alpha honorary
- Study Abroad: Africa Experience, India Experience
- Sociology (BA, minor)
- Certificate: Criminal Justice
- Courses: Sociology (SOC)
- Criminology (BA)
- Honors Program
- Internships
- Software Training
- Spanish (BA, minor)
- Courses: Spanish (SPN)
- Study Abroad: Mexico, Spain
- Teaching Licensure
- Special Catalog Rights for Transfers from CCC, LCC, LCCC
- Special Education (BS Edu, Mild/Moderate and Moderate/Intensive Needs Licensure)
- Courses: Special Education (ESE)
- Post-Baccalaureate Special Education Licensure graduate level only
- Special Programs
- Specialized Study and Field Experiences Courses (Education) (EST)
- Speech and Hearing (BA, minor)
- Courses: Speech and Hearing (SPH)
- School Audiologist or Speech-Language Pathologist Licensure
- Sports, Intramural
- Sport Manager specialization of Allied Sport Professions (BS Ed)
- Standards for Admissions
- STARS Program
- State Financial Aid Programs
- Student Bar Association
- Student Employment
- Student Government
- Student Identification see VikingCard ID
- Student Life, Department of
- Student Media
- Student Organizations
- List of Recognized Student Organizations: Link
- Student Records
- Right to Review Records

- Student Support Services
- Studio Art
- Study Abroad Program (CISP)
- College of Liberal Arts and Social Sciences
- Credit for Study Abroad
- Summer Programs
- College of Liberal Arts and Social Sciences
- College of Engineering
- SYAP is now Viking Bridge to College Program
- System News
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- T
- Teacher Education Courses
- Teacher Licensure
- Teaching Excellence, Center for
- Teaching English to Speakers of Other Languages (TESOL) endorsement for practicing teachers
- Testing Services
- Testing Center Web Site: Link
- Transcripts, Official Academic
- Transfer
- Admissions Transfer Guides: Link
- Financial Aid for Transfer Students
- Special Catalog Rights for Transfers from CCC, LCC, LCCC
- Transfer Catalog Statement
- Transfer Credit Appeals Procedure
- Transfer Credit Module: Link: Transfer Module
- Transfer Guides, Articulation Agreements and Dual Admissions Agreements
- Transfer Orientation
- Transfer Policy
- Transfering Credits to CSU
- Transient Student Admissions
- Transient Status for Current CSU Students at Other Schools
- Treasury Services Office: Tuition and Fees Information (Expenses and Financial Aid)
- Tuition and Fees on the Treasury Services' Web page
- TRiO
- Tutoring Center
- Types of Financial Aid
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- U
- Undergraduate Admissions
- Undergraduate Students Taking Graduate Courses
- Unger Center for Local Government Leadership
- University Advising Office
- University Center for Teaching and Learning has split into Centers for Teaching Excellence and for eLearning
- University Center is scheduled for demolition in 2008
- University Contacts: Link
- University Electives for Engineering Students
- University Library
- University Ombudsperson
- University Phone Directory: Link
- University Police
- University Regulations
- University Scholarships and Grants
- University Studies has been absorbed into the English and Math departments
- University Web Site
- Unofficial Withdrawal from the University

- Unsubsidized Federal Stafford Student Loan
- Urban Affairs, Maxine Goodman Levin College of
- Urban Child Research Center
- Urban Geographic Information Systems Certificate (also concentration area of Urban Studies)
- Urban Management
- Urban Planning
- Urban Services Administration (BA, minor) *[Note: effective Spring 2009, this program and its courses are renamed Nonprofit Administration - NPA]*
- Articulation Agreements: human services, community health management
- Courses: Urban Services Administration (USA)
- Urban Studies, Department of
- Urban Studies (BA, minor)
- Concentrations: urban planning, urban management, environmental policy and management, historic preservation, geographic information systems, and general urban studies
- Courses: Urban Studies (UST)
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- V
- Veteran's Educational Benefits
- VikingCard ID Office
- Virus Scanning and Internet-Related Software
- Visual Arts Education: Multi-Age Licensure
- Volunteer Programs
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- W
- Web Site, University
- Withdrawal Regulations
- Withdrawal and Financial Aid
- Withdrawals, Retroactive: Financial Aid Effects
- Withdrawal, Unofficial: Financial Aid Effects
- Wolstein (Convocation) Center
- Women in Public Service, Ohio Center for the Advancement of
- Women's Comprehensive Program
- Women's Studies (BA, minor)
- Courses: Women's Studies (WST)
- Work-Study Program, Federal
- Writing Center
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- X
- Y
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