College of Arts and Sciences

College of Arts and Sciences
205 Administration Building, 372-2015
www.bgsu.edu/colleges/as

College administration

Office of the Dean
Donald G. Nieman, Ph.D., dean, 205 Administration Building, 372-2015
Elizabeth S. Cole, Ph.D., associate dean, 205 Administration Building, 372-2015
Christopher Geist, Ph.D., interim associate dean, 205 Administration Building, 372-2015
Richard J. Hebein, Ph.D., associate dean, 205 Administration Building, 372-2016
Roger E. Thibault, Ph.D., associate dean, 205 Administration Building, 372-2016
Darlene Thomas, 205 Administration Building, 372-8543
Molly McClure, 205 Administration Building, 372-2015
Cindy Colvin, 205 Administration Building, 372-2015
Diana Carpenter, 205 Administration Building, 372-2015

Academic advisers

Diana Carpenter, 205 Administration Building, 372-2015
Cindy Colvin, 205 Administration Building, 372-2015
Molly McClure, 205 Administration Building, 372-2015
Darlene Thomas, 205 Administration Building, 372-8543

Schools

School of Art, Thomas Hilty, interim director, 1000 Fine Arts Center, 372-2786
School of Communication Studies, Julie Burke, interim director, 302 West Hall, 372-8349
Interpersonal Communication, Donald Enholm, Ph.D., 313 West Hall, 372-2823
Journalism, Nancy Brendlinger, Ph.D., 319 West Hall, 372-2076

Department chairs

Biological Sciences, Scott Rogers, Ph.D., 217 Life Sciences Building, 372-2332
Chemistry, Deanne Snively, Ph.D., 141 Overman Hall, 372-2031
Computer Science, Ronald Lancaster, Ph.D., 221 Hayes Hall, 372-2337
English, Thomas Wymer, Ph.D., 212 East Hall, 372-2576
Ethnic Studies, Michael Martin, Ph.D., 228 Shatziel Hall, 372-2796
Geography, Stephen S. Chang, Ph.D., 305 Hanna Hall, 372-2925
Geology, Charles Onasch, Ph.D., 190 Overman Hall, 372-2886

Academic advising

Students assume responsibility for meeting all graduation requirements, however, advisers are available for consultation. In the college, students have access to a faculty adviser from the major department and also a staff of professional advisers who work with students in any major. The faculty adviser is an expert in the declared major. The college

German, Russian and East Asian Languages, Timothy Pogacar, Ph.D., 103 Shatziel Hall, 372-2268
History, Fujiya Kawashima, Ph.D., interim chair, 128 Williams Hall, 372-2030
Mathematics and Statistics, Neal Carothers, Ph.D., 450 Math Science Building, 372-2636
Philosophy, David Copp, Ph.D., acting chair, 305 Shatziel Hall, 372-2117
Physics/Astronomy, John Laird, Ph.D., 104 Overman Hall, 372-2421
Political Science, Marc Simon, Ph.D., 122 Williams Hall, 372-2921
Population Culture, Marilyn Motz, Ph.D., 108 Popular Culture Building, 372-2981
Psychology, Dale Klopter, Ph.D., 208 Psychology Building, 372-2301
Romance Languages, Henry Garrity, Ph.D., 203 Shatziel Hall, 372-2667
Sociology, Gary Lee, Ph.D., 222 Williams Hall, 372-2294
Telecommunications, Peter Shields, Ph.D., 322 West Hall, 372-2138
Theatre, Ronald Shields, Ph.D., 338 South Hall, 372-0527

Interdisciplinary program directors

Africana Studies, Lillian Ashcroft-Eason, Ph.D., 15 Williams Hall, 372-8120
American Culture Studies, Donald McQuarie, Ph.D., 101 East Hall, 372-8886
Asian Studies, Fujiya Kawashima, Ph.D., 142 Williams Hall, 372-7597
Canadian Studies, Mark Kasoff, Ph.D., 253 Business Administration Building, 372-2457
Chapman Learning Community, Thomas Klein, Ph.D., 163 Chapman Hall, 372-9979
Classical Studies, Philip Peek, Ph.D., 203 Shatziel Hall, 372-2667
Environmental Studies, Holly Myers-Jones, Ph.D., 153 College Park, 372-8207
Film Studies, Ronald Shields, Ph.D., 307 South Hall, 372-6812
International Studies, Stephen Chang, Ph.D., 305 Hanna Hall, 372-2925
Women’s Studies, Vickie Shields, Ph.D., 246 Shatziel Hall, 372-7133

Center directors

Bowling Green Center for Popular Culture Studies, Jack Santino, Ph.D., Popular Culture Building, 372-2981

Center for Family and Demographic Research, Wendy Manning, Ph.D., 240 Williams Hall, 372-7279
Center for Photochemical Sciences, Douglas Neckers, Ph.D., 132B Overman Hall, 372-2033
Center for Psychological Research and Application, Steve Rogelberg, Ph.D., 300 Psychology Building, 372-2693
Electron Microscope Center, Carol Heckman, Ph.D., 546 Life Sciences Building, 372-2432
J.P. Scott Center for Neuroscience, Mind and Behavior, Paul Moore, Ph.D., 365 Psychology Building, 372-8556
Psychological Services Center, Joan Lawrence, Ph.D., 300 Psychology Building, 372-2540
Small Group Laboratory, Jeff Houser, Ph.D., 227/228 Williams Hall, 372-9607

Academic objectives

The College of Arts and Sciences has two primary instructional purposes: to provide specialized training for students majoring in the basic disciplines of the arts and humanities, the social and behavioral sciences, and the natural, physical and mathematical sciences; and to provide the basic courses that serve as the foundation for the liberal education of all students in all colleges of the University.

Through a flexible curriculum the College of Arts and Sciences combines the traditional and continuing values of a vigorous and broad, general liberal education with sound preparation for a wide variety of careers or for advanced graduate or professional education. Attuned to changing needs and times, the College of Arts and Sciences has preserved and strengthened the central values of a liberal education while providing specializations geared to today’s career opportunities.

Academic advising

Students assume responsibility for meeting all graduation requirements, however, advisers are available for consultation. In the college, students have access to a faculty adviser from the major department and also a staff of professional advisers who work with students in any major. The faculty adviser is an expert in the declared major. The college

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2001-03 Undergraduate Catalog
advising office staff works closely with degree certification, policy and career planning. It is recommended that students seek the assistance of an adviser with questions about course selection and University academic policy. Generally, students are encouraged to meet with an adviser at least once a year to help ensure that all necessary requirements are being completed. It is highly recommended that students maintain a file of academic records, ask questions of the advisers and seek help to assure timely graduation.

Organization of the college

Largest of the collegiate organizations of the University, the College of Arts and Sciences includes two schools (art and communication studies) and 21 academic departments, as well as a number of formally organized program areas. The academic departments span the range of the traditional disciplines in the arts and humanities, languages, sciences and mathematics, and social sciences.

A strong faculty of more than 400 teacher/scholars offers general and specialized instruction leading to six different undergraduate degrees: the bachelor of arts, the bachelor of science, the bachelor of liberal studies, the bachelor of fine arts, the bachelor of arts in communication and the bachelor of science in journalism. Under these six degree programs, students may choose from more than 70 different major fields and an equal number of minor fields. These wide-ranging choices provide ample opportunity to pursue individual interests and needs. All programs utilize the common characteristics of combining breadth of intellectual inquiry with the specialized instructional needs of students seeking either immediate and meaningful post-baccalaureate employment or preparation for graduate or professional study.

School of Art

Admission to Bowling Green State University as an art major involves both admission to the University as well as approval to the School of Art through a portfolio review. Incoming freshmen or transfer students from another BGSU department or another university are required to present a portfolio prior to registration as an art major. Several portfolio review dates are scheduled during the year; these dates, as well as more information pertaining to the portfolio reviews can be found on the School of Art’s Web site.

The School of Art offers a bachelor of fine arts degree in two-dimensional studies, three-dimensional studies, computer art and graphic design. Students may earn a bachelor of arts degree in art, art history and art education. A teacher preparation option is also available and is currently under curricular revision. Students in all degree programs should consult with an adviser for guidance in course selection and degree progress.

Related degree programs

The School of Art sponsors bachelor of arts programs in art history and art through the College of Arts and Sciences. The school also offers a bachelor of science degree in visual arts in conjunction with the College of Education and Human Development (see p. 88). A bachelor of science degree in art therapy is in the process of being phased out. No new students will be accepted into that program. Classes in art therapy will continue to be offered in the School of Art through Spring 2002.

Special topics offerings

Periodically the school offers experimental courses in a variety of areas to enhance the established curricula of the various degree programs. These workshops (ARTS 401, ARTS 402, ARTC 400, ARTD 495), taught by both school faculty and invited artists and scholars, have included: papermaking, illustration, textile printing, photo/print techniques and mural painting. Individual study (ART 470) is also available for students who have completed available course offerings in an area and have exhibited a marked degree of proficiency and independence in regular coursework. Internships and Practicums (ART 489, ARTC 489, ARTD 489) are also available to upper-level students who desire work experience in their chosen field.

Summer and academic year programs in Florence, Italy

The partnership between Bowling Green State University and Studio Art Centers International (SACI) share an academic agreement which offers an excellent bicultural educational experience in studio art and liberal arts instruction in Florence, Italy. The program draws upon the rich past of Florence, its resources in museums, architecture, artists specialists and wide cultural offerings while concurrently presenting contemporary developments in Italian art and culture. Learning takes place in the classroom, in the studio and on field trips in Florence and beyond. Students may elect to attend SACI for a semester, the academic year or as a member of the BGSU summer study abroad program.

Students are encouraged to contact the SACI coordinator in the School of Art for further information.

School of Communication Studies

302 West Hall, 372-8349
Department of Interpersonal Communication, 313 West Hall, 372-2823
Department of Journalism, 319 West Hall, 372-2076

The School of Communication Studies includes two departments: interpersonal communication (IPC) and journalism. The Department of Interpersonal Communication’s mission is to generate and to share knowledge about human communication in a variety of social contexts and to teach applications for ethical and effective interaction in personal and professional settings. IPC offers two degrees for majors and a minor. See the departmental description for the specific requirements for the B.A., B.A.C., and minor.

The Department of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). Journalism offers a major and a minor. Journalism offers three different concentration areas, known as sequences: print journalism (includes newspaper and magazine journalism), broadcast journalism (includes radio, television and electronic media) and public relations (includes corporate or non-profit). The sequences build on core journalism skills to prepare students for work in specialized media. See the departmental description for the specific requirements for the B.S.J. in each sequence and the minor.

Campus media

Participation in campus media is not limited to IPC and journalism majors.

Students interested in television news are encouraged to work for BG24 News (372-2997). Broadcast daily from the studios in West Hall, this campus-community television station offers students experience in producing, writing and on-air newscasting.

The BG News, the five-times weekly campus newspaper (214 West Hall, 372-2601), provides opportunities to gain experience in reporting, editing, advertising and management. In addition students have the opportunity to work on The Key, BGSU’s yearbook (28 West Hall, 372-8086). Other publications include a student magazine, Miscellany, and The Obsidian and The Gavel, newspapers aimed at readers with special interests. All these publications are under the supervision of a board of student publications.

Located on the south side of campus, the Tucker Telecommunications Center contains public television station WBGU-TV and closed-circuit instructional television production and distribution facilities. The center’s staff of 30 full-time professional broadcasters is assisted by graduate assistants, doctoral fellows and more than 50 undergraduate employees.

Students interested in gaining professional radio experience while studying at Bowling Green have two stations at their disposal, WBGU-FM and WFAL, a commercial AM radio station.

Facilities

The school provides access to a variety of specialized facilities. These include a lab with Media 100 computers for video and digital editing, a complete television studio and video-editing facilities, and computer writing laboratories.
Student organizations
The school has local chapters of three national organizations dedicated to professional interest in mass communication fields: Society of Professional Journalists, Public Relations Student Society of America and a student affiliate of Radio/Television News Directors Association.

IPC has a student-run IPC Club and journalism has a chapter of Kappa Tau Alpha, the national journalism honorary society.

The Great Lakes Interscholastic Press Association (GLIPA), which serves junior and senior high school publications in Ohio and portions of Indiana and Michigan, is housed in the school.

Programs offered
The following is an alphabetical list of major degree programs and specializations:

American Culture Studies, B.A., major, minor (Society and Change)
Art, B.A., major, minor (see College of Education and Human Development for alternatives)
Art, Design Studies, B.F.A., major
*Graphic
Art, Two-Dimensional Studies, B.F.A., major
Art, Three-Dimensional Studies, B.F.A. major
Art History, B.A., major, minor
Asian Studies, B.A., major, minor
Biology, B.S., major, minor (see College of Education and Human Development for alternatives)
*Microbiology
Business, General Studies in, B.A., major
Chemistry, B.S., major, minor (see College of Education and Human Development for alternatives)
*Biochemistry
Classical Civilization, B.A., major, minor
Computer Science, B.A., B.S. major, minor
*Business Systems
Creative Writing, B.F.A., major, minor
Economics, B.A. major, minor (see College of Business Administration and College of Education and Human Development for alternatives)
English, B.A., major, minor (see College of Education and Human Development for alternatives)
Environmental Policy and Analysis, B.A., major, minor (see College of Health and Human Services for alternatives)
Environmental Science, B.S., major, minor (see College of Health and Human Services for alternatives)
Ethnic Studies, B.A., major, minor
*Black Studies
*General Ethnic Studies
*Latino Studies

Film Studies, B.A., major, minor
French, B.A., major, minor, (see College of Education and Human Development for alternatives)
Geography, B.A., major, minor (see College of Education and Human Development for alternatives)
Geology, B.A., B.S., major, minor (see College of Education and Human Development for alternatives)
*Geochemistry (B.S.)
*Geophysics (B.S.)
*Paleobiology (B.S.)
German, B.A., major, minor (see College of Education and Human Development for alternatives)
History, B.A., major, minor, (see College of Education and Human Development for alternatives)
Individualized Planned Program, B.A., B.S. International Studies, B.A., major
Interpersonal Communication, B.A., B.A.C., major, minor, (see College of Education and Human Development for alternatives)
Journalism, B.S.J., majors: Broadcast, Print, Public Relations
Latin, B.A., major, minor, (see College of Education and Human Development for alternatives)
Liberal Studies, B.L.S.
Mathematics, B.A., B.S., major, minor (see College of Education and Human Development for alternatives)
*Actuarial Science (B.A. and B.S)
Music, B.A. major, minor (see College of Musical Arts for alternatives)
Neuroscience, B.S., major
Philosophy, B.A., major, minor
Physics, B.S., major, minor (see College of Education and Human Development for alternatives)
*Applied Physics
Political Science, B.A., major, minor (see College of Education and Human Development for alternatives)
Popular Culture, B.A., major, minor
Psychology, B.A., B.S., major, minor, (see College of Education and Human Development for alternatives)
Russian, B.A., major, minor (see College of Education and Human Development for alternatives)
Scientific and Technical Communication, B.A., B.S., major, minor
Sociology, B.A., major, minor
Spanish, B.A., major, minor (see College of Education and Human Development for alternative)
Statistics, B.A., B.S., major, minor
Telecommunications, B.A., B.A.C., major, minor
*Audience Research (B.A.C.)
*Radio (B.A.C.)
*Sales Management (B.A.C.)
*Television (B.A.C.)
Theatre, B.A., B.A.C., major, minor
Women's Studies, B.A., major, minor

The following is an alphabetical list of additional minor degree programs:

Africana Studies
Astronomy
Broadcast Meteorology, B.S.J., B.A.C. (TCOM majors only), B.A., (TCOM majors only)
Canadian Studies
Cognate (Psychology majors only)
Folklore and Folklife
Planned Program
Interdepartmental (B.S.J. degree only)
Italian Journalism
Linguistics
Materials Science
Science (B.S. degree only)

The following is an alphabetical list of Pre-professional training (see p. 51):

Pre-Dentistry
Pre-Engineering
Pre-Law
Pre-Medicine
Pre-Mortuary Science
Pre-Occupational Therapy
Pre-Optometry
Pre-Osteopathy
Pre-Pharmacy
Pre-Veterinary Medicine
Teacher Preparation (see Art p. 56)

The college also offers an arts-education curriculum and other programs leading to dual degrees, including licensure to teach in the public schools. Combined baccalaureate-master’s degree programs are offered in chemistry. For more information, see p. 54.

Special opportunities
Membership in Phi Beta Kappa, the nation’s first Greek letter society and most prestigious honor society, is available to those students enrolled in arts and sciences degree programs who have achieved academic distinction while pursuing a well-rounded liberal arts education. The BGSU chapter was installed in 1983.

The College of Arts and Sciences offers opportunities for year-long study in Salzburg, Austria; Quebec, Canada; Tours, France; Florence, Italy; Guadalajara, Mexico, and Madrid, Spain. Students participating in these programs enroll in courses offered by departments/schools in arts and sciences during their academic year abroad, but participation is not limited to arts and sciences students.

Arts and sciences students who are undecided about a major are assigned to one of the college office advisers and thereby have assistance in the selection of a major.

Opportunities for involvement in co-curricular activity abound in the College of Arts and Sciences. Its academic units sponsor play production and forensics programs as well as numerous discipline-based honor societies and interest groups. The French House, located on campus, offers a small, informal, residential learning...
opportunity for women who are interested in French culture and language, whatever their major field of study. Often, enrollment in the College of Arts and Sciences is not a prerequisite for participation in these activities.

The college also sponsors internship programs through which students gain practical, “hands-on” experience in workplace settings related to their field of study. Many departments and schools in the college also offer internship programs. Arts and sciences students interested in internship experiences may also work under the auspices of the University’s Cooperative Education Program (see p. 18).

A double major can be achieved by completing degree requirements for one degree, the requirements for the major and, instead of a minor, completing the requirements for a second major regardless of the degree that major falls under in the undergraduate catalog.

Chapman Learning Community

Chapman Learning Community (CLC) is a living-learning program designed for academically motivated and ambitious students at Bowling Green State University. Chapman recognizes that the best place to grow, to create, define and strengthen oneself is in a caring and dynamic community, and not in isolation. Students join Chapman because they believe in engaging with and giving to both their local and the world’s wider community, in order to bring about a better, more just world.

In Chapman, students socialize, study together and support one another, seeking to build an ideal community within a residential setting. Chapman first-year students take some Chapman classes together (and other classes outside Chapman) and work to develop their leadership, social and academic skills. Chapman upper-class students assume leadership roles in the community, serving as resident advisers, teaching assistants and peer mentors, as well as take classes and contribute to service learning opportunities. Believing that students learn best when their personal and academic lives are integrated, Chapman provides members with opportunities to deeply enrich their capacities for curiosity, imagination and opportunities for community leadership.

By living in a residence hall that also houses 17 faculty offices, classrooms, large common rooms and computer facilities, students get to know their instructors and each other, inside and outside of class. This unmatched opportunity for collegiality leads to long-lasting, meaningful relationships that not only enhance learning, but also help individuals discover more about themselves. Chapman students also get involved in a wide range of campus activities, develop respect for each other’s differences and the trust needed to build a close-knit community.

