# Ashland University
## 2015 - 2016 Undergraduate Catalog

**Beginning our one hundred and thirty-eighth year devoted to the development of each student's personal potential.**

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Accreditations/Associations Memberships

Accreditations
Ashland University is accredited by The Higher Learning Commission and a member of the North Central Association (web address: http://www.ncahlc.org and phone: 800-621-7440 or 312-263-0456). Authorization to grant bachelor, master and doctor degrees comes from the Ohio Board of Regents.
In addition, individual programs are accredited by:
Association of Theological Schools (ATS)
Accreditation Council for Business Schools and Programs (ACBSP), including specialized accreditation in accounting.
American Chemical Society
Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND)
Commission on Accreditation of Athletic Training Education (CAATE)
National Council for Accreditation of Teacher Education (NCATE)
National Association of Schools of Music (NASM)
Council on Social Work Education (baccalaureate level)
Commission on Collegiate Nursing Education CCNE (Accrediting Body) and Ohio Board of Nursing OBN (Program Approval) - Undergraduate Programs
Commission on English Language Program Accreditation (CEA) for the ACCESS Program.

University Memberships
AU holds membership in American Association of Colleges of Nursing, National Collegiate Honors Council, National League for Nursing, Institute of International Education, NAFSA: Association of International Educators, the National Collegiate Athletic Association, and Association of Independent Liberal Arts Colleges for Teacher Education.

Ashland University also is a member of Ohio Foundation of Independent Colleges, Association of Independent Colleges and Universities of Ohio, Ohio Association of Colleges for Teacher Education, Ohio Association of Private Colleges for Teacher Education, Ohio Campus Compact, Consortium for Overseas Student Teaching (COST); Association of Governing Boards; National Association of Independent Colleges and Universities (NAICU); Council of Independent Colleges (CIC); and Ohio Newspaper Association. The American Association of College of Nursing (AACN); Northeast Ohio Nursing Initiative (NEONI); and National Organization of Nurse Practitioner Faculties (NONPF).

Departments hold memberships in American Alliance for Health, Physical Ed., Recreation and Dance; American Association of Intensive English Programs; American Council on the Teaching of Foreign Languages; American Hotel and Lodging Educational Foundation; Associated Writing Programs; Broadcast Education Association; Foundation in Art: Theory and Education; National Communication Association; Ohio Association for Health, Physical Education, Recreation and Dance; Ohio Association of Broadcasters; Ohio Biological Survey; Ohio Council of Deans and Directors of Baccalaureate and Higher Degree Nursing Programs; and Ohio League of Nursing.
Student Memberships

Ashland University has membership in Alpha Gamma Omega Nu, National Honor Society in Physical Education; Alpha Lambda Delta, Honor Society for Freshmen; Alpha Phi Sigma, National Honor Society in Criminal Justice; Alpha Psi Omega, National Honor Society in Theatre; Beta Beta Beta, National Honor Society in Biology; Delta Mu Delta, International Honor Society in Business; Kappa Delta Pi, International Honor Society in Education; Omicron Delta Epsilon, the International Economics Honor Society; Phi Alpha, National Social Work Honor Society; Phi Alpha Theta, International Honor Society in History; Phi Sigma Iota, Gamma Tau chapter, International Foreign Language Honor Society; Phi Sigma Tau, International Honor Society in Philosophy; Pi Mu Epsilon, National Honor Society in Mathematics; Pi Sigma Alpha, National Honor Society in Political