**Transferring programs**

In most cases, a student may transfer from one academic program to another, provided he or she is in good academic standing. Students considering a transfer of programs are encouraged to consult a college office adviser.

**Within BGSU**

Other main campus students, including pre-major advising students, wishing to transfer from another college’s program (e.g., College of Business Administration) to a program in the College of Arts and Sciences must begin the process by completing the College Transfer Form in their current college office.

The transfer process for a BGSU Firelands student follows the procedures for the other main college campuses listed above. Firelands students are encouraged to consult with an adviser in the college office on a regular basis. Advisers from main campus colleges travel to BGSU Firelands each semester to help facilitate such interaction.

**From other institutions**

Students wishing to transfer from another institution into a program housed in the College of Arts and Sciences must first be admitted to the University (contact the office of admissions). Typically, students are required to attend an initial orientation and registration event which occurs prior to the beginning of each term. Students will meet with an adviser to review degree requirements at that time. It is important that transcripts from previously attended institutions be evaluated by the BGSU Office of Registration and Records prior to the orientation and registration event. After such evaluation has occurred, advisers in the college can help determine the applicability of transfer credit toward BGSU degree requirements.

**Degree requirements**

**University and general degree requirements**

In addition to specific requirements listed on the following pages, a candidate for any degree in the College of Arts and Sciences must meet the following requirements:

1. Complete the degree requirements listed below, preferably in the freshman and sophomore years;
2. Satisfy the requirements for a major and minor area of specialization. Every student must take English in the first year. If known, the major or minor should be started in the first year, but selection of the major may be deferred as late as the middle of the sophomore year. Certain majors and programs require course sequences. These sequences should be started in the freshman year. Major courses may not be taken “S/U”.
3. Complete the university’s general education program requirements. These include courses in natural sciences, social and behavioral sciences, humanities and arts, international perspectives and cultural diversity in the United States. Students wishing to apply general education program courses to college degree requirements should consult the College of Arts and Sciences Handbook for a list of appropriate courses which could be used to fulfill both sets of requirements. See also the college foreign language statement in this catalog under specific degree being sought;
4. Students anticipating graduation must complete a junior audit four semesters (60 hours) prior to graduating to ensure that all requirements can be met for the degree. Seniors transferring into the college must have a junior audit completed prior to the semester before expected graduation. Seniors transferring during their last expected semester must have a junior audit completed with the faculty adviser’s signature and submitted to the college office within the first week of that semester. Junior audit checklists are available in the college office and must be submitted with the department/school adviser’s signature. Failure to file a junior audit may jeopardize graduating on time. The student assumes the responsibility for failure to be informed about requirements for the degree. See also application for graduation deadlines, p. 8.

**Bachelor of Arts Degree**

Each student must complete the degree requirements listed below, preferably in the freshman and sophomore years, and must satisfy the requirements for a major and a minor area of specialization. Every student must take English in the first year. If known, the major or minor should be started in the first year, but selection of the major may be deferred as late as the middle of the sophomore year. Certain majors and programs require course sequences. These sequences should be started in the freshman year. Major courses may not be taken “S/U”.

**Degree requirements**

**Group I—English composition**

Completion of ENG 112 or demonstration by examination of proficiency in written expression equivalent to that attained by the student who completes that course. (A penalty is imposed if ENG 112 is not completed within the first 60 hours).

**Group II—Foreign languages**

Demonstration of proficiency in a language and language area by one of the options listed below:

1. Graduating from a high school where all instruction was conducted in a language other than English;
2. Passing a proficiency examination in the language on the 202 course level;
3. Having completed four years of one language in high school (student must have completed the fourth full year, for example, Spanish IV, and received credit for these courses);
4. Having completed one of the departmental options listed below (14 hours minimum in the same language area or fewer by advanced placement and high school experience).

Note: Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.

**German, Russian and East Asian Languages (Chinese, Japanese)**
Completion of GERM 101 and 102 plus a minimum of six additional hours from:
- GERM 117, 118, 201, 202, 217, 218, 231, 331 and/or GERM 260, 315, 316;
- Completion of CHIN 101, 102, 201, 202;
- Completion of JAPN 101, 102, 201, 202;
- Completion of RUSN 101 and 102 plus a minimum of six additional hours from:
  - RUSN 201, 202, 215, 216, 313, 317, 319, 331 and/or 312

**Romance languages (French, Greek, Italian, Latin, Spanish)**
Option I:
- FREN 101, 102, 201, 202;
- GRK 101, 102, 201, 202;
- ITAL 101, 102, 201, 202;
- LAT 101, 102, 201, 202;
- SPAN 101, 102, 201, 202

Option II: (one of the following)
- FREN 101, 102, 201, 212
- GRK 101, 102 and two of GRK 201;
- CCLV 241, 242, 245
- LAT 101, 102, and two of LAT 201; CCLV 241, 242, 245
- SPAN 101, 102, 201, 212

A student may transfer at any point from Option I to Option II but not vice versa.
Course 202 is required for admission to 300-level courses.
Credit toward a degree is not granted for foreign language courses which duplicate more than two units of high school study.

**Group III—Mathematics, computation and natural sciences**
Completion of both A and B listed below:
A. Completion of at least one course in addition to the two required for the general education program. Courses include astronomy, biological sciences, chemistry, geology, physics or physical geography (including GEOG 125, 126, 127, 213, 404). Of the three courses, at least two courses must be from the approved list of laboratory courses in the College of Arts and Sciences Handbook.*
B. Completion of one of the following:
1. Three and one-half years of high school mathematics or equivalent proficiency as demonstrated on a placement test;
2. MATH 115, 128, 128, 129 or 130**;
3. MATH 111 or 120** and one of the following: PHIL 103; CS 100 or 101;
4. Three years of high school mathematics and CS 100 or 101. High school mathematics means college preparatory mathematics, which normally includes algebra I and II, geometry and in the case of three and one-half years, trigonometry. Remedial, technical and business mathematics are not applicable.

* Or a B.S. laboratory sequence in one of the sciences meets this requirement. A list of approved courses is printed in the College of Arts and Sciences Handbook.
**See Department of Mathematics and Statistics for placement test.

**Group IV—Social sciences—Canadian studies, economics, environmental studies, ethnic studies, geography, history, political science, psychology, sociology**
Completion of four courses in addition to the two required for the general education program. Courses are selected from at least three areas with at least three courses in one area (excluding GEOG 125, 126, 127, 213, 404). A student majoring in one of the social sciences may include two major courses in this group. A full list of approved courses is printed in the College of Arts and Sciences Handbook. Note that some ethnic studies courses are in Group IV and some are in Group V.

**Group V—Arts and humanities**
Completion of at least three courses in addition to the two required in the general education program, for a total of five courses. Foreign language courses numbered 201, 202, 212 apply to Group II, not Group V. The five courses must include: one course in literature (American, English or foreign), one course in the fine arts (art, art history, music, theatre or film) and three additional courses from at least two of the following areas: ART 101, art history; American, English or foreign literature; American culture studies; ethnic studies; music composition and history; philosophy, popular culture; theatre, and women's studies. It is recommended that philosophy be one of these areas.

A full list of courses approved for Group V requirements is printed in the College of Arts and Sciences Handbook. A student majoring in the arts or humanities may count one major course in this group.

**Bachelor of Arts: Majors and minors**
By the beginning of the second year most students select a major and minor. The possible majors and minors include: American culture studies, art, art history, Asian studies, general studies in business, Canadian studies (minor only), classical civilization, computer science, economics, English, environmental policy and analysis, ethnic studies, film studies, folklore and folklife (minor only), French, geography, geology, German, history, international studies, interpersonal communication, Italian (minor only), journalism (minor only), Latin, linguistics (minor only), mathematics, music, philosophy, political science, popular culture, psychology, Russian, scientific and technical communication, sociology, Spanish, statistics, telecommunications, theatre and women's studies.

The number of hours required for a major or minor varies with departmental requirements but at least 32 hours are required in the major and 20 hours in the minor except as indicated below. In arranging courses in the minor field, a student should consult the department concerned. Outlines listed for each major represent the usual course choices but may be modified upon departmental approval to meet individual needs.

If educational objectives cannot be met by one of the departmental majors or minors, students may create an Individualized Planned Program in consultation with a faculty adviser or advisers. A student who has earned at least 30 hours of credit and who needs at least 30 hours to complete the program may petition the academic appeals board of the college by presenting a statement of rationale as well as a detailed list of courses to be taken. Once approved, the student is obligated to complete the program as planned unless changes are approved by the Office of the Dean. The degree requirements (B.A., B.S., etc.) remain the same.

**Bachelor of Science Degree**
Each student must complete the degree requirements listed below, preferably in the freshman and sophomore years, and must satisfy the requirements for a major and minor area of specialization as outlined.

Every student, however, must take English in the first year. If known, the major or minor should be started in the first year, but selection of the major may be deferred as late as the middle of the sophomore year. Certain majors and programs require course sequences. These sequences should be started in the freshman year. Major courses may not be taken "S/U".

A bachelor of science degree is only available in biological sciences, chemistry, computer science, environmental science, geology, mathematics, neuroscience, physics, psychology, scientific and technical communication or statistics. The student also completes a minor area of specialization as outlined below.

**Degree requirements**
**Group I—English composition**
Students are required to complete ENG 112 or demonstrate by examination that they have proficiency in written expression equivalent to that attained by the student who completes that course. (A penalty is imposed if ENG 112 is not completed within the first 60 hours.)

**Group II—Foreign languages**
Each student is required to demonstrate proficiency in a language and language area by one of the options listed below:
1. Graduating from a high school where all instruction was conducted in a language other than English.
2. Passing a proficiency examination in language on the 202 course level.
3. Having completed four years of one language in high school (student must have completed the fourth full year, for example, Spanish IV, and received credit for these courses).
4. Having completed one of the departmental options listed below (14 hours minimum in same language area or fewer by advanced placement).

Note: Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.

German, Russian, East Asian Languages (Chinese, Japanese)
Completion of GER 101 and 102 plus a minimum of six additional hours from:
GERM 117, 118, 201, 202, 217, 218, 231, 331 and/or GERM 260, 315, 316;
Completion of CHIN 101, 102, 201, 202;
Completion of JAPN 101, 102, 201, 202;
Completion of RUSN 101 and 102 plus a minimum of six additional hours from:
RUSN 201, 202, 215, 216, 313, 317, 319, 331 and/or 312

Romance languages (French, Greek, Italian, Latin, Spanish)
Option I:
FREN 101, 102, 201, 202;
GRK 101, 102, 201, 202;
ITAL 101, 102, 201, 202;
LAT 101, 102, 201, 202;
SPAN 101, 102, 201, 202

Option II: (one of the following)
FREN 101, 102, 201, 212
GRK 101, 102 and two of GRK 201;
CLCV 241, 242, 245
LAT 101, 102 and two of LAT 201;
CLCV 241, 242, 245
SPAN 101, 102, 201, 212

A student may transfer at any point from Option I to Option II but not vice versa. Course 202 is required for admission to 300-level courses.
Credit toward a degree is not granted for foreign language courses which duplicate more than two units of high school study.

Group III—Mathematics, computation and natural sciences: biological sciences, chemistry, computer science, geology, mathematics and statistics, physics
A student is required to complete a minimum of 45 hours of credit including:
1. A major in biological sciences, chemistry, computer science, environmental science, geology, mathematics, physics, psychology or statistics;
2. A minimum proficiency in mathematics equivalent to MATH 131*
3. A laboratory sequence in one of the sciences. (A list of approved courses is printed in the College of Arts and Sciences Handbook.)

Certain science courses numbered 100 do not apply toward a student's degree requirements if credit has been granted for the introductory course in the same science. See individual departmental listings in the course descriptions for specific instructions.

*See MATH course descriptions for placement in MATH 128/130/131/134 & 135 or the Department of Mathematics and Statistics for placement test.

Bachelor of Liberal Studies Degree
The bachelor of liberal studies degree program is one option available to the student whose interests extend beyond a single academic major or more traditional interdepartmental program. The degree's flexibility may make it an appropriate option, for example, for nontraditional students who enroll only in evening courses.

1. A fully admitted student at the University may be evaluated for admission to the B.L.S. program if he or she has:
   a. Completed no fewer than 30 semester hours;
   b. A minimum GPA of 2.25;
   c. At least 45 semester hours of coursework remaining to be completed before graduation;
   d. Submitted the application for admission to the B.L.S. degree program within the first 14 days of the semester in which the last 45 hours of the degree program are begun;
   e. Submitted a personal essay of three to five pages which articulates a specific relationship between the student's long- and short-term goals and objectives and the proposed course of study;
   f. Completed ENG 112;
   g. Removed all high school deficiencies (if applicable);
   h. Completed the University's general education program (see p. 5);
   i. Students enrolled in other colleges at BGSU must meet with a college adviser at the time application is made.

2. A B.L.S. degree program may include within the 122 hours required for graduation no more than 27 hours within any one department in the College of Arts and Sciences.

3. To be eligible to graduate in the B.L.S. degree program, a student must have:
   a. Met all of the requirements set forth in section one above and have been admitted to the program;
   b. Completed 100 hours of coursework within the college;
   c. Met all of the University's requirements for a bachelor's degree;
   d. Followed an approved program of study which is consistent with his or her original approved program;
   e. Satisfactorily completed a minimum of 122 hours with the last 30 hours in residence at BGSU.
Bachelor of Fine Arts Degree for Creative Writing Major

Each student must complete the degree requirements listed below, preferably in the freshman and sophomore years, and must satisfy the requirements for a major in creative writing and a minor in an area of specialization. Major courses may not be taken “S/U.”

Degree requirements

Group I—English composition
Students are required to complete ENG 112 or to demonstrate by examination that they have proficiency in written expression equivalent to that attained by the student who completes that course. (A penalty is imposed if ENG 112 is not completed within the first 60 hours.)

Group II—Foreign languages
Each student is required to demonstrate a proficiency in a language by one of the options listed below:
1. Graduating from a high school where all instruction was conducted in a language other than English;
2. Passing a proficiency examination in the language on the 202 course level;
3. Having completed four years of one language in high school (student must have completed the fourth full year, for example, Spanish IV, and received credit for these courses);
4. Having completed one of the departmental options listed below (14 hours minimum in same language area or fewer by advanced placement).

Note: Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.

German, Russian, East Asian Languages (Chinese, Japanese)
Completion of GERM 101 and 102 plus a minimum of six additional hours from:
- GERM 117, 118, 201, 202, 217, 218, 231, 331 and/or GERM 260, 315, 316;
- Completion of CHIN 101, 102, 201, 202;
- Completion of JAPN 101, 102, 201, 202;
- Completion of RUSN 101 and 102 plus a minimum of six additional hours from:
  - RUSN 201, 202, 215, 216, 313, 317, 319, 331 and/or 312

Romance languages (French, Greek, Italian, Spanish)
Option I:
- FREN 101, 102, 201, 202;
- GRK 101, 102, 201, 202;
- ITAL 101, 102, 201, 202;
- LAT 101, 102, 201, 202;
- SPAN 101, 102, 201, 202
Option II: (one of the following)
- FREN 101, 102, 201, 212
- GRK 101, 102 and two of GRK 201;
- CLCV 241, 242, 245
- LAT 101, 102 and two of LAT 201; CLCV 241, 242, 245
- SPAN 101, 102, 201, 212

Bachelor of Fine Arts Degree for Art Major

The School of Art is accredited by the National Association of Schools of Art and Design and offers several degree options in the visual arts. Central among them is the bachelor of fine arts degree. The requirements for the B.F.A. degree, in addition to the general education requirements listed on p. 5, include the completion of:
1. Degree requirements;
2. A core of art foundation courses;
3. A major in either two-dimensional or three-dimensional studies including:
   a. 34 hours of required courses within the two dimensional or three dimensional studio specialization;
   b. 18 hours of support from any studio area;
   c. 12 hours of art history;
   d. 6 or more electives from within the School of Art or college;
   e. 9 hours of academic electives.

OR a computer art specialization including:
   a. A pre-major requirement;
   b. 30 hours specialization in either animation, imaging or interactive art;
   c. 21 hours of studio support;
   d. 12 hours of art history;
   e. 6 or more electives from within the School of Art or college;
   f. 9 hours of academic electives.

OR a major in graphic design studies including:
   a. Pre-major review;
   b. 27 hours of specialization;
   c. 24 hours of studio support;
   d. 12 hours of art history;
   e. 6 or more electives from within the School of Art or college;
   f. 9 hours of academic electives.

Group III—Science, mathematics, computer science
Each student must complete two courses from the general education program including one course approved for laboratory credit listed in the College of Arts and Sciences Handbook.

Group IV—Social science
Each student must complete one course in addition to the University general education program. Courses approved for social science credit are listed in the College of Arts and Sciences Handbook.

Group V—Arts and humanities
In addition to the University general education program, each student is required to complete one course in literature (American, English or foreign) and two additional...
Bachelor of Arts in Communication Degree

The requirements for the degree of bachelor of arts in communication (B.A.C.) include completion of the requirements for the baccalaureate listed on p. 5 and:
1. Completion of the degree requirements in the six areas listed below;
2. No major courses may be taken "S/U".

Degree requirements

Group I—Communication

Students are required to complete ENG 112 or to demonstrate by examination that they have proficiency in written expression equivalent to that attained by the student who completes that course. (A penalty is imposed if ENG 112 is not completed within the first 60 hours.) IPC 102, THEA 202 and IPC 201 are also required.

Group II—Foreign languages

Each student is required to demonstrate a proficiency in a language by one of the options listed below:
1. Graduating from a high school where all instruction was conducted in a language other than English;
2. Passing a proficiency examination in the language on the 202 course level;
3. Having completed four years of one language in high school (student must have completed the fourth full year, for example, Spanish IV, and received credit for these courses);
4. Having completed one of the departmental options listed below (14 hours minimum in the same language area or fewer by advanced placement).

Note: Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.

German, Russian, East Asian languages (Chinese, Japanese)

Completion of GERM 101 and 102 plus a minimum of six additional hours from GERM 117, 118, 201, 202, 217, 218, 231, 331 and/or GERM 260, 315, 316;
Completion of CHIN 101, 102, 201, 202;
Completion of JAPN 101, 102, 201, 202;
Completion of RUSN 101 and 102 plus a minimum of six additional hours from RUSN 201, 202, 215, 216, 313, 317, 319, 331 and/or 312

Romance languages (French, Greek, Italian, Latin, Spanish)

Option I
FREN 101, 102, 201, 202;
GRK 101, 102, 201, 202;
ITAL 101, 102, 201, 202;
LAT 101, 102, 201, 202;
SPAN 101, 102, 201, 202

Option II: (one of the following)
FREN 101, 102, 201, 212
GRK 101, 102 and two of GRK 201;
CLCV 241, 242, 245
LAT 101, 102 and two of LAT 201; CLCV 241, 242, 245
SPAN 101, 102, 201, 212

A student may transfer at any point from Option I to Option II but not vice versa.
Course 202 is required for admission to 300-level courses. Credit toward a degree is not granted for foreign language courses which duplicate more than two units of high school study.

Cultural experience

Those students who have completed two years of one foreign language in high school may select a planned program of at least four courses involving study of foreign or ethnic cultures drawn from a list approved by the major department.

Group III—Mathematics and science

Each student must complete at least two courses in natural science elected from the general education program including at least one course approved for laboratory credit listed in the College of Arts and Sciences Handbook.

Group IV—Social sciences: economics, ethnic studies, geography, history, political science, psychology, sociology

Each student must complete one course in addition to the general education program. Two departments must be represented. A list of approved ethnic studies courses is printed in the College of Arts and Sciences Handbook.

Group V—Arts and humanities: art, literature (American, English or foreign), film, music, philosophy, popular culture, theatre

Each student must complete one course in addition to the general education program requirement. Two departments must be represented. A list of courses approved for Group V requirements is printed in the College of Arts and Sciences Handbook. Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.

Group VI—Cognate studies experience

Students must complete, as specified by the nature of their specialized program, six additional courses from at least two of the above groups.

Bachelor of Arts in Communication: Majors and minors

Students receiving a bachelor of arts in communication may major in theatre, interpersonal communication or telecommunication.

Specialized programs

Each student is expected to present a program of specialization in communication study from existing structured options (theatre, telecommunications, interpersonal communication) or a previously approved individual program to approximate the equivalent of a range from 42-54 hours.

Bachelor of Science in Journalism

A candidate for the degree of bachelor of science in journalism must meet the following requirements in addition to those listed on p. 5.
1. Be proficient in keyboarding skills;
2. Complete approximately 58 semester hours of degree requirements, including completion of the general education program and three to eight hours of English composition; demonstration of proficiency in a foreign language; three hours of cultural diversity; six hours of natural science including a laboratory course; 18 hours of social science courses including history, political science and economics; 12 hours of humanities and arts courses including A&S 250 (Great Ideas), English literature and philosophy; six hours of computation and mathematics including computer science and a course in either college mathematics, statistics or accounting, and a three-hour course in speaking and listening. Courses fulfilling the degree requirements are listed in the Department of Journalism requirements sheet provided to all incoming first-year and transfer students and available from the departmental office in 319 West Hall.

Foreign language requirement

Each student is required to demonstrate a proficiency in a language by one of the options listed below:

a. Graduating from a high school where all instruction was conducted in a language other than English;
b. Passing a proficiency examination in the language on the 202 course level;
c. Having completed four years of one language in high school (student must have completed the fourth full year, for example, Spanish IV, and received credit for these courses);
d. Having completed one of the departmental options listed below (14 hours minimum in the same language area or fewer by advanced placement).

Note: Foreign language courses numbered 201, 202, 212 apply to Group II not Group V.
 german, Russian, East Asian language (Chinese, Japanese)
Completion of GERM 101 and 102 plus a
minimum of six additional hours from
GERM 117, 118, 201, 202, 217, 218, 231,
331 and/or GERM 260, 315, 316;
Completion of CHIN 101, 102, 201, 202;
Completion of JAPN 101, 102, 201, 202;
Completion of RUSN 101 and 102 plus a
minimum of six additional hours from
RUSN 201, 202, 215, 216, 313, 317, 319,
331 and/or 312

Romance languages (French, Greek, Italian, Latin, Spanish)
Option I
FREN 101, 102, 201, 202;
GRK 101, 102, 201, 202;
ITAL 101, 102, 201, 202;
LAT 101, 102, 201, 202;
SPAN 101, 102, 201, 202
Option II: (one of the following)
FREN 101, 102, 201, 212
GRK 101, 102 and two of GRK 201;
CLCV 241, 242, 245
LAT 101, 102 and two of LAT 201; CLCV
241, 242, 245
SPAN 101, 102, 201, 212

A student may transfer at any point from
Option I to Option II but not vice versa.
Course 202 is required for admission to 300-
level courses. Credit toward a degree is not
granted for foreign language courses which
duplicate more than two units of high school
study.

3. Complete 32 or 33 semester hours of
journalism/mass communication courses,
14 or 15 of which are core journalism
courses, with the remainder from specific
sequence courses and electives. No more
than 33 semester hours of journalism/
mass communication courses may be
counted towards a bachelor of science in
journalism degree. (Note: Courses taken
in departments and programs other than
journalism, such as telecommunications
or visual communication technology, may
count as part of the 33 semester hours
allowed. However, students should not
enroll in mass communication courses in
programs and departments outside of the
Department of Journalism without
permission from their adviser or the chair
of the Department of Journalism);

4. Earn a grade of “C” or better in all
journalism courses that count toward the
32 required hours in the journalism major
and maintain a 2.5 grade point average in
journalism courses (and a 2.5 in JOUR
100 and 200). All journalism courses
must be taken for a grade. A student is allowed
to repeat a journalism course only once if
a grade of “D” or lower is received;

5. Complete a minor of at least 20 semester
hours in a field other than journalism/mass
communication or complete an
interdepartmental minor of 20 hours that
clusters courses in two or more fields
other than journalism/mass communica-
tion. Twelve of the 20 hours required for a
minor must be in 300- or 400-level
courses. Minors are declared in consulta-
tion with the student’s adviser. All courses in
the minor must be taken for a letter
grade (not “S/U”);

6. Earn an overall grade point average of
2.25 in order to graduate.

Note: Resources may limit class enrollment
in upper-division journalism courses,
beginning with JOUR 200. Total hours
earned, declared sequence and grade point
average determine which journalism students
are given preference. Students not majoring
in journalism may find it difficult to gain
admittance into some upper-division
journalism courses, including JOUR 200.
Although it may limit their admission to other
journalism skills courses, non-majors may
wish to consider enrolling in JOUR 201,
Journalism Techniques for Non-majors.

Specialization: Three sequences
In addition to other requirements, each
journalism major chooses one of three areas
of specialization called sequences. The
broadcast journalism sequence develops
competence in the electronic media of radio
and television. The print journalism sequence
is generally associated with training for
reporting, writing and editing positions on
weekly and daily newspapers, wire services,
magazines and other publications. Public
relations includes inter-group communica-
tions and relating the interests of business,
industry, government, and public and private
institutions to each other and to society.

Core courses in journalism required of all
majors (14 hours minimum)
JOUR 100, 200, 250, 450 (12)
JOUR 400 (2-3); 2 hours required, one of
which must be with a campus medium
such as The BG News, Miscellany
magazine, The Key yearbook, etc.

Print journalism (9 hours)
JOUR 320, 325, 420

Public relations (9 hours of journalism
courses and 6 hours of business courses)
JOUR 341, 344, 440
MKT 300
MGMT 305

Note: Both of the business courses may be
applied to certain minors, in consultation with
the student’s adviser.

Required of all majors (9 hours)
One skills course from another sequence
(3);
One issues course chosen from JOUR
455, 465, 475, 485 and 495;
One elective chosen in consultation with
adviser.

Enrolling in journalism sequences
Before being admitted into JOUR 200, a
student MUST:
1. Complete at least 30 hours of coursework
consisting of degree requirements
including ENG 112 and JOUR 100;
2. Earn an overall grade point average of
2.7 in the above mentioned coursework.
The coursework and GPA must be
completed before enrolling in JOUR 200;
3. Earn at least a “C” in JOUR 100;
4. Officially enroll in the chosen sequence
by declaring a major near the completion
of JOUR 200. Students must have an
overall GPA of 2.5 before their major will
be approved by the department. To
remain journalism majors, students must
maintain a 2.5 grade point average in all
journalism courses and earn a grade of
“C” or better in every journalism course
that counts toward the 32 required hours
in the major. An overall GPA of 2.25 must
be maintained for graduation;

If transferring into the BGSU journalism
program, students must have a 2.5 grade
point average in both journalism and
overall coursework if JOUR 200 transfer
credit is approved. The normal require-
ments for entry into JOUR 200 apply if a
student does not receive transfer credit
for JOUR 200. No more than 12 semester
hours of coursework in journalism will be
accepted for transfer from junior colleges.
No more than 15 semester hours of
journalism sequence will be accepted for
transfer from any four-year institution.

Note: Students seeking entry into JOUR 200
who are not pre-journalism majors must meet
all of the above-listed requirements. Pre-
journalism majors have priority registration.

Non-journalism electives
After completing approximately 58 hours of
required general education courses, 29-30
hours of required journalism/mass communi-
cation courses and a 20-hour required minor,
most students will have approximately 5-15
semester hours remaining to complete the
122 semester hours required for graduation.
Students must use these hours as general
electives, taking courses outside the field of
journalism/mass communication. Students
are encouraged to select these general
 electives carefully in consultation with their
journalism adviser. General electives should
be chosen with the goal of enhancing the
student’s overall education.

Preprofessional training
The College of Arts and Sciences provides
four kinds of preprofessional training:

Arts-professional curricula
These are offered in cooperation with the
professional schools and colleges of other
institutions of higher learning. The student
spends three years at Bowling Green before
entering a professional school. Upon
satisfactory completion of the first year in
the professional school, a bachelor’s degree is
granted from Bowling Green.
Preprofessional preparation
It is strongly recommended that the student who expects to enter a professional school first complete a four-year course of study in the College of Arts and Sciences. A student may desire, however, to secure the bachelor of arts or bachelor of science, as well as a professional degree, but may be unable to give the time necessary for the completion of both programs. Therefore, combination arts-professional curricula are offered.

Combination curricula are offered in cooperation with the professional schools and colleges of other institutions. These enable the student to shorten the time required for securing the two degrees by substituting the first year of work in a professional college for the fourth year of the course in arts and sciences. These courses of study vary in length from five to seven years—the first three years being taken in the College of Arts and Sciences and the remainder in an approved professional school. Upon the satisfactory completion of the work of the first year in the professional college, the student is granted the degree of bachelor of arts or bachelor of science by Bowling Green.

Combined curricula
The student may obtain both an arts and sciences degree and an education degree at Bowling Green by following this program. Permission to graduate from one of these combination curricula must be obtained from the dean before the end of the junior year. A student in these curricula must:
1. Earn a minimum of 92 hours either in residence or by advanced placement; at least 60 hours must have been taken at Bowling Green in the student’s last two academic years prior to entering the professional school;
2. Earn a grade point average of at least 2.5 in all courses taken in residence;
3. Meet the requirements of the degree sought;
4. Meet the major and minor requirements of the curriculum selected.

Combined baccalaureate-master’s program
By following this program, the student may finish the coursework for a bachelor’s degree in less than four complete years and is prepared for early enrollment in a graduate program. A student who expects to receive a degree by completing one of these curricula must meet all of the requirements for the degree including major, minor and group requirements.

Other programs
A combined arts-professional curriculum is also offered through the College of Education and Human Development.

Preparation for Dentistry
Biological Sciences, 503 Life Sciences, 372-8361
Chemistry, 209 Physical Sciences, 372-8293
Admission to dental school is selective and based upon scholarly achievement and aptitude as indicated by scores on the Dental Aptitude Test, which is generally taken in the spring semester of the student’s third year of college. The predental student should select an academic program that provides for an alternate career should acceptance into dental school be denied. The bachelor of science degree program can be planned to meet all course requirements for dental school and still provide time for sufficient electives in other areas so that the student may attend graduate school or pursue new career alternatives. There are no preferred majors for entrance into dental school, although students generally choose biology or chemistry.

Predental students are encouraged to meet frequently with an advisor to ensure progress in meeting the designated prerequisites, to prepare for the Dental Aptitude Test and to make application to dental school.

Recommended course sequence
MATH 131, 232, 233, 332 (16)
CHEM 125, 127, 128 or 135, 137, 138; CHEM 201 for those having taken 127
PHYS 201 and 202 or 211 and 212
MATH 128 or 129 or 130 (by placement) and 131 and 232 depending on major

A student should take the required courses to complete a major and a minor, as well as the degree requirements for the particular degree program selected, and electives to total 122 hours. A science minor may be desirable.

Preparation for Engineering
104C Overman Hall, 372-7832
The two-year curriculum outlined below closely parallels the introductory coursework of engineering schools and is designed for the student who expects to transfer to a college of engineering at the end of two years. Since the requirements in engineering colleges in different fields of engineering vary considerably, the student should consult with the preengineering program adviser early in the first year in order to plan a schedule to meet the requirements of the institution and branch of engineering in which he or she expects to receive a degree.

Engineering is presently a high-opportunity career area and a preengineering program at Bowling Green offers several advantages, especially for those students who are uncertain about an engineering specialty. However, students should be advised that all engineering specialties require a high aptitude for mathematics and quantitative reasoning. In order to complete the curriculum below in two years, a student must be qualified to enroll in MATH 131 during the fall semester of the first year; this normally requires four years of high school mathematics and good mathematics aptitude.

Recommended course sequence
MATH 131, 232, 233, 332 (16)
CHEM 125, 127 and 128 or 135, 137 and 138 (10)
PHYS 211, 212, 301, 313 (14)
CS 101 (3)
CS 205 (3)
DESN 104 (3)
ENG 112 (3)
Electives

Preparation for Law
English, 212 East Hall, 372-6841
History, 128 Williams Hall, 372-2030
Philosophy, 311 Shatzel Hall, 372-2560
Political Science, 116 Williams Hall, 372-7416
Sociology, 219 Williams Hall, 372-2297
Undecided, 205 Administration Building, 372-2015

All accredited law schools in Ohio, like most accredited schools throughout the country, require a college degree for admission. A college degree is also a prerequisite to taking the Ohio Bar Examination and the bar examinations for most other states. Beyond the minimum requirements for admission, law schools emphasize the value of a broad, general program of arts and sciences for the prospective law student. Above all, they stress the importance of acquiring certain intellectual skills and abilities rather than a particular body of information. Foremost among these skills are facility in writing and speaking, logical reasoning and the use of abstract concepts. Because the student can develop these skills in a variety of courses, there is no basis on which to prescribe a rigid and detailed “prelaw curriculum” or recommend any particular major.

Law schools, however, uniformly emphasize the special value of courses in which considerable writing is required. In addition courses in American government help acquaint the student with the basic legislative, administrative and judicial processes of our society. Business and economics courses often provide an understanding of business and financial concepts and terms with which the lawyer may deal. Other disciplines such as history, philosophy, psychology and sociology offer concepts, information and perspectives that are important in dealing with modern legal issues. Finally, prelaw students may wish to take a course in which case method is used to test if their aptitudes lie in this direction.
Preparation for Medicine
503 Life Sciences, 372-8361
141 Overman Hall, 372-2031
Admission to medical school is selective and dependent upon scholarship and aptitude as indicated by the scores attained on the Medical College Admission Test (normally taken during the spring semester of the student's third year) and by other criteria. The student should include in the premedical program a course of study to prepare for admission to medical school and for admission to an appropriate graduate school or for an industrial, government or teaching position in case the first choice cannot be realized. To meet the requirements for admission to most medical schools, the bachelor of science curriculum can be modified to include the required courses and still provide the student with enough depth in at least one area for graduate work or for career opportunities if medical school is not attended. There is no preferred major for entrance into medical school. Generally, either chemistry or biology is chosen by the premedical student, but other majors are possible.

The premedical student is urged to confer frequently with the adviser, particularly with respect to planning prerequisite courses for the Medical School Admission Test and for meeting the admission requirements of the preferred medical school.

Recommended course sequence
Biol 204, 205 (10)
Chem 125, 127, 128 or 135, 137, 138;
Chem 201 for those having taken 127
Chem 341, 342 (10)
Math 128 or 129 or 130 (by placement)
and 131 (232 optional depending upon major) (7-13)
Phys 201 and 202 or 211 and 212 (10)
Eng 112 (3)

In addition to completing the group requirements for the degree sought, a student should plan to take the required courses to complete a major and a minor. Total: 122 hours. Note: the science minor may be advantageous.

Preparation for Mortuary Science
205 Administration Building, 372-2015
The Board of Embalmers and Funeral Directors of Ohio requires a minimum of 60 semester course hours to register with the board prior to entering a college of mortuary science. At least 30 hours must be in the following subject areas, with a minimum hourly distribution of English (eight hours), science (six hours), social science (eight hours) and fine or applied arts (six hours). In addition, at least three hours of psychology and three hours of speech communication (offered in the Department of Interpersonal Communication) are required. Students wishing to practice in another state should contact its licensing authority. Information about colleges accredited by the Commission of Schools of the American Board of Funeral Service Education can be obtained by writing to the agency at 201 Columbus St., P.O. Box 2098, Fairmont, WV 26554.

The Cincinnati College of Mortuary Science offers the bachelor in mortuary science degree. Students planning to transfer into this program after two years at Bowling Green must pass at least 10 hours of English composition and literature; 12 hours of social science, including required psychology and sociology; 12 hours of natural science/math, with biological sciences and chemistry recommended; 12 hours of humanities and the arts, including beginning drawing/art, sculpting and theatre arts recommended, and IPC 102 required, as part of the 60-hour minimum requirement to enter. For more information, write to the American Board of Funeral Service Education, 14 Crestwood Drive, Cumberland, ME 04021.

Preparation for Occupational Therapy
205 Administration Building, 372-2015
Occupational therapy—an auxiliary medical service in which normal activities are used as remedial treatment in the rehabilitation of patients—is being used increasingly in hospitals, schools, rehabilitation centers and related institutions. Such therapy is prescribed by physicians and applied by trained therapists as part of the treatment of an adult or a child in the areas of orthopedics, psychiatry, general medicine and surgery. In preparing for a career in occupational therapy the student should complete two years of preprofessional courses at BGSU, two years of academic instruction in an approved professional school and 10 months of clinical training. Ohio institutions offering bachelor's degrees in occupational therapy include Cleveland State and Ohio State universities. Professional occupational therapy programs differ greatly in preprofessional course requirements. While advising of a general nature is available through the College of Arts and Sciences, the student should contact the institution in which admission will be sought to ensure that specific preprofessional and admission criteria are met.

Preparation for Optometry
Biological Sciences, 503 Life Sciences, 372-8361
Chemistry, 209 Physical Sciences, 372-2031
Requirements vary for admission to optometry schools and colleges. Typically, they include courses in English, mathematics, physics, chemistry and biological sciences. Requirements of specific schools should be examined before planning the coursework for the sophomore year. A list of accredited schools and colleges of optometry in the United States can be obtained from the American Optometric Association, 243 N. Lindbergh Blvd., St. Louis, MO 63141.

The following two-year pattern coordinates with the program of the College of Optometry at the Ohio State University. Many students find that three or four years of preoptometry are necessary before gaining admission.

Recommended course sequence
(62 hours)
Chem 125, 127, 128, 341, 342 (20)
Phys 201, 202 (10)
Biol 204, 205 (10)
Biol 313 (4)
Eng 112 (3)
Math 128 or 129 or 130 (by placement) and 131 (8)
Psyc 201 (4)
Electives

The amount of foreign language to be taken depends upon the requirements of the professional school and the student's high school preparation. Students who do not need foreign language courses should enroll instead in those courses which meet the requirements of the professional school they plan to enter.

Preparation for Osteopathy
209 Physical Sciences, 372-8293
The requirements and recommendations for entrance to schools of osteopathy are essentially the same as those for medical school.

Preparation for Pharmacy
209 Physical Sciences, 372-8293
All accredited colleges of pharmacy require five years of study to qualify for the pharmacy degree. One or two years of the five-year requirement may be satisfied at the University. The state boards of pharmacy usually require a period of practical experience in pharmacy. Students should request information concerning requirements for a certificate to practice pharmacy from the board of pharmacy in the state in which they wish to practice. In Ohio this information may be obtained from the State Board of Pharmacy, Wyandotte Building, 21 West Broad St., Columbus, OH 43215.

Since colleges of pharmacy vary in their requirements, prepharmacy students should ascertain the requirements of the school they plan to enter before selecting the courses for the second year. The program outlined below prepares the student for transfer to the College of Pharmacy at the Ohio State University after one year.

A list of accredited colleges of pharmacy may be obtained from the American Association of Colleges of Pharmacy, 4630 Montgomery Ave., Suite 201, Bethesda, MD 20014.
Recommended course sequence (33 hours)
- BIOL 204, 205 (10)
- ENG 112 (3)
- MATH 128 or 129 or 130 (by placement) and 131 (8)
- Electives chosen from social sciences, literature and philosophy
  CHEM 125, 127, 128 (10)

Some pharmacy schools require additional calculus.

Preparation for Veterinary Medicine

Biological Sciences, 503 Life Sciences, 372-8361
Chemistry, 209 Physical Sciences, 372-8293

Colleges of veterinary medicine require two years of pre-veterinary medical work for admission; however, most students find that three or four years of pre-veterinary study are necessary. The two-year pre-veterinary medical program which follows meets the requirements of the College of Veterinary Medicine at the Ohio State University. Students should obtain information as early as possible about the requirements of the school where they plan to apply. A list of accredited colleges of veterinary medicine in the United States can be obtained from the American Veterinary Medical Association, 900 N. Meacham Rd., Schaumberg, IL 60172.

Recommended course sequence (62 hours)
- BIOL 204, 205 (10)
- BIOL 313 (4)
- BIOL 350 (3)
- ENG 112 (3)
- CHEM 125, 127, 128 or 135, 137, 138 (10)
- CHEM 341, 342 (10)
- CHEM 308 or 445 (3)
- MATH 130 (3) or 128 (5) (by placement)
- PHYS 201, 202 (10)

Electives selected to meet requirements of the college of veterinary medicine to be entered

Combined curricula

Arts-education curriculum

205 Administration Building, 372-2015

The student who desires to take an arts and sciences degree to qualify for licensure to teach in the public schools may take work in education after graduation or qualify for the combined degree option outlined here. On the basis of the accumulative grade point average, a student may register in both the College of Education and Human Development and the College of Arts and Sciences for the combined degree as soon as eligible. The student in the dual-degree option leading to the bachelor of arts or bachelor of science degree from the College of Arts and Sciences and the bachelor of science in education degree from the College of Education and Human Development must:

1. Secure permission of the deans of both colleges before the end of the junior year;
2. Complete the requirements of both colleges for the degrees sought;
3. Earn at least 142 hours including education courses.

By careful selection of electives, the program in both colleges can be completed in nine semesters.

Intracollege curricula and dual degrees

The student who wishes to earn a second degree within the College of Arts and Sciences may do so by completing work after graduation or finishing the dual-degree program prior to graduation. The following additional requirements must be completed:

1. Secure permission from the dean of the College of Arts and Sciences;
2. Complete the requirements for a major and minor in each degree independently. The courses counted toward a major and minor (or concentration) for the first degree cannot apply toward the major or minor of the second degree;
3. Complete at least 32 hours minimum of credit beyond the hours required for a single degree major.

Licensure to teach in the public schools

365 Education Building, 372-7372

A student holding a bachelor’s degree in arts and sciences who wishes to become licensed to teach in the public schools of Ohio should contact the Office of Undergraduate Student Services in the College of Education and Human Development, 365 Education Building. Both specified coursework and satisfactory completion of the state-prescribed examinations are required.

Combined baccalaureate-master’s program in chemistry

110 Hayes Hall, 372-2031
205 Administration Building, 372-2015

The combined baccalaureate-master’s program in chemistry offers students the opportunity to complete the bachelor of science degree in three years and the master of science degree at the end of the fourth. By completing the two degrees in four years, the student may be better prepared to earn the Ph.D. degree because of the stronger background. In addition, a preprofessional student may elect either to complete the three-year bachelor of science program and go directly to professional school or to continue on to earn the master of science degree in preparation for a research-oriented career.

The program is structured on a schedule of four years, including summers. Courses should be carefully chosen so that major and group requirements will be completed on time.

Major and minor requirements:

(Alphabetical list of programs)

Africana Studies

15 Williams Hall, 372-8120

The Africana studies minor is multidisciplinary, drawing courses from numerous departments, schools and colleges across the University. Also international in scope, it offers courses that investigate the historical, artistic, cultural and political aspects of people of African descent throughout the world. This minor is designed to strengthen students' liberal arts background while preparing them to cope with a world of increasing racial and cultural diversity. The minor consists of 21 hours with two required courses; five additional electives are required. At least 15 hours must be courses at the 300 level or higher, and these must be selected from at least three departments. Refer to the BGSU Schedule of Classes for course listings. Other Africana studies offerings include summer/spring workshops in Ghana (musical art), Burkina Faso (romance languages) and Republic of Benin (history).

Minor only (21 hours)

Required courses

- ETHN 120 (3) and HIST 315 (3)

Five courses from (15 hours):

- ARTH 495* (1-3)
- ETHN 220 (3), 300* (3), 320 (3), 321 (3), 480* (3)
- GEOG 347 (3)
- HIST 314 (3), 315 (3), 413 (3), 432 (3)
- HDFS 107 (3)
- MUCH 112 (2), 233 (2), 237 (3), 431 (3)
- POLS 325 (3)
- POPC 170 (3)
- ROM 262 (3)
- THEA 350 (3)

*Only when offered on Africana studies topics.

Courses are periodically added to the minor. Please consult the director of Africana studies for current information about the Africana studies major proposed to begin Fall 2001.

American Culture Studies

101 East Hall, 372-8886

Learning Outcomes

Upon completion of the baccalaureate degree, students in American cultural studies are expected to:

- Think in an interdisciplinary way, drawing on holistic, critical and connective models of analysis;
- Communicate orally and in writing about the cultural contexts of human expression and behavior;
- Discuss the multicultural and pluralistic nature of American culture and the diversity of our national cultural heritage;
• Investigate relationships among theories of culture and various cultural traditions.

Major, Bachelor of Arts—minor required (36 hours)
An interdisciplinary program dedicated to the holistic study of American culture, society and institutions, American culture studies offers individualized programs which focus on the American experience. American culture studies courses develop the skills and methods appropriate to cultural studies and serve to integrate the substance of other disciplines into coherent patterns reflecting the complexity of American life and our national heritage. The director of American culture studies and the undergraduate adviser help students design programs using courses in the humanities and social sciences suited to their needs and interests within the general requirements of the program and the college.

The program requires a minimum of 36 hours, including the following:

ACS 200, 400 (6)
ACS 230, 250 or 300 (3)
HIST 205, 206 (6)
Emphasis area (21)

Emphasis areas include American Thought and Expression, American Society and Institutions, Comparative Cultures, Culture and Community or Society and Change. Each of these areas allows the student to work across departmental lines to develop a program that is interdisciplinary in approach while focused in purpose. Within each area, students have the opportunity to design a program (in consultation with the undergraduate adviser) uniquely suited to individual needs and interests. Of the 21 hours in the chosen area, at least two departments must be represented and no more than nine hours in a single discipline may be counted toward fulfillment of this requirement; 15 of the 21 hours must be upper division.

Minor (21 hours)
HIST 205, 206 (6)
ACS 200, 400 (6)
Courses outside the major selected in consultation with the American culture studies adviser (9)

*Art
1000 Fine Arts Center, 372-2786

The School of Art offers a bachelor of arts degree. A minor is required for this degree. Revisions are currently being made to the curricular requirements for the B.A. degree. Approved changes should be in place with the Fall 2001 semester. A student should consult with an adviser for guidance in selecting courses.

Learning Outcomes
Upon completion of the baccalaureate degree, students in fine arts are expected to:

• Examine the relationship and influence of the visual arts in an historical and cultural context;
• Recognize and evaluate critical and aesthetic issues within the history of art and contemporary studio practice;
• Apply aesthetic judgement, perceptual sensitivity and critical thinking skills to arts related issues and environments in daily life;
• Demonstrate mastery of specific technical, conceptual and critical abilities within studio media;
• Communicate effectively, in both written and oral formats, on research and creative issues;
• Work cooperatively and individually with an understanding of the professional practices maintained in the studio arts, the fields of art history or art education.

Major, Bachelor of Arts—minor required (42 hours)
First year (12 hours)
ART 102, 103, 112 (9)
ARTH 145 (3)
Second year (12 hours)
ART 205, 291 (6)
ARTH 146 (3)
ART/ARD/ARTH elective (3)

Third and fourth years (18 hours)
Two from three-dimensional studio area; (6)
Three from two-dimensional studio area; (9)
ARTH 4XX (3)

Minor, (Art) Bachelor of Arts (21 hours)
First year (12 hours)
ART 102, 103, 112 (9)
ARTH 145 (3)
Second year (6 hours)
ARTH 146 (3)
Art elective (3)

Third and fourth years (3 hours)
Art elective (3)

Art History
Major, Bachelor of Arts—minor required (42 hours)
ART 102 (3)
ARTH 145, 146 (6)
Studio elective (3)
ARTH 441 or 442 (3)
ARTH 445, 446 or 447 (3)
ARTH 456, 457 (3)
ARTH 458, 459 or 461 (3)
At least two courses from each of the following groups:
ARTH 448, 449, 453 (6)
ARTH 451, 454, 455 (6)

Minor, Art History (21 hours)
Bachelor of Arts
ART 102 (3)
ARTH 145, 146 (6)
Art history electives (12)

Major, Bachelor of Fine Arts
The School of Art offers studio majors in the areas of two-dimensional studies and three-dimensional studies, and specializations in computer art and design. The majors in two-dimensional studies and three-dimensional studies require completion of the art foundation courses, 34 hours within specialization, 18 hours of studio support, 12 hours of art history and 6 or more electives from with the school or college. The specialization in computer art requires completion of art foundation courses, pre-major review, 30 hours in specialization, 21 hours studio support, 12 hours in art history and 6 or more electives from with the school or college. A student should consult each semester with their B.F.A. adviser in the School of Art concerning progress and course sequence.

Two-dimensional studies
Foundations—(10)
UNIV 101, ART 102, 103, 112
Art history—(12)
ARTH 145, 146,
Two 400-level ARTH electives (12)
Studio specialization—(19)
Select three from:
ARTS 211, 221, 231, 241
In addition to:
ARTS 305, 400, 409 and BFA senior studio
Two-dimensional studio support (15)
Intermediate or advanced courses in two-dimensional studies
Studio art support (18)
Two courses must be 300- or 400-level in:
ARTS, ARTC, ARTD or ART 489
Electives (9) academic
Outside the School of Art
Electives (6)
Within the School of Art or college

Areas in two-dimensional studies (34 hours)
Drawing: ARTS 211, 312, 313, 314, 414, 418
Painting: ARTS 221, 322, 323, 424, 428
Photography: ARTS 241, 342, 343, 444, 448
Printmaking: ARTS 231, 332, 333, 334, 435, 438
Mixed media: ARTS 305
Two-dimensional special topics: ARTS 400
Internship: ARTS 489

Three-dimensional studies
Foundations—(10)
UNIV 101, ART 102, 103, 112
Art history—(12)
ARTH 145, 146,
Two 400-level ARTH electives
Studio specialization—(16)
College of Arts and Sciences

Design studies
Foundations—(10)
UNIV 101, ART 102, 103, 112
Art history—(12)
ARTH 145, 146
Two 400-level ARTH electives
Graphic design specialization—(27)
ARTD 201, 202 (pre-major)
*Portfolio Review (after ARTD 202)
ARTD 301, 302, 303, 401, 402, 403, 408
Studio art support—(24)
Three courses must be 300- or 400-level in ARTS, ARTC, ARTD or ART 489
Electives—(6) academic
Outside the School of Art
Electives—(6)
Within the School of Art or college

*Students may become pre-graphic design candidates at any time during their academic program. Following art foundations (UNIV 101, ART 102, 103, 112), pre-majors will take ARTD 201 and 202. At the conclusion of the ARTD 202 course, all pre-graphic design candidates will take part in the Design Portfolio Review process (scheduled each semester) in order to be admitted into the graphic design specialization. Accepted students then continue with the necessary course requirements to complete the B.F.A. degree in graphic design. All transfer students will be designated as pre-graphic design candidates and must complete the portfolio review to be accepted into the design specialization.

Support courses (21)
To be chosen in consultation with a graphic design adviser.

Computer Art
Foundations—(10)
UNIV 101, ART 102, 103, 112
Art history—(12)
ARTH 145, 146
Two 400-level ARTH electives
Computer art specialization—(30)
ARTC 201, 311, 312
*Portfolio Review (after ARTC 201 during ARTC 311 or 321)
ARTC 312, 321, 400, 409
Choose three hours from:
ARTC 413, 423, 433
Choose six additional hours from:
ARTC 413, 423, 433, 400
Studio art support—(21)
Two courses must be 300- or 400-level in ARTS, ARTC, ARTD or ARTC 489
ARTS 211 is required
Electives—(9) academic
Outside the School of Art
Electives—(6)
Within the School of Art or college

*Students interested in entering the computer art specialization will be designated as pre-computer candidates and must complete the computer art portfolio review to be admitted into the computer art specialization. Following art foundations (UNIV 101, ART 102, 103, 112), pre-majors will take ARTD 201. During either ARTC 311 or 312 all pre-computer art candidates will take part in the Computer Art Portfolio Review Process in order to be admitted into the computer art specialization. Accepted students then continue with the necessary course requirements to complete the B.F.A. degree with a specialization in computer art. All transfer students will be designated as pre-computer art candidates and must complete the portfolio review to be accepted into the computer art specialization.

Teacher preparation
The teacher preparation program is available as a combined arts and sciences/education curriculum which leads to the bachelor of fine arts degree with licensure to teach in the public schools. It offers in-depth experiences in the studio component of the art education specialization. Students in the B.F.A. program may qualify for teacher licensure through successful completion of the teacher education licensure requirements. This option requires an additional semester to complete.

Students who follows this curriculum register in both the College of Arts and Sciences and the College of Education and Human Development. Students should consult each semester with the B.F.A. teacher preparatory adviser in the School of Art concerning progress and course sequence.

The following courses are required for teacher licensure:
ARTE 282, 352, 452, 407 and 492 / 497
EDHD 201, ARTE 382 or EDSE 311, EDAS 409, EDFI 408
IPC 102, math elective
SOC 101*, PSYC 201*, EDFI 302*, POPC elective*, PHIL 204**

*Group IV social science requirement
**Group V humanities requirement

This licensure option is currently under review. Please contact the School of Art for additional information.

Related degree programs
The school also offers a bachelor of science degree in visual arts education in conjunction with the College of Education and Human Development (see p. 88). The bachelor of science degree in art therapy through the College of Health and Human Services is being phased out. No new students will be accepted into that program. Classes in art therapy will continue to be offered in the School of Art through Spring 2002.

Asian Studies

The following courses are required for teacher licensure:
ARTE 282, 352, 452, 407 and 492 / 497
EDHD 201, ARTE 382 or EDSE 311, EDAS 409, EDFI 408
IPC 102, math elective
SOC 101*, PSYC 201*, EDFI 302*, POPC elective*, PHIL 204**

*Group IV social science requirement
**Group V humanities requirement

This licensure option is currently under review. Please contact the School of Art for additional information.

Related degree programs
The school also offers a bachelor of science degree in visual arts education in conjunction with the College of Education and Human Development (see p. 88). The bachelor of science degree in art therapy through the College of Health and Human Services is being phased out. No new students will be accepted into that program. Classes in art therapy will continue to be offered in the School of Art through Spring 2002.

Asian Studies

142 Williams Hall, 372-7597

Learning Outcomes
Upon completion of the baccalaureate degree, students in Asian studies are expected to:
• Know historical, cultural, economic, political and social developments of selected countries in east Asia (China, Korea, Japan, Vietnam), south Asia (India, Nepal) and southeast Asia (Philippines, Indonesia); recognize the diversity of Asia, and identify basic practices and theories of major Asian beliefs and institutions;
• Demonstrate an advanced level of understanding of a chosen Asian country;
• Develop a specialized knowledge of the United States as a major pacific nation and cultivate their sense of identity with Asia;
• Choose at least one discipline (political science, geography, history, philosophy) and gain special skills unique to that discipline, for example methodology, critical thinking, information gathering or analysis;
• Demonstrate a college-level language fluency in speaking, reading and writing in at least one Asian language (Japanese, Chinese, Korean).

Major, Bachelor of Arts—minor required (36 hours)
The Asian studies program offers an interdisciplinary curriculum of studies on Asia. Students complete a minimum of 36 credit hours from the list of the core courses and the elective courses.
Astronomy

Minor only

104 Overman Hall, 372-2421

This program is intended for students with an avocational interest in astronomy. Students planning a career in astronomy should major in physics and choose astronomy courses as electives.

Other programs

A program in astronomy also is offered by the College of Education and Human Development (see p. 88).

Biological Sciences

217 Life Sciences, 372-2332

Learning Outcomes

Upon completion of the baccalaureate degree, students in biological sciences are expected to:

- Understand the scientific process as shown in designing and implementing experiments;
- Evaluate evidence and differentiate between scientific fact and unscientific arguments;
- Present scientific information in appropriate oral and written formats to scientific and nonscientific audiences;
- Understand the basic principles of living systems as shown by reading and comprehending primary research literature in the biological sciences;
- Apply knowledge of biology to address a wide variety of needs and problems, locally and globally.

Major, Bachelor of Science—minor required (32 hours)

First and second years

BIOL 204 and 205, 350 (13)

CHEM 125, 127, 128 (10)

BIOL courses as required for the student's program

Third and fourth years

One course in organic chemistry (CHEM 306 or 341 and 342) (4-10) (At least one course in biochemistry is strongly recommended.)

MATH through 131 or 134 and 135 (6) (prerequisite to STAT 211 and 212, but mathematics hours not included in major)

PHYS 201 (5)

A minimum of 10 hours at the 400 level and 9 additional hours electives in BIOL.

At least one course in each of the following groups:

Group 1—Biology of organisms

BIOL 313, 331, 332, 343, 404, 405, 406, 413, 414, 424, 426, 427, 434, 435, 472, 473, 474, 476, 477

Group 2—Ecology, evolution & behavior

BIOL 325, 354, 412, 420, 422, 425, 449, 451

Group 3—Cell, molecular & regulatory biology

BIOL 407, 408, 411, 417, 421, 431, 438, 439, 442, 443, 446, 447

Minor (20 hours)

First and second years

BIOL 204, 205 (10)

CHEM 125, 127, 128 or equivalent (10)

Third and fourth years

Electives in BIOL (10)

Business, General Studies in

205 Administration Building, 372-2015

Learning Outcomes

Upon completion of the baccalaureate degree, students in general studies in business are expected to:

- Demonstrate knowledge of basic business systems, settings and concepts;
- Develop and use problem solving, critical thinking, communication and leadership skills;
- Appreciate diversity issues and work effectively with persons of diverse groups;
- Adapt to the job market within a given business or corporations.

Major, Bachelor of Arts—minor required (36 hours)

MATH 126 (5) or 131 (5) or 134 and 135 (6) (prerequisite to STAT 211 and 212, but mathematics hours not included in major)

ECON 202, 203 (6)

MIS 301 (3)

ACCT 221, 222 (6)

FIN 301 (3)

EGTM 300 (3)

EGTM 360 (6)

EGTM 500 (3)

French

Minor only

253 Business Administration, 372-2457

A minor in broadcast meteorology is available to journalism and telecommunications majors.

Minor only (21 hours)

EGEO 125, 213, 303, 400, 404 (15)

EGEO 122 or 342 (3)

EGEO 455, 457 or 490 (3)

Canadian Studies

253 Business Administration, 372-2457

Minor only (21 hours)

This minor is designed to provide students with an interdisciplinary program of study focusing on Canada. It is intended to be used in conjunction with virtually any major which would be complemented by an intensive, yet broad, examination of Canadian society and culture.

The program consists of 21 credit hours planned in consultation with the director of Canadian studies. At least three departments are to be represented. The study of French is encouraged as part of the program. CAST 201-Introduction to Canadian Studies is
required of all students in the program. This course takes a comparative approach contrasting Canada to the United States on topics which include: history, geography, political systems, economy, literature, art and popular culture. The remaining 18 credit hours are to be selected from among the following courses:

- CAST 305 (3)
- ENG 269 (3)
- ENVS 412 (3)
- FIN 410 (3)
- GEOG 342 (3)
- HIST 319 (3), 414 (3)
- POLS 400* (3)

*Course can be used for undergraduate minor when Canadian topic is the subject of the course.

**Chemistry**

141 Overman Hall, 372-2031

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in chemistry are expected to:

- Demonstrate ability to critically analyze experimental results, including those using models, logical, mathematical, and computational techniques to effectively plan projects and critically analyze experimental results;
- Personally carry out laboratory procedures and develop modern laboratory skills, including proficiency in basic techniques and experience with a wide range of laboratory instruments;
- Critically read, imagine and interpret literature on the ancient world; and the scope of modern chemistry including newly evolving fields;
- Develop strong problem solving skills, including newly evolving fields;
- Demonstrate critical professional and personal skills, including independent thinking, communication skills, the ability to work effectively within groups, and a commitment towards continuous learning.

**Major, Bachelor of Science**—minor required (32 hours)

A student majoring in chemistry may follow several programs of study depending upon career aspirations. All chemistry majors must complete the following courses:

- CHEM 125, 127, 128, 201(13) or 135, 137, 138 (10)
- CHEM 341, 342 (10)
- CHEM 454, 407 (5) or 321 (3)
- CHEM 405 (4) or 352 (3)
- CHEM 405, 406, 407, 408 (full sequence preferred)
- PHYS 211, 212 or 201, 202 (10)
- PHYS 211, 212 is preferred and should be completed by the end of the second year)
- MATH 131 (5), 232 (5) (should generally be completed by the end of the second year)
- MATH 233 and 337 or 332 (6) (required in the more rigorous program)

PHYS 401 (may be substituted for MATH 233, 332)

CHEM 313, 395, 413 and 483 may not be counted in the required hours towards the major

The following program meets American Chemical Society (ACS) professional training standards and is the recommended course of study for students who plan professional careers in chemistry.

**First year**

- CHEM 125, 127, 128 (10) or 135, 137, 138 (10)
- MATH 131 (5), 232 (5)

**Second year**

- CHEM 341, 342 (10)
- CHEM 201 (3) (For those having taken 128)
- PHYS 211, 212 (10)

**Third year**

- CHEM 405, 406, 407, 408 (12)
- CHEM 413 is highly recommended
- PHYS 401 or MATH 233, 332

**Fourth year**

- CHEM 445 (3)
- CHEM 454 (3)
- CHEM 463 (3)

One additional 400-level CHEM lecture course and two credit hours of additional advanced laboratory. CHEM 446 (1) and 413 (1-5) are normally used in meeting the laboratory requirement.

A biochemistry option is available that meets American Chemical Society certification requirements. This program provides excellent preparation for graduate study in biochemistry or molecular biology. This differs from the program above in several ways:

- CHEM 445, 446, 447 are required
- BIOI 204, 205, 313, 350 and 411 or 439 are required
- MATH 131, 232 are required
- Additional 400-level chemistry electives are not required

An alternative course of study for premedical students and others who wish to follow a more broadly based program of study is presented below. It also provides a background suitable for some professional chemical careers.

**First year**

- CHEM 125, 127, 128 (10) or 135, 137, 138 (10)
- MATH 131 (5)

**Second year**

- CHEM 341, 342 (10)
- CHEM 201 (3) (For those having taken 128)
- PHYS 211, 212 (10)

**Third and fourth years**

- CHEM 352 (3) or 405 (4)
- CHEM 321 (3) or 454 (3) and 407 (2)

Additional CHEM courses to a minimum of 32 hours; at least one CHEM course must be 400 level. CHEM 313, 395, 413 or 483 may not be counted towards the 32-hour minimum or as the required 400-level course.

**Biochemistry specialization**

A biochemistry specialization is also possible under this plan; it provides excellent preparation for medical schools and other health related professions.

CHEM 445, 446 and 447 are required

If BIOI 204, 205, 313, 350 and 411 or 439 are required

CHEM 413 is strongly recommended

**Minor** (20 hours)

- CHEM 125, 127, 128 (10) or 135, 137, 138 (10)
- CHEM 341, 342 (10) or 306 (3)

Additional CHEM electives to a minimum of 20 hours; CHEM 201, 308, 309 are recommended for students who take 306. CHEM 313, 395, 413 and 483 may not be counted toward the minor

**Other programs**

Programs in chemistry also are offered by the College of Education and Human Development (see p. 85, 96).

Note: Students who take two courses in any one of the following groups will not receive graduation credit for both:

- CHEM 120, 109, 125, 135
- CHEM 117, 127, 137
- CHEM 117, 306, 341
- CHEM 117, 308, 445
- CHEM 118, 128, 138
- CHEM 118, 309, 446
- CHEM 321, 454
- CHEM 352, 405

**Classical Civilization**

208 Shatzel Hall, 372-2667

Classical civilization is an interdisciplinary curriculum designed to acquaint students with classical antiquity and the cultural foundations of the Western world. It does not require intensive language training of the Latin major or minor. This major or minor is designed to help prepare students for careers in areas as diverse as archeology, business, government service, law, ministry, museum curatorship, public relations, writing and others.

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in classical civilization are expected to:

- Critically read, imagine and interpret Greek and Roman literature in English translation;
- Demonstrate competence in at least two aspects of classical antiquity, such as history, philosophy, art or literature;
- Apply the question—how do we know what we know—when imagining ancient texts and cultures and in evaluating issues of current concern;
- Demonstrate ability to critique secondary literature on the ancient world;
• Use resources available for study of the ancient world in articulating the influence and relevance that antiquity has for us today;
• Communicate logically and effectively both orally and in writing.

Major, Bachelor of Arts—minor required (30 hours)
CLCV 380, 381, 485, 486 required
6 electives chosen from (although not required, LAT and GRK courses highly recommended):
ARTH 445, 446, 447, 448 (3)
HIST 304, 401, 441 or 442 (3)
PHIL 211 (3)
Any other CLCV course
GRK 101-202, unless used to fulfill foreign language requirement
LAT 101-202, unless used to fulfill foreign language requirement
Any GRK course beyond 202
Any LAT course beyond 202

Minor (21 hours)
Choose any of the above courses.

*Computer Science
221 Hayes Hall, 372-2337

The rapid advances in computer technology in today’s highly technological society have resulted in a continuing demand for computer science graduates. The computer science professional applies the basic principles of computing and the latest technological advancements to solve problems in business, education and government. Graduates may work as systems analysts who design solutions to specific problems, applications programmers who translate these solutions into programming languages or technical support professionals who resolve a wide range of problems related to computer applications and use. Other job possibilities are system administrators, computer network administrators or systems programmers.

Learning Outcomes
Upon completion of the baccalaureate degree, students in computer science are expected to:
• Program in a higher-level language;
• Work effectively with a client and members of a software development team to analyze, specify, design, implement, test and document software that meets the client’s needs;
• Acquire new computer-related skills independently as technologies evolve;
• Communicate technical concepts to non-technical persons, both orally and in writing;
• Develop a plan to integrate hardware and software into a particular environment;
• Conduct themselves in an ethical and professional manner.

Major, Bachelor of Arts—minor required (30 hours)
CS 205, 215, 217, 324, 325, 327, 335 (21)
Three CS electives at the 400 level, excluding CS 490 (9)
An approved societal impact course (see department for list) (3)
MATH 134-135 (6) or 131 (5) or 126 (5)
MATH 222 or 322 (3)
MATH 247 or 313 (3) or STAT 211-212 (6)
Transfer courses included in the major carry a maximum of three hours of credit per course.
Students with a minor or joint major in MATH need not complete the listed MATH courses.

Minor (18 hours)
CS 205, 215 (6)
CS electives at the 200 level or above (12)

Major, Bachelor of Science—minor required (30 hours)
CS 205, 215, 217, 324, 325, 327, 335 (21)
Three CS electives at the 400 level, excluding CS 490 (9)
An approved societal impact course (see department for list) (3)
MATH 134-135 (6) or 131 (5)
MATH 222 or 322 (3)
MATH 247 or 313 (3) or STAT 211-212 (6)
Transfer courses included in the major carry a maximum of three hours of credit per course.
Students with a minor or joint major in MATH need not complete the listed MATH courses.

Business systems specialization
A student interested in the application of computer science to business systems may take ECON 202 and 203 as part of the Group IV requirement and may choose electives such as ACCT 221 and 222; FIN 300; MATH 226; MGMT 300 or 305 and MKT 300. See the department of computer science for details.

Minor (18 hours)
CS 205, 215 (6)
CS electives at the 200 level or above (12)
Transfer courses included in the minor carry a maximum of three hours of credit per course.
Students with a minor or joint major in MATH need not complete the listed MATH courses.

Creative Writing
226 East Hall, 372-8370

Enrollment in the creative writing major is dependent upon an ACT score of 22 or higher in reading, or consent of the creative writing staff. To continue on into the 300- and 400-level workshops classes, successful completion of a portfolio and interview are required. A creative writing major must produce a senior thesis and give a senior reading of the thesis work.

Learning Outcomes
Upon completion of the baccalaureate degree, students in creative writing are expected to:
• Use writing effectively—including current modes and evolving techniques and technologies—to explore subject matter and to communicate;
• Develop understanding of subject matter in relation to larger historical and/or cultural contexts, including multicultural contexts;
• Make connections between theory and practice. Students apply theory to understand texts, solve problems and teach effectively. Students generalize from experiences with texts, communication situations and teaching situations;
• Develop skills of creative and/or critical thinking.

Major, Bachelor of Fine Arts—minor required (42 hours)
ENG 099 (0) taken every semester
ENG 205, 206 (6)
ENG 208, 209 (6)
ENG 261 or 262 (3)
ENG 290 (3)
ENG 312 and/or 313 (6)
ENG 412 and/or 413 (6)
ENG 320, 323, 330, 333 (12)

Minor (21 hours)
ENG 099 (0) taken every semester
ENG 205 or 206 (3)
ENG 208, 209 (6)
ENG 312 or 313 (3)
ENG 412 or 413 (3)
ENG 320 or 323 (3)
ENG 330 or 333 (3)

Economics
3002 Business Administration, 372-2646

Economics focuses on how people choose to use resources when faced with competing uses for them. The analysis can be directed to individuals and how time and income are spent on society and how it allocates scarce resources. For society, issues of unemployment, inflation and growth are also focal points of the analysis. Economics majors gain strong analytical skills and the ability to critically evaluate alternatives. Communication skills are also stressed. These skills translate into entry-level positions in business or provide a foundation for law school, an M.B.A. or graduate school. The department also offers a master of arts in economics.
Learning Outcomes
Upon completion of the baccalaureate degree, students in economics are expected to:
• Demonstrate a command of basic characteristics of the American and global economy by using this knowledge to critically evaluate economic outcomes;
• Demonstrate a command of basic economic theory by using this theory to make predictions and to analyze alternative economic policy options;
• Demonstrate the ability to communicate in both oral and written forms by presenting arguments and evidence clearly and concisely;
• Demonstrate the ability to engage in and understand moral reasoning with respect to economic issues by recognizing the implicit value conflicts present in all economic policy debates;
• Demonstrate the ability to engage in problem solving using basic economic theory;
• Demonstrate the ability to engage in critical thinking as a part of the analysis of economic problems.

Major, Bachelor of Arts—minor required (36 hours)
First year
MATH 120 (3) or 128 (5) or higher
Students considering graduate degrees in economics should take MATH 126 or 131.
Second year
STAT 200 (3) or higher, or PSYC 270 (4) or SOC 369 (3) (Not included in the 33 hours necessary for an economics major.) STAT 200 is recommended. Equivalent statistics may be accepted with the approval of the adviser.
ECON 202, 203 (6)
Third year
ECON 301 or 302, 303, 473 (9)
Fourth year
ECON electives (15)*

All economics majors must satisfy a written and oral communications requirement in economics. Certification by an economics faculty member is required. Details are available in the department office.

Minor (21 hours)
Second year
ECON 202, 203 (6)
Third year
ECON electives (6)
Fourth year
ECON electives (9)

If the college of the student’s major does not allow the same course to be counted for both the major and the minor, the number of remaining hours for the minor must be at least 21 in Economics.

*ECON 200 does not count in the major or minor.

Other programs
Programs in economics also are offered by the College of Business Administration (see p. 77, 82, 83).

English
212 East Hall 372-2576
Learning Outcomes
Upon completion of the baccalaureate degree, students in English are expected to:
• Use writing effectively—including current modes and evolving techniques and technologies—to explore subject matter and to communicate;
• Develop understanding of subject matter in relation to larger historical and/or cultural contexts, including multicultural contexts;
• Make connections between theory and practice. Students apply theory to understand texts, solve problems and teach effectively, and/or students generalize from experiences with texts, communication situations and teaching situations;
• Develop skills of creative and/or critical thinking.

Major, Bachelor of Arts—minor required (39 hours beyond ENG 112)
First year
ENG 111, 112 (University requirement; prerequisite for all major/minor courses)
Second year (15)
ENG 201 (3)
ENG 202 (3)
ENG 264, 265, 268 (9)
Third year (12)
ENG 261 or 262 (3)
ENG 310, 311 or 314 (3)
Two 300-/400-level electives (6)
Fourth year (12)
Three 300-/400-level electives (9)
ENG 498 or 499 (3)

Special studies option
English majors with specific career goals such as commercial or technical writing, legal studies or linguistics may, with the approval of the English adviser, substitute two relevant ENG courses for two required courses (not 498 or 499). Minor (21 hours)
Second year (6)
ENG 201 (3)
ENG 202 (3)
Third year (9)
ENG 264, 265, 268 (9)
Fourth year (6)
ENG 261 or 262 (3)
ENG 310, 311 or 314 (3)

Other programs
The College of Arts and Sciences also offers the bachelor of fine arts degree with a major in creative writing (see p. 59) and the bachelor of arts and bachelor of science degrees in scientific and technical communication (see p. 69). Programs in English also are offered by the College of Education and Human Development (see p. 92).

Environmental Policy and Analysis
153 College Park, 372-8207
Learning Outcomes
Upon completion of the baccalaureate degree, students in environmental policy are expected to:
• Understand basic characteristics of ecosystems and environmental problems and identify, investigate and propose solutions to environmental issues as informed by an interdisciplinary background in the social sciences and humanities;
• Critically evaluate policies and practices that address environmental problems and ascertain the interrelationships and interactions among environmental problems, their locations, the cultural and social contexts, and their solutions;
• Engage in rational, civil discourse about complex environmental issues in a manner that considers all viewpoints;
• Participate in practical, experience-based learning through internships, field experiences, workshops and independent research projects;
• Communicate effectively in written and oral forms;
• Gain facility with technologies and tools used in environmental analysis such as geographic information systems, global positioning systems, statistical analysis and remotely sensed images.

Major, Bachelor of Arts—no minor required (83–93 hours)
This program emphasizes the multidisciplinary nature of environmental issues and the role of the social sciences in addressing and solving environmental problems. Students receive a basic understanding of the social sciences and humanities, particularly political science, history and philosophy. Additional courses in the natural sciences and mathematics are included to help the student obtain a holistic view and understanding of the overall context in which environmental issues are placed. Each student also takes courses in an individually planned area of emphasis designed to prepare for a career field. Close consultation with advisers in the Center for Environmental Programs is essential.

Required courses
ENVS 101 or 201, 301, 401, 402 (12)
BIOL 204 (5)
CS 100 or 101 (3)
ECON 200, 202 or 335 (3)
ENG 207 or 388 (3)
IPC 205, 209 or 306 (3)
LEGS 431 (3)
Statistics: MATH 115 or 247; or PSYC 270; or SOC 369; or STAT 200 or 211 and 212 (3-6)
**Ethnic Studies**

228 Shatzel Hall, 372-2796

The ethnic studies interdisciplinary major explores the socioeconomic and historical forces that have shaped the development of ethnic and racial minority groups in the United States. Focusing on immigration, slavery and colonial conquest, among other social and historical processes that combined to create in the U.S. a nation of nations, ethnic studies examines population groups in their geopolitical and diasporic contexts, in their relationship to each other and within the formation of the U.S. as a global power.

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in ethnic studies are expected to:

- Comprehend how ethnic identities and cultural and geographical spaces are constructed, negotiated or contested over time;
- Employ diverse analytical resources, case studies and comparative modes of study as critical cognitive tools to address issues of difference and conflict;
- Articulate general principles that shape ethnic relations and their intersections with gender, sexuality and class in structural contexts of power;
- Draw larger theoretical lessons from comparisons among ethnic groups in the U.S. and in other diasporic sites;
- Effectively communicate and address issues of race and ethnicity, especially in multicultural environments.

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**Required courses**

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<th>Course</th>
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<tbody>
<tr>
<td>ENVS 101 or 201, 301, 402 (9)</td>
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<tr>
<td>BIOL 204, 205 (10)</td>
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<tr>
<td>CHEM 125, 127, 128 (10)</td>
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<tr>
<td>CS 100 or 101 (3)</td>
</tr>
<tr>
<td>ECON 200, 202 or 335 (3)</td>
</tr>
<tr>
<td>ENG 207 or 388 (3)</td>
</tr>
<tr>
<td>GEOL 104 (4)</td>
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<tr>
<td>IPC 205, 209 or 306 (3)</td>
</tr>
<tr>
<td>MATH 131 or 134 and 135 (5-6)</td>
</tr>
<tr>
<td>ACS 338 or HIST 338 (3)</td>
</tr>
</tbody>
</table>

Statistics: MATH 115 or 247; or PSYC 270; or SOC 369; or STAT 200 or 211 and 212 (3-6)

Two courses from: PHYS 201 or 211, 202 or 212, 360; or CHEM 306 and one PHYS course (7-10)

Four courses from the following; no more than two courses in any one area:

- BIOL 301, 354, 409; CHEM 306*; ECON 332, 335*; EDFI 416; ENVH 201H, 306; ENVR 421; ENVS 415; GEOG 321, 325, 331, 333, 337, 426, 457; GEOL 302, 304, 322; HIST 306, 319; PHYS 360*; POLS 331, 335, 345; PSYC 440 (environmental issues only); RTD 304; SOC 312, 414, 418 (*may not be taken to fulfill any other program requirement)

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**Minor (31-32 hours)**

**First and second years**

One course each from BIOL and GEOG or GEOL (6-8)

ENVS 101 or 201 (3)

**Third and fourth years**

Select two from: ENVS 301, 400, 401, 402, 403, 412, 493, 495 (6)

Select two from: POLS 331, 336, 345; LEGS 431 (6)

Select one from: PHIL 332; SOC 312; GEOG 321, 325, 331 (3)

Select one from: ACS 338; HIST 338 (3)

**Other programs**

A program in environmental health is offered by the College of Health and Human Services (see p. 116). Students should contact the Center for Environmental Programs, 372-8207, for help in selecting the program that most closely meets their career goals.

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**Environmental Science**

153 College Park, 372-8207

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in environmental science are expected to:

- Understand basic characteristics of ecosystems and environmental problems and be able to identify, investigate and propose solutions to environmental issues as informed by an interdisciplinary background in the natural sciences;
- Understand the interrelationships between environmental problems and human societies and cultures;
- Engage in rational, civil discourse about complex environmental issues in a manner that considers all viewpoints;
- Participate in practical, experience-based learning through internships, field experiences, workshops and independent research projects;
- Communicate effectively in written and oral forms;
- Gain facility with technologies and tools used in environmental analysis such as geographic information systems, global positioning systems, statistical analysis and remotely sensed images.

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Fifteen hours or more including ENVS 489 Internship or ENVS 470 Independent Study (1-4) must be taken in an area of emphasis planned by the student with faculty members and academic advisers to reflect the student's career goals. Students should file an approved course list no later than the end of the junior year.

**Minor (27-30 hours)**

**First and second years**

One course each from BIOL and GEOG or GEOL (6-8)

ENVS 101 or 201 (3)

**Third and fourth years**

Select two from: ENVS 301, 400, 401, 402, 403, 412, 493, 495 (6)

Select two from: POLS 331, 336, 345; LEGS 431 (6)

Select one from: PHIL 332; SOC 312; GEOG 321, 325, 331 (3)

Select one from: ACS 338; HIST 338 (3)

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Programs is essential.

Select two from: PHYS 201 or 211, 202 or 212, 360; or CHEM 306 and one PHYS course (7-10)

Four courses from the following; no more than two courses in any one area:

- BIOL 301, 354, 409; CHEM 306*; ECON 332, 335*; ED FI 416; ENVH 201H, 306; ENVR 421; ENVS 415; GEOG 321, 325, 331, 333, 337, 426, 457; GEOL 302, 304, 322; HIST 306, 319; PHYS 360*; POLS 331, 335, 345; PSYC 440 (environmental issues only); RTD 304; SOC 312, 414, 418 (*may not be taken to fulfill any other program requirement)
Major, Bachelor of Arts—minor required (33 hours)
Select one introductory course from:
ETHN 101, 110, 120, 130, 160 (3)
Six courses from:
One from: ETHN 201, 211, 230 (3)
Two from: ETHN 300, 302, 303, 304, 312, 320, 340, 351, 361 (6)
Three from: ETHN 410, 425, 430, 440, 460, 470, 480, 489 (9)
Completion of ETHN 400 and 405 (6)
In consultation with department adviser, two cognate courses from: ECON 250, ECON 323, 440; ENG 310, 424;
ENVS 210; GEOG 325, 335, 346, 426; HIST 310, 311, 314, 315, 319, 326, 381, 411, 413, 432; HDFS 408;
IPC 408; JOUR 455; PHIL 217, 325; POPC 170; SOC 316, 317, 419; SPAN 401; WS 302, among others (6)
Minor (21 hours)
Must include two introductory courses with remainder of courses selected in consultation with the department adviser.

**Film Studies**
303 South Hall, 372-7176

Film studies is an interdisciplinary program designed to provide a general education in film history and criticism, aesthetics and production, as well as specialized study in areas of individual student interest.

The major program consists of 24 hours in the degree core with 15 hours degree track requirement. Total number of required courses in the film studies major is 39 hours. Requirements for a minor in film studies-24 hours required.

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in French are expected to:
- Comprehend, analyze and critically evaluate film as an aesthetic form and cultural text;
- Recognize the cultural and social contexts that shape film genres in various historical periods, including issues of diversity and gender, American national identity and international perspectives;
- Apply critical thinking and aesthetic judgement in creating film criticism in oral and written forms;
- Work collaboratively to solve specific film/video production problems as performer, screen writer and/or director and technician;
- Demonstrate a sense of professionalism through creative and intellectual independence.

**Major, Bachelor of Arts**—no minor required (39 hours)

**Required courses**
POPC 250 (3)
THEA 161 (3)
THEA 262 (3)

All film studies majors must also complete one course in each of the following areas: (see approved lists below for specific course titles)

**Film theory & criticism**—CLCV 388; ENG 200, 251, 385, 485; PHIL 335; POPC 350

**International film perspectives** (Groups 1 & 2)
Group 1: North American and European Film Perspectives—CAST 305; FREN 444, 488; GERM 415; ITAL 261; RUSS 415; SPAN 489; ETHN 460/560; ROML 200; SPAN 489
Group 2: Third World Film Perspectives—ETHN 460/560; ROML 200; SPAN 489

**U.S. minoritarian film perspectives** (Group 3)—ETHN 230, 303, 340; TCOM 270

**Film production** (3)—ART 102, 325, 390; ENG 251; MUCH 436, 444, 445; THEA 241, 244, 245, 341, 443, 449, 463, 466, 469; TCOM 263, 350, 364, 469

In addition, all film majors must also complete a capstone experience (portfolio review, internship, creative project) with a film studies faculty member (1-3 hours). Total of required hours in the core: 24 hours.

In addition to the required core, all students must complete a 15 hour major concentration from one of the following approved lists of courses (film theory & criticism, international and U.S. minoritarian cinema or film production).

**Film theory & criticism** (select five courses from):
CLCV 388; ENG 200, 251, 385, 485; PHIL 335; POPC 350

International & minoritarian film perspectives (select five courses from the following list with at least one from each of the three groups listed below):
Group 1: North American & European film perspectives—CAST 305; FREN 444, 488; GERM 415; ITAL 261; RUSS 415; SPAN 389
Group 2: Third World film perspectives—ETHN 460/560; ROML 200; SPAN 489
Group 3: U.S. minoritarian film perspectives—ETHN 230, 303, 340; TCOM 270

**Film production** (select five courses from):
ART 102, 251, 325, 390; MUCH 436, 444, 445; THEA 241, 244, 245, 341, 443, 449, 463, 466, 469; TCOM 263, 350, 364, 469

Minor (24 hours)
THEA 161 (3)
POPC 250 (3)
THEA 262 (3)
Film course elective (3)

One course from each area:
U.S. minoritarian film perspectives (3)—ETHN 230, 303, 340; TCOM 270
International and minoritarian film perspectives (3)—CAST 305; FREN 444, 488; GERM 415; ITAL 261; RUSS 415; SPAN 489; ETHN 460/560; ROML 200

**Film theory & criticism** (3)—CLCV 388; ENG 200, 251, 385, 485; PHIL 335; POPC 350

**Film production** (3)—ART 102, 325, 390; ENG 251; MUCH 436, 444, 445; THEA 241, 244, 245, 342, 443, 449, 463, 466, 469; TCOM 263, 350, 364, 468

**Folklore and Folklife**
108 Popular Culture, 372-2981

**Minor only** (20 hours)
POPC 220 (3)
Oral folklore such as POPC 320 or 424* (3)
Material or customary folk culture such as POPC 321 or 424* (3)
Regional or distinctive folk group such as POPC 325 (3)
Distinct genre of folklore/folklife such as POPC 424* (3)
Collecting project such as POPC 485 (or other senior seminar as approved by adviser) (2)
Electives in folklore

*No single course given as POPC 424 may be counted in more than one category within the minor. Courses other than those specified above may be chosen in consultation with the program advisor.

**French**
203 Shatzel Hall, 372-2667

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in French are expected to:
- Write, listen and converse proficiently about French and Francophone literary works, movements and genres about the civilizations of France and the Francophone world;
- Master reading comprehension, terminology and basic research tools appropriate to literary and cultural analysis;
- Demonstrate language proficiency through standardized examinations;
- Engage in rational, civil discourse in a manner respectful of others and the cultural diversity of the Francophone world.

**Major, Bachelor of Arts**—27 hours at 300 and 400 level. Minor also required.
FREN 356, 357, 363, 366, 373, 376 (18)
Electives at 400 level (9)

**Minor** (18 hours at 300 level)
FREN 356, 357, 363, 366, 373, 376

**Geography**
305 Hanna Hall, 372-2925

The program is designed around the department’s focus on the spatial analysis of regional change and development. In this context, the concept of a “region” is defined as a spatial unit that may include both urban and rural areas. Within the department’s focus the primary emphasis is on applied
human geographic dimensions of resources, land use, population and socio-economic analysis. Spatial analysis techniques of computer mapping, GIS and remote sensing are also emphasized and integrated. All geography majors are advised to take a course in statistics.

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in geography are expected to:

- Identify, describe and classify earth materials, formations and structures and interpret them in the context of geologic processes;
- Analyze and report quantitative geologic data collected in the field and laboratory;
- Read, write, present and critically evaluate geologic reports, professional papers and maps;
- Synthesize information from a variety of disciplines to solve geologic problems;
- Define and conduct original research in the geological sciences.

**Major, Bachelor of Arts**—minor required (35 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOL 104, 105, 302, 494 (or 493)</td>
<td>10</td>
</tr>
<tr>
<td><strong>Major, Bachelor of Science</strong>—minor required (34 hours)</td>
<td></td>
</tr>
<tr>
<td>GEOL 104, 105, 302, 309, 316, 494 (26)</td>
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<tr>
<td>plus two from GEOL 415, 431, 432 (8)</td>
<td></td>
</tr>
<tr>
<td>MATH 134 and 135 (6) or 131 (5)</td>
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<tr>
<td>CHEM 125 (5) or 135 (5), and 127 and 128 (5) or 137 and 138 (5)</td>
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<tr>
<td>PHYS 201 (5) or 211 (5) and 202 (5) or 212 (5)</td>
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<tr>
<td>BIOL 204 may be substituted for PHYS 202 or 212</td>
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</tbody>
</table>

**Geochemistry** (no minor required)

A student concentrating in geochemistry should take the following courses:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOL 104, 105, 302, 309, 316, 415 (or 432), 431, 494 (34)</td>
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<tr>
<td>PHYS 201, 202 or 211, 212 (10)</td>
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<tr>
<td>MATH 131, 232 (10)</td>
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<tr>
<td>CHEM (see minor requirements in chemistry (20) p. 58)</td>
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<tr>
<td><strong>CS 101 (3)</strong></td>
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</table>

**Geophysics** (no minor required)

A student concentrating in geophysics should take the following courses:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOL 104, 105, 302, 309, 316, 415 or 431, 432, 494 (34)</td>
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<tr>
<td>PHYS 211, 212, 307, 401, 427 (18); MATH 131, 232 (10)</td>
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<tr>
<td>CHEM 125, 127, 128 or 135, 137, 138 (10)</td>
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<tr>
<td><strong>CS 101 (3)</strong></td>
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</table>

**Paleobiology** (no minor required)

A student concentrating in paleobiology is required to take the following courses:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOL 104, 105, 205 (or 215), 302, 309, 316, 415, 425 (29)</td>
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<tr>
<td>GEOL 490 (senior research problem approved by paleobiology adviser) (3-6)</td>
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<tr>
<td>GEOL 494 (or a substitute field course approved by the paleobiology adviser) (3-6)</td>
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<tr>
<td>CHEM 125 or 135 (5)</td>
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<tr>
<td>MATH 134 and 135 (6) or 131 (5)</td>
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<tr>
<td>PHYS 201 (5)</td>
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<tr>
<td>BIOL 204, 205, 350, 354, 451 (19)</td>
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</tbody>
</table>

**Minor** (20 hours)

- **German**
  103 Shatzel Hall, 372-2268

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in German are expected to:

- Understand the historical development of their own and other cultures and the process of change over time;
- Conduct research and analyze and synthesize information from a variety of sources;
- Present information and ideas in well-organized, clear expository prose.

**Major, Bachelor of Arts**—minor required (33 hours)

Nine hours chosen from: HIST 151, 152, 180, 205, 206

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**Other programs**

Programs in German also are offered by the College of Education and Human Development (see p. 91).

**History**

128 Williams Hall, 372-2030

The history department offers a flexible major. After taking three introductory courses (chosen from world civilization, U.S. history and Asian civilizations) majors are required to complete at least one course from: European history, U.S. history and other areas, including Asia, Latin America, Africa and Canada. This approach allows students to choose to be either focused on a specific area or period or to select a broad distribution of courses. In addition to a broad selection of courses, the history department offers practical training in two forms: a wide range of internship possibilities and special courses in public history.

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in history are expected to:

- Understand the historical development of their own and other cultures and the process of change over time;
- Conduct research and analyze and synthesize information from a variety of sources;
- Present information and ideas in well-organized, clear expository prose.
24 hours of 300- and 400-level courses including HIST 480 and at least three hours at the 400 level in each of the three categories:

**European history**

**U.S. history**

**Other**
HIST 304, 305, 309, 310, 311, 315, 340, 381, 382, 386, 401, 411, 413, 414, 441, 442, 462, 483, 486

(HIST 391, 395, 400, 495 may be used to fulfill the requirements of the major and minor with approval of the department adviser.)

**Minor** (21 hours)
Nine hours chosen from: HIST 151, 152, 180, 205, 206
12 hours at the 300 or 400 level chosen from at least two of the three categories indicated above with at least three hours at the 400 level.

**+Individual Planned Programs**
205 Administration Building, 372-2015
See bachelor of arts degree, p. 47 or see a college adviser.

**+International Studies**
305 Hanna Hall, 372-2925

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in international studies are expected to:

- Know and apply geographic, social, economic, political, and cultural concepts and facts that are important for the understanding of international issues and areas;
- Demonstrate understanding of a region of personal interest, shown through examining the region’s past and present circumstances, major issues and problems, and dynamics shaping its future;
- Use statistical, computational and cartographic tools and techniques to gather, analyze, interpret and present information and data accurately;
- Analyze international issues and areas through the integration of information, effectively communicating the findings both orally and in writing;
- Demonstrate speaking, reading and writing competency in a foreign language.

**Major, Bachelor of Arts**—no minor required (57 hours)
International studies is an interdisciplinary program for students preparing for careers requiring knowledge of world affairs and experience with different cultures. Graduates have found employment in business, travel and government or completed additional graduate or professional training in international affairs. Study abroad and/or an internship are strongly recommended.

HIST 151 or 152; POLS 171 or 172; GEOG 121 or 122; ECON 202; GEOG 230 or SOC 231; GEOG 325 or SOC 312; SOC 369 or STAT 200 (a combination of both MATH 115 and 116 may also be used); CS 100 or 101

At least two courses taught in one foreign language at the 300 level. In certain languages, an approved substitute below the 300 level may be approved by the program advisory committee and the college

A minimum of 27 hours of coursework applicable to international studies as approved by the adviser

*Only six hours of internship credit may be included. 101, 102, 201 and 202 language courses cannot be included.

**+Interpersonal Communication**
313 West Hall, 372-2823

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in interpersonal communication are expected to:

- Recognize the importance of communication across disciplines and professions;
- Understand core communication theories and concepts and apply them in their daily lives;
- Evaluate communication research studies critically;
- Demonstrate communication skills for a wide variety of contexts (interpersonal, organizational, intercultural, international) and purposes (informing, persuading, organizational, intercultural, international);
- Research, develop, organize and deliver effective and ethical written and oral presentations.

**Major, Bachelor of Arts**—minor required (36 hours)

**Minor** (24 hours)

**+Journalism**
319 West Hall, 372-2076
See bachelor of science in journalism, p. 50.
• Critically assess, organize and present information for a variety of audiences, in at least two media formats and in both written and visual forms;
• Perform within professional expectations with regard to deadlines and accuracy and in keeping with media law and ethics;
• Critically analyze the development and social impact of the media within diverse domestic and global communities.

Minor (22 hours)
JOUR 100, 200, 250, 400, 450
One additional skills course (such as editing, photography, broadcast news reporting, public relations writing).
Two journalism concept courses (such as media and society, perspectives on international media and principles of public relations)

+Latin
203 Shatzel Hall, 372-2667
The Latin major offers preparation for prospective teachers of Latin in private schools (for those wishing to teach Latin in the public schools, a major in Latin is offered through the College of Education and Human Development, see p. 93) or for further study in areas such as classical studies, ancient history, classical archeology, comparative literature, law, medicine, the Middle Ages or the Renaissance.

Learning Outcomes
Upon completion of the baccalaureate degree, students in Latin are expected to:
• Read, comprehend and comment insightfully and critically on texts in Latin;
• Demonstrate translating skills by parsing words accurately using knowledge of Latin and English grammar and syntax;
• Express knowledge of the genre of the works being translated;
• Apply critical analysis and interpretive skills to Latin literature and the society that produced it;
• Engage in rational, civil discourse about complex topics in a manner respectful of others.

Major, Bachelor of Arts—minor required
(21 hours beyond LAT 202)
No more than six hours from any CLCV course

Minor (12 hours beyond LAT 202)
No more than three hours from any CLCV course

+Liberal Studies
205 Administration Building, 372-2015
See college adviser.

+Linguistics
218 East Hall, 372-8145
Minor only (20 hours)
An interdepartmental and interdisciplinary program designed for the student who is interested in linguistics primarily for its relevance to the major field. The program requires 20 hours of coursework appropriately selected from courses recommended by the linguistics adviser. No work can be counted both for the major and the minor.

Required courses
Either ENG 290 or 380 and 381 (6)
One from: (remainder may be used as electives) (3-4): GERM 482; SPAN 455 or comparable linguistic based courses for other languages
Electives (10-12) chosen from relevant courses in English, psychology, CDIS, IPC or other departments as approved by the linguistics adviser

+Materials Science
104 Overman Hall, 372-2421
Minor only (20 hours)
This curriculum is primarily intended as an option for students majoring in biology, chemistry, geology, mathematics, physics or technology. The basic prerequisites for the survey courses (MATS 401/402) include one year of physics and chemistry, or permission of the instructor. The program includes 20 semester hours of specialized coursework in materials:
MAT 401, 402, 470 (10)
MFG 329, 438 (6)
BIOL 446 (4)

+Mathematics
450 Mathematical Sciences, 372-2636
Learning Outcomes
Upon completion of the baccalaureate degree, students in mathematics are expected to:
• Understand what mathematics and statistics are, how they are done and how they relate to other disciplines;
• Use the language of mathematics and statistics to communicate basic ideas, techniques and results;
• Objectively and critically evaluate information and assess performance using mathematical ideas;
• Demonstrate appreciation for the beauty, utility and impact of mathematics and statistics;
• Apply mathematical problem-solving techniques in novel situations;
• Use appropriate technology to attack a wide variety of mathematical tasks successfully.

Majors or minors
Students may complete a bachelor of arts degree with a major, second major or minor in mathematics by completing the degree requirements for the B.A. degree and the requirements for a major or minor in mathematics listed under the bachelor of science degree. This policy also applies to majors in applied mathematics, actuarial science and statistics as well as the minor in statistics.

Major, Bachelor of Science—minor required
(34 hours)
MATH 131, 232, 233, 322, 332, 337, 403 (25)
MATH 434 or 465 (3)
At least two additional 300- or 400-level MATH electives* (6). These electives must be chosen so that two courses are completed from any group**:
MATH 401, 403, 404, 432
MATH 402, 405
MATH 313, 421
MATH 434, 439, 461, 465, 466
MATH 441, 442, 445, 447
MATH 451, 452
MATH 426, 427

To graduate with a major in mathematics, a grade point average of 2.0 or better is required in those courses used to meet the requirements for the major.

Applied Mathematics (31-37 hours)
This option emphasizes the scientific computing and modeling aspects of applied mathematics. The minimum grade point average in major courses is 2.0. A minor or double major in computer science or physics is recommended.

Fall
MATH 131, 232, 233, 322
MATH 313, 332, 337, 403, 425, 426, 427, 441 (28)
MATH 434 or 465 (3), MATH 451 or CS 451 (0-3)

Spring
MATH 441, 442, 445, 447

Actuarial Science—no minor required
(37-40 hours)
This option is intended for students interested in a career as an insurance or pension actuary. It requires the following courses:
MATH 131, 232, 233, 322, 332, 432, 425, 426, 427, 441, 442 (37)
MATH 451 or CS 451 (0-3)
CS 101; STAT 416; ECON 202, 203; OR 380 or CS 440; ACCT 221; FIN 320

Suggested electives for this program are ACCT 222; FIN 350, 425; OR 400 and STAT 402

Suggested schedule
First year
Fall—MATH 131, CS 101
Spring—MATH 232

Second year
Fall—MATH 233, 332; ECON 202
Spring—ECON 203; MATH 322; MATH 425 (even years)
Arrangements have been made to waive the stated prerequisites to OR 380 and FIN 320. The economics courses may be counted toward the social sciences requirement. It is essential that students consult with the program adviser on a regular basis.

Minor (22 hours)
MATH 131, 232, 233, 332 (16 hours)
Two electives at the 300 or 400 level* (6)

Core program
The following is recommended for majors and minors in mathematics and statistics:

First year
MATH 131, 232 (10)
Second year
MATH 233, 322 and 332 and/or 337 (9-12)

*except MATH 222, 226, 395, 414, 470, 489, 495
**some of these courses may not be offered every year

Other programs
A program in mathematics also is offered by the College of Education and Human Development (see p. 93).

*Microbiology
538 Life Sciences, 372-2279

Learning Outcomes
Upon completion of the baccalaureate degree, students in microbiology are expected to:
• Understand the basic principles of living systems as shown by reading and comprehending primary research literature in the biological sciences;
• Apply knowledge of biology to address a wide variety of needs and problems, locally and globally.

Major only, Bachelor of Science—
(32 hours)
BIOL 204, 205, 313 (14)
CHEM 125, 127, 128 and 201 (13) or
135, 137, 138 (10)
CHEM 341 and 342 (10) or 306 (4)
CHEM 308, 309 (4) or 445, 447 (6)
MATH equivalent to 131
PHYS 201 and 202 or 211 and 212 (10)
CS 100, 101 or MIS 200 recommended

A minimum of 18 hours, at least 12 of which should be selected from the following list of core courses, including at least one course with a laboratory component: BIOL 421, 426, 442, 443, 444, 447, 400 (up to 3 hours in a microbiology topic, with prior approval of microbiology adviser)

Additional hours may be selected from:
BIOL 405, 407, 424, 439, 446
The following courses may also be taken as electives with prior approval of the microbiology adviser: BIOL 400, 401, 402, 470, 489, 490, all in the area of microbiology; BIOL 479; MEDT 404 (or 416), 421, 422, 431 and 432 (or 403), 434, 435

Other programs
Programs in biology also are offered by the College of Education and Human Development (see p. 96). A program in applied health science also is offered by the College of Health and Human Services (see p. 114).

**Music
Moore Musical Arts Center, 372-2181

The bachelor of arts degree requires courses and electives in musicianship and performance studies, and it includes three different tracks of additional electives from which students can choose. Students wishing to pursue a major or minor in music should contact the associate dean of the College of Musical Arts. An audition is required.

Learning Outcomes
Upon completion of the baccalaureate degree, students in music are expected to:
• Demonstrate mastery over music theory— the construction of chords, harmony and scale systems from all periods;
• Aurally identify any interval or chord, scale structure and style of music, capably sight-sing any music and play piano;
• Competently perform on an instrument of choice (including voice) and effectively communicate on the literature for that instrument and for appropriate ensembles;
• Critically evaluate the history and development of music over the last 1,000 years, recognize sociopolitical and artistic forces on music and articulate the major figures and style characteristics of historic periods;
• Comprehend the basics of non-Western music and/or jazz, and apply critical thinking towards music and its contextualization.

Major, Bachelor of Arts—minor required (38 hours)

Required musicianship courses (19)
MUCT 116, 125, 241, 242
MUSP 219, 305

Performance (8)
MUSP applied study (4)
MUSP or MUCH ensembles (4)

Music electives (select from):
Track I—Music history emphasis (5)
MUCT 318, 401, 407, 408, 412
Track II—Ethnomusicology/Jazz emphasis (5)
MUCT 233, 234, 235, 237, 401, 420, 431
Track III—Performance emphasis (5-22)
MUSP applied study/ensembles;
Graduation recital required

Minor or planned program in related area by advisement (20-24)
Suggested fields: business, computer science, film studies, interpersonal and public communication, journalism, mass media, popular culture, telecommunications, recording technology, scientific and technical communication, theatre, art or dance

Minor (25 hours)
MUCT 141, 142, 151, 152, 251, 261, 262 (15)
MUSP applied study (3)*
MUSP ensemble (3)
Music electives (4)*
MUS 099, four semesters (0)

*Track III (performance emphasis) is any number between 38-55 hours.
**Some students may be required to enroll in MUCT 115 concurrent with 151.
***Students must be enrolled in applied study during the semester of the graduation recital.

Other programs
Programs in music are also offered by the College of Musical Arts (see p. 124).

Neuroscience
Biological Sciences, 217 Life Sciences, 372-2332
Psychology, 206 Psychology, 372-2301

The bachelor of science major in neuroscience is a prototypical interdisciplinary program consisting primarily of biology and psychology courses. Courses that contribute to meeting the requirements of this major are all listed in biology and psychology departmental listings. In addition to structured coursework, majors are strongly urged to take independent research courses with neuroscience faculty (BIOL 401 and/or PSYC 490). The neuroscience major is especially suited for students interested in careers in medicine or research.

Learning Outcomes
Upon completion of the baccalaureate degree, students in neuroscience are expected to:
• Understand the scientific process and the design and implementation of experiments;
• Evaluate evidence and differentiate between scientific fact and unscientific arguments;
• Present scientific information in oral and written formats appropriate to scientific and nonscientific audiences;
• Understand the basic principles of neuroscience, behavior and the integration of the two fields;
• Read and comprehend primary research literature of the biological sciences;
• Be prepared for post-baccalaureate studies in psychology, biology, neuroscience or medical school, or for entering the private sector in areas related to their training.

**Major, Bachelor of Science**—minor required (32 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 205 (5)</td>
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</tr>
<tr>
<td>PSYC 201 (4)</td>
<td></td>
</tr>
<tr>
<td>PSYC 330 (3)</td>
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</tbody>
</table>

Minimum of 20 hours from (with at least one course in both biology and psychology):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 401 (3), 418 (3), 419 (3), 420 (4), 440 (3), 490 (3)</td>
<td></td>
</tr>
<tr>
<td>PSYC 328 (4), 331 (3), 332 (4), 333 (4), 334 (3), 335 (3), 440 (3), 490 (3)</td>
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</tbody>
</table>

Additional requirements (credits do not count towards major) (24-30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYS 201 (5); MATH 131 (5); CHEM 125 or 135 (5), 127 or 137 (4), 128 or 138 (1), 306 (4) or 341 (5) and 342 (5)</td>
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</table>

Additional recommended chemistry sequences:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 308 (3), 309 (1) or 445 (3), 446 (1), 447 (3)</td>
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</table>

**Pharmacy**

305 Shatzel Hall, 372-2117

The philosophy department intends to serve the interests of a wide range of students seeking the skills and understanding traditionally known as a philosophical perspective. The major requires work in the various areas of philosophic study: logic, history of philosophy, normative philosophy, and metaphysics and epistemology.

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in philosophy are expected to:

• Read and understand sophisticated philosophical texts;
• Critically evaluate philosophical arguments;
• Construct and defend philosophical arguments in well-organized, clear and concise prose;
• Demonstrate mastery of basic philosophical concepts and methods both orally and in writing;
• Apply critical-thinking and argument- evaluation skills to the philosophical issues and arguments that present themselves in everyday life;
• Engage in rational, civil discourse about complex and emotionally laden topics in a manner that is respectful of others.

**Major, Bachelor of Arts**—minor required (33 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic and methodology</td>
<td></td>
</tr>
<tr>
<td>Three hours chosen from: PHIL 103, 203, 303</td>
<td></td>
</tr>
<tr>
<td>History of philosophy</td>
<td></td>
</tr>
<tr>
<td>Six hours chosen from: PHIL 211, 212, 311, 411, 412</td>
<td></td>
</tr>
<tr>
<td>Normative philosophy</td>
<td></td>
</tr>
<tr>
<td>Three hours chosen from: PHIL 202, 204, 312, 318, 425</td>
<td></td>
</tr>
<tr>
<td>Metaphysics and epistemology</td>
<td></td>
</tr>
<tr>
<td>Three hours chosen from: PHIL 216, 230, 316, 330, 406, 414, 431, 433</td>
<td></td>
</tr>
<tr>
<td>At least 18 hours in PHIL electives (consult with the philosophy adviser)</td>
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<tr>
<td>At least 5 courses overall in PHIL must be at 300 or 400 level</td>
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</tbody>
</table>

Those who think they might want to apply to graduate school in philosophy should consult with the philosophy adviser as early as possible about additional course recommendations.

The philosophy department believes that the prescribed major provides a solid grounding in philosophy, useful for students with widely varied interests. However, the department also recognizes that some students may be in special circumstances which warrant deviation from the above requirements. The requirements can be tailored to meet the needs of individual students in such cases. Early consultation with the undergraduate adviser is essential.

**Minor (20 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of philosophy</td>
<td></td>
</tr>
<tr>
<td>Six hours chosen from: PHIL 211, 212, 311, 411, 412</td>
<td></td>
</tr>
<tr>
<td>Normative philosophy</td>
<td></td>
</tr>
<tr>
<td>Three hours chosen from: PHIL 202, 204, 312, 318, 425</td>
<td></td>
</tr>
<tr>
<td>Metaphysics and epistemology</td>
<td></td>
</tr>
<tr>
<td>Three hours chosen from: PHIL 216, 230, 316, 330, 406, 414, 431, 433</td>
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<tr>
<td>At least 8 hours in PHIL electives (consult with the philosophy adviser)</td>
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</tbody>
</table>

Students fashion philosophy minors to complement major programs across the University as well as to develop broad philosophical perspectives of general interest. The philosophy minor is designed to serve philosophic interests of students throughout the University. The minor consists of 20 hours, including two history of philosophy courses and three other 300- to 400-level philosophy courses.

**Physics**

104 Overman Hall, 372-2421

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in physics are expected to:

• Demonstrate thorough conceptual understanding of the basic field of physics;
• Describe and manipulate fundamental physical constructs and solve problems with mathematics and computational methods;
• Use basic experimental apparatus common to the study of physical phenomena;
• Communicate scientific ideas effectively, both orally and in writing.

**Major, Bachelor of Science**—minor required (32 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211, 212, 301, 311 (14)</td>
<td></td>
</tr>
<tr>
<td>PHYS 307, 317, 401, 418 (11)</td>
<td></td>
</tr>
<tr>
<td>PHYS 429 or 470 (1)</td>
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<tr>
<td>PHYS 416, 417 (6)</td>
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It is recommended that a student majoring or minoring in physics take the following:

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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 125, 127, 128 (10)</td>
<td></td>
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<tr>
<td>MATH 332 (3)</td>
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</table>

For students expecting to continue on to graduate school, the following courses are recommended: PHYS 303, 309, 402, 419 (12)

**Applied Physics**

A student may elect to specialize in applied physics, with emphasis on the areas of current interest in the modern optics and solid state fields. The following courses should be included as part of the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYS 303, 306, 410, 428, 429 (18)</td>
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</table>

The following courses must also be taken:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS 101 (3), 207 (3)</td>
<td></td>
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<tr>
<td>CHEM 125, 127, 128 (10)</td>
<td></td>
</tr>
<tr>
<td>DESN 243 (3)</td>
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</tbody>
</table>

**Minor (22 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211, 212, 301, 311 (14)</td>
<td></td>
</tr>
<tr>
<td>Other 300- and 400-level courses in PHYS (8)</td>
<td></td>
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</tbody>
</table>

**Other Programs**

Programs in physics also are offered by the College of Education and Human Development (see p. 95).

**Political Science**

122 Williams Hall, 372-2921

**Learning Outcomes**

Upon completion of the baccalaureate degree, students in political science are expected to:

• Communicate effectively, both orally and in writing, about the subject matter of political science;
• Apply critical-thinking abilities and disciplinary theories/frameworks to solve problems.
Major, Bachelor of Arts—minor required (33 hours)

POLS 110 and 290 and three additional hours at the 100 level (POLS 290 should be taken no later than the end of the junior year.) A minimum of 24 hours of political science at the 300-400 level distributed among at least three areas of political science with a concentration (at least 9 hours) in one is also required. The following areas in political science are available:

American government—POLS 110, 302, 324, 325, 331, 336, 341, 345, 346, 347, 374, 430, 431, 440, 443, 459

Comparative government—POLS 171, 335, 351, 355, 361, 366, 368, 434, 452, 454, 458, 460, 462

International relations—POLS 172, 335, 372, 374, 434, 452, 458, 460, 462, 473, 475, 476, 478

Political theory—POLS 301, 304, 402, 403, 404, 405, 452

Public administration—POLS 302, 303, 331, 346, 420, 421, 430, 431, 459

Public law—POLS 347, 416, 417, 418, 419, 420, 424, 425

POLS 303 is recommended for any of the 300- and 400-level courses in public administration. The beginning student is encouraged to take the following courses before taking advanced courses in a particular area: POLS 110 for American government, POLS 171 for comparative politics and POLS 172 for international relations. While all 100- and 200-level coursework completed satisfactorily will count toward the hours necessary for the baccalaureate degree, no more than nine hours at the 100-200 level or nine hours of POLS 496 will count toward the 33-hour major.

All students must consult with an adviser early in their pursuit of a major. Students opting for honors in political science must also take POLS 495, Honors Seminar in Contemporary Political Science, and write a senior thesis under the direction of a faculty adviser.

Minor (21 hours)
POLS at 100-200 level (6)
POLS at 300-400 level (15)

No more than nine hours of POLS 496 will count toward the minor.

**Popular Culture**

108 Popular Culture, 372-2981

The Department of Popular Culture studies the forms of creative expression we use in everyday life. Courses focus on the impact various aspects of popular culture (such as television, movies, rock music, popular books and magazines, sports, holidays, festivals and folklore) have on our culture and how they reflect the values of our society. While studies of contemporary culture are an important part of the program, historical material is emphasized as well.

Learning Outcomes

Upon completion of the baccalaureate degree, students in popular culture are expected to:

- Apply critical analysis to the popular culture environment, both in the present and in its various historical manifestations, in order to discuss such matters as how popular culture shapes/reflects our personal and social experiences, how popular culture shapes/reflects diversity in a multicultural society and how popular culture shapes/reflects American culture's relationship to global culture(s);
- Explicate ways in which the materials of popular culture are shaped by aesthetic, social history and cultural forces, and how the materials of popular culture influence these forces as well;
- Describe basic theories and methodologies relevant to popular culture scholarship, and apply those theories and methodologies in research;
- Recognize the existence of alternative aesthetic systems, varying from genre to genre or from medium to medium, and that they are not intrinsically good or bad, but that each one is based on its own set of standards and has its own challenges;
- Convey ideas orally and in writing.

Major, Bachelor of Arts—minor required (36 hours)

Required courses:

- POPC 160 or 165 (credit for both may not be used toward the major)
- POPC 170
- POPC 260
- POPC 300
- One of: POPC 250, 270, 280 or 290 (Students who wish to minor in Folklore and Folklife must select two courses from this list)
- One of: POPC 220, 320, 321, 325 or 424 (Students who wish to minor in Folklore and Folklife may not select from this requirement—see above)
- One of: POPC 350, 370, 380 or 460
- One of: POPC 365 or 426
- POPC 480

Electives in popular culture: Select three additional POPC courses, two of which must be at the 300 or 400 level. (9 hours)

Note: No more than 3 hours of POPC 490

Problems in Popular Culture may be counted toward the major.

Note: No more than 3 hours of POPC 395

Workshop may be counted toward the major.

Minor (21 hours)

Required courses: POPC 160 or 165; 170, 260; one of POPC 220, 250, 270, 280 or 290; two of POPC 350, 355, 370, 380 or 426; and one additional course offered by the department.

**Psychology**

206 Psychology, 372-2301

Learning Outcomes

Upon completion of the baccalaureate degree, students in psychology are expected to:

- Exhibit broad knowledge about human behavior from a variety of psychological perspectives (biological, cognitive, developmental, social);
- Demonstrate skills in research and other forms of inquiry in order to develop new knowledge about behavior;
- Communicate knowledge of psychology to others;
- Critically evaluate existing psychological knowledge.

Major, Bachelor of Arts—minor or 24 hours in cognate fields (30 hours)

A psychology major may minor in any department with an established minor. A student who elects a cognate minor should select, after consultation with an adviser, courses from at least three fields: BIOL, CHEM, CS, ECON, MATH, PHIL, PHYS or SOC. Two courses that are used to fulfill group requirements may also be applied to this minor.

First year

PSYC 201, 270 (8)

Second year

PSYC 290 (4)

PSYC electives

Third year

One 300-level laboratory course

PSYC electives

Fourth year

One 300-level laboratory course

PSYC electives

Minor (20 hours in PSYC)

Major, Bachelor of Science—minor required (33 hours)

30 hours in PSYC and either 24 hours in cognate fields or a minor in a second department. The 24 hours in cognate fields should be selected, after consultation with an adviser, from at least three fields: BIOL, CHEM, CS, ECON, MATH, PHIL, PHYS or SOC. Two courses that are used to fulfill group requirements may also be applied to this minor.

Note: The psychology department requirements differ from the arts and sciences group requirements in the following aspects:

**Group III (science and mathematics)**

A minimum of 43 hours must be completed in two or more of the following fields: BIOL, CHEM, CS, GEOL, MATH, PHYS, PSYC. No more than 24 hours of PSYC may be applied to this group. Each student must demonstrate proficiency equivalent to completion of MATH 232. Additional preparation in MATH is advisable for the student planning to do advanced graduate work in psychology.
Group IV (social sciences)
Two PSYC courses may be applied
Group V (humanities)
Courses in logic and the philosophy of science are recommended

First year
PSYC 201, 270 (8)
Second year
PSYC 290, 370 (8) PSYC electives
Third year
Two 300-level PSYC laboratory courses PSYC electives
Fourth year
PSYC electives

Minor (20 hours in PSYC)

Russian
103 Shatzel Hall, 372-2268

Learning Outcomes
Upon completion of the baccalaureate degree, students in Russian are expected to:
• Demonstrate understanding of the aesthetic aspects and socio-historical contexts of a set of representative texts from Russian culture;
• Be able to employ different interpretive approaches;
• Know the cultural history and social realities of the Russian culture;
• Attain language proficiency levels congruent with national professional standards published by the American Council on the Teaching of Foreign Languages.

Major, Bachelor of Arts—minor required
25 hours beyond RUSN 202 or equivalent, and including RUSN 312, 313, 317, 318, 320, 417 and 331 or 419. Summer or semester study abroad is strongly recommended for majors.

Minor
12 hours beyond RUSN 202 or equivalent, and including RUSN 317, 318 and 320

Other programs
Programs in Russian also are offered by the College of Education and Human Development (see p. 96).

Science
205 Administration Building, 372-2015
Minor only
This minor is offered for the student who receives the bachelor of science degree. In place of a conventional minor, a student may bring the total in Group III (science and mathematics requirement) to 53 hours by following a program approved by the major adviser. No more than 33 hours in the major field may be applied to this requirement.

Scientific and Technical Communication
212 East Hall, 372-2576
Technical communication clearly and accurately conveys scientific and technical information. Technical communicators interpret specialized information for their readers' practical use. A technical communicator may be expected to create brochures, prepare research reports, manuals, instructions, news stories, scripts and speeches. Although technical communicators are not expected to be scientists or engineers, they are expected to have a good background in at least one technical, scientific or business area. Technical communication is a rapidly growing profession needed in all industries and technical communicators are in worldwide demand.

Curriculum
BSGU's bachelor of arts and bachelor of science degree programs develop technical communication skills by offering courses in technical writing, technical editing, computer science, visual communications and project management. In both degree programs, a technical, scientific or business cognate area is determined by students' career interests and planned with and approved by the undergraduate adviser for scientific and technical communication. Also included in both degree programs is an internship which gives the student practical work experience. Both programs combine in one comprehensive course of studies all of the requirements for both a major and a minor.

Enrollment in scientific and technical communication major
Before being fully accepted as a scientific and technical communication major, the student must have completed 30 hours of coursework and achieved an overall grade point average of 2.7; waivers of the grade point average requirement may be granted on the basis of the student's unique educational or work experience.

Learning Outcomes
Upon completion of the baccalaureate degree, students in scientific and technical communication are expected to:
• Use writing effectively—including current modes and evolving techniques and technologies—to explore subject matter and to communicate;
• Develop understanding of subject matter in relation to larger historical and/or cultural contexts, including multicultural contexts;
• Make connections between theory and practice. Students apply theory to understand texts, solve problems and teach effectively, and/or students generalize from experiences with texts, communication situations and teaching situations;
• Develop skills of creative and/or critical thinking.

Major, Bachelor of Arts—(57-63 hours)
Communication core—required courses
ENG 388, 389, 486, 487, 488 (15)
ENG 489 (3-9)
A&S 250

Computer science/technology requirements (9)
(one of the four subgroups below)
CS 100; MIS 200
CS 101, 260; MIS 360; TCOM 451
CS 205, 360; TECH 102; CONS 235; MFG 112
SOC 369; PSYC 270; STAT 200; MATH 115, 247

Graphics and design requirements
(choose two) (6)
DESN 104, 204; ART 102; ARTD 211;
VCT 203, 208

Project management requirements
(choose two) (6)
(These courses may have prerequisites, some of which may be taken as part of the Group IV requirements.)
PSYC 352, 452, 454, 455; MGMT 300, 305, 361; IPC 203, 207, 303, 304;
SOC 301, 318, 415; TE 428

Cognate area—suggested concentrations (18)
• Biology; psychology; physics; mathematics; chemistry; computer science; geography; foreign languages; sociology; law-related studies; industrial technology; environmental studies; business-related studies; journalism-related studies

Minor—recommended for students with science, technology or business majors (21 hours)
ENG 207, 388, 389, 486, 488
Any two courses chosen from computer science/technology, graphics and design, and project management groups above

Minor—recommended for students with humanities majors (21 hours)
ENG 388, 389, 486, 488
Any three courses chosen from computer science/technology, graphics and design, and project management groups above

The bachelor of science program is similar to the bachelor of arts program except that a total of 45 hours of coursework is required in math and science. The courses may be distributed among college math and science requirements, the computer science courses in the computer science/technology group and the cognate area.

Major, Bachelor of Science—no minor required (57-63 hours)
The program for the bachelor of science in scientific and technical communication is the same as that for the bachelor of arts except that appropriate courses from the science or
technology cognate and from the computer science/technology group may count toward the 45 hour Group III (mathematics and sciences) degree requirement for the bachelor of science degree. A plan for these courses is established in consultation with the program adviser.

Before full acceptance into the major, the student must have completed 30 hours of coursework and achieved an overall grade point average of 2.7; waivers of the grade point requirement may be granted on the basis of the student's unique educational or work experience.

Minor
See descriptions under bachelor of arts degree.

**Sociology**
222 Williams Hall, 372-2294

Sociology is the study of relations among individuals, relations between individuals and society, and relations among the systems and structures of society. A sociology major is excellent preparation for many professions.

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in sociology are expected to:

- Apply a sociological perspective, built upon an understanding of basic sociological constructs and theories, to various areas of social life;
- Explicate the diverse ways in which sociologists gather, interpret and evaluate data;
- Articulate sociologically informed opinions and arguments concerning social and behavioral phenomena, and critically read and understand sociological argument;
- Describe the similarities and dissimilarities of behaviors, attitudes, values, beliefs and opinions across populations and subpopulations.

**Major, Bachelor of Arts**—minor required
(32 hours)
SOC 101, 368, 369
SOC 301 or 302

Majors and minors with specific career aspirations may wish to concentrate course selections in one of the following areas:

**Criminology/Corrections**—This concentration studies the nature of criminal law, the causes and consequences of criminal behavior and the ways in which society deals with criminal offenders. Criminology is excellent preparation for careers in both the adult and juvenile justice systems, including police departments, court systems, and the probation and corrections networks within each. Electives include, but are not limited to:

SOC 316, 319, 340, 341, 352, 441, 442, 443, 461

**Family and Social Services**—This concentration prepares students for careers in agencies responsible for the planning, delivery and administration of services and resources for the well-being of individuals and families. Coursework provides a strong background for management decisions which must reflect an understanding of family dynamics—produced from social and individual variables including gender, age, race and class—and the interactions of those dynamics with social institutions generally and human service programs in particular. Electives include, but are not limited to:

SOC 313, 316, 317, 319, 341, 361, 404, 417, 460, 461

**Population Studies**—This concentration examines the composition of human populations, communities and organizations as they adapt to their environments. Basic understandings of contemporary energy and ecological issues are emphasized. The curriculum provides a breadth of training for careers in business planning, labor-force analysis and economic development. Population analysts are employed in all levels of government and private business. Electives include, but are not limited to:

SOC 311, 312, 313, 316, 361, 404, 414, 418, 419

**Other areas**
Students should consult the department's undergraduate adviser for the planning of other concentrations (e.g., prelaw, social-science education) or for individual planned programs.

**Internships**
Any concentration may involve cooperative education placements or internships which offer an opportunity for students to work in settings where they can apply their knowledge and learn more about careers in their area of study, as well as cognate courses in other departments.

**Minor**—minor required
(20 hours)

A student minoring in sociology is strongly encouraged to complete SOC 301 or 302, 368 and 369.

**Spanish**
203 Shatzel Hall, 372-2667

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in Spanish are expected to:

- Write, listen and converse proficiently about Spanish and Latin-American literary works, movements, and genres about the civilizations of Spain, Latin-American and the Spanish-speaking world;
- Master reading comprehension, terminology and basic research tools appropriate to literary and cultural analysis;
- Demonstrate language proficiency through standardized examinations;
- Engage in rational, civil discourse in a manner respectful of others and the cultural diversity of the Spanish-speaking world.

**Major, Bachelor of Arts**—minor required
(33 hours)

A student, in consultation with the undergraduate adviser may choose to focus on a specialized area of Spanish.

**Basic Spanish**
SPAN 351, 352, 367, 368, 371, 377, 378 (21)
Electives at the 400 level (12)

**Latin American Culture Studies emphasis**
An interdisciplinary planned curriculum of studies on Latin America.
SPAN 270, 352, 377, 378, 401; HIST 310; POLS 355 (21)
12 additional hours:
One from: HIST 309, 311, 411, 413
One from: GEOG 349; ETHN 310
Two from: SPAN 368, 431, 481, 482, 488, 489

Students choosing the Latin American culture studies emphasis must fulfill the Spanish language requirement by completing Spanish at the 351 level or demonstrate competency in the Spanish language, e.g., by completing intensive Spanish language and culture courses through the summer abroad program in Mexico.

**Minor**—minor required
(21 hours)
SPAN 270, 351, 352 (9)
SPAN 367 or 371 (3)
SPAN 368, 377 or 378 (3)
Electives with one course at 400 level (6)

**Statistics**
450 Mathematical Sciences, 372-2636

**Learning Outcomes**
Upon completion of the baccalaureate degree, students in statistics are expected to:

- Understand what mathematics and statistics are, how they are done and how they relate to other disciplines;
- Use the language of mathematics and statistics to communicate basic ideas, techniques and results;
- Objectively and critically evaluate information and assess performance using mathematical ideas;
- Demonstrate appreciation for the beauty, utility and impact of mathematics and statistics;
- Apply mathematical problem-solving techniques in novel situations;
- Use appropriate technology to attack a wide variety of mathematical tasks successfully.
Major, Bachelor of Arts—minor required (34 hours)
  MATH 131, 232, 233, 332 (16)
  MATH 441, 442 (6)
  MATH 434 or 465 (3)
  Three electives from the following list with at least two from statistics (9):
  STAT 402, 406, 408, 412, 414, 416;
  MATH 432, 445, 447, 451, 461; CS 440, 442

Major, Bachelor of Science—minor required (34 hours)
  MATH 131, 232, 233, 332 (16)
  MATH 441, 442 (6)
  Math 434 or 465 (3)
  Three electives from the following list with at least two from statistics (9):
  STAT 402, 406, 408, 412, 414, 416;
  MATH 432, 445, 447, 451, 461; CS 440, 442

Minor (19 hours)
  MATH 131, 232, 233 (13)
  MATH 441, 442 (6)
  Recommended electives from MATH 332, 445, 447; STAT 402, 406, 408, 412, 416

Telecommunications

322 West Hall, 372-2138 or 372-8690

Learning Outcomes

Upon completion of the baccalaureate degree, students in telecommunications are expected to:

• Comprehend and analyze the historical, cultural, political and economic contexts that shape the operation of electronic media systems (broadcasting, telephony, Internet, digital media);
• Critically analyze the social, cultural and psychological effects and implications of electronic media systems from a variety of theoretical and policy perspectives;
• Comprehend and apply the key social science research methods used in researching the role of electronically mediated communication processes;
• Formulate and effectively communicate ideas in oral, written and visual contexts;
• Comprehend and apply the various production, performance and writing techniques that are integral to the realization of effective media texts.

Major, Bachelor of Arts—minor required (35-37 hours)
  TCOM 103, 255, 260, 262, 263, 360, 366, 451, 460, 489 (28)
  Focus area: 3 courses (7-9) upper level.

Minor (21 hours)
  TCOM 103, 255 (6)
  Two 3-credit hour courses from TCOM courses at 200-300 level (6)
  Three 3-credit hour courses from TCOM courses at 400 level (9)

Major, Bachelor of Arts in Communication

A candidate for the degree of Bachelor of Arts in Communication with an emphasis in telecommunications must meet the following requirements:
1. Complete the degree requirements for the bachelor of arts in communication explained below;
2. Complete at least 30 hours in telecommunications courses, 20 of which are core requirements;
3. Earn a grade of "C" or better in all TCOM courses;
4. Complete a support field of at least nine hours in one department other than telecommunications. A student wishing to pursue an interdisciplinary support field must make an argument in writing to the adviser. The support field must be declared in writing by the end of the student’s junior year.

Major (36 hours)
Part I—All majors are required to take 10 core courses (28 hours): TCOM 103, 255, 260, 262, 263, 360, 366, 451, 460, 489

Part II—All majors are required to take three additional electives from TCOM courses numbered 261 to 490. These electives are in addition to courses already applied toward satisfying Part I course requirements. The three courses should have an area of focus (such as production, programming, management) that is approved by a faculty adviser.

Theatre

338 South Hall, 372-2222

The theatre program is accredited by the National Association of Schools of Theatre.

Learning Outcomes

Upon completion of the baccalaureate degree, students in theatre are expected to:
• Analyze diverse performance texts from various historical periods and cultural backgrounds in order to make effective aesthetic decisions as a theatre scholar/artist;
• Use performance as the site and process for critical, cultural and historical understandings;
• Research and communicate ideas and feelings in written, visual and/or oral forms in order to articulate a conceptual and critical approach to theatrical production;
• Work collaboratively to solve specific production requirements as actor, director, designer and/or technician;
• Present skills and knowledge as a theatre scholar/artist in a professional format.

University Theatre

The University Theatre serves as a laboratory for University students interested in theatre. The University Theatre presents approximately eight productions during the academic year. Plays and musicals that are presented represent a wide range of dramatic literature in a variety of production styles. The productions are presented in the Eva Marie Saint Theatre, the Joe E. Brown Theatre, both in University Hall, as well as our Elsewhere theatre space (411 South Hall). Open auditions are held for all productions and the entire University community is invited to participate. Opportunities are available for students to work in all aspects of theatre production from management and promotion to acting, directing, designing and crew work.
Grant-in-aid
The theatre department offers grant-in-aid scholarships in acting, forensics and technical theatre to qualified undergraduates. The grant-in-aid scholarships are awarded on a competitive basis with students submitting applications, letters of recommendation and completing a live audition or interview. Students interested in obtaining a grant-in-aid audition form should contact the theatre office, 338 South Hall.

Huron Playhouse
The theatre program also sponsors the Huron Playhouse each summer. Students must audition to be considered for membership in the company. Each year the Playhouse presents five plays and musicals during the eight-week season. The Playhouse provides students with a full range of summer stock experience.

Treehouse Troupe
Each spring the award-winning Treehouse Troupe tours elementary schools throughout northwest Ohio. Members of the troupe perform and conduct classroom workshops in participating schools.

Forensics team
The department sponsors an intercollegiate forensics team in which speaking and performance skills can be polished through either public address or oral interpretation events.

Study abroad program
All BGSU undergraduate theatre and film studies majors may apply for participation in the BGSU/University of Wales student exchange program. If accepted into this program, students spend a semester studying theatre and/or film in the Department of Theatre, Film and Television Studies at the University of Wales located in scenic Aberystwyth. Site of the largest undergraduate theatre program in Great Britain, the University of Wales is also the home of the prestigious Performance Research Centre.

Women's Studies
246 Shatzel Hall, 372-7133
Women's studies is an interdisciplinary program offering critical historical, sociological, philosophical, psychological and literary examinations of the lives of women. Courses examine the ways in which gender, sexuality, ethnicity, and class were constructed in specific historical periods or cultures and trace the impact of these social categories on people's lives, concepts and values today. They offer women and men of all backgrounds and viewpoints the opportunity to work together to develop and test ways of envisioning human life and community.

Readings and classroom discussions introduce students to the new scholarship which reveals the ways in which women's lives have been frequently erased from traditional scholarship. Faculty encourage critical analyses of women in society, culture, and history; they promote active learning and social responsibility.

Learning Outcomes
Upon completion of the baccalaureate degree, students in women's studies are expected to:

• Discuss the multiple types of feminisms that currently exist in the U.S. and internationally, as well as their histories and development;
• Critically analyze and make profitable connections between feminist theories and feminist practices;
• Explicate the basic debates or areas of contention within contemporary feminist thought;
• Describe the multiple ways in which gender is intersected by other social relations such as race, ethnicity, sexuality, class and nation;
• Identify the basic components that distinguish feminist methodologies from other approaches to inquiry, and the ways in which women's studies approaches have transformed traditional disciplines;
• Communicate clearly and effectively in written and oral expression.

Major, Bachelor of Arts—minor required (39 hours)
WS 200, 302, 400, 401; ETHN 302 (15)
Eight additional courses (24 hours) on women and/or gender are selected in consultation with a program adviser.

Minor (21 hours)
WS 200, 302; ETHN 302 and WS 400 or 401 (12)
Three additional courses (9 hours) on women and/or gender are selected in consultation with the program adviser.

Career opportunities
The Women's Studies Program prepares students for a variety of careers. Recent graduates have entered such fields as law, communications, education, health care, business, counseling, library science and the ministry.

Students are encouraged to develop coordinated major-minor and double-major programs that research and analyze the development and application of specific gender themes. The goal is to create areas of expertise that address important occupational challenges and issues. Some students choose to pursue graduate or professional study.

Women's studies majors are required to participate in an internship tailored to their career, professional or personal goals. This allows students to gain valuable work experience and apply the methods and conceptual tools they have acquired in real-world settings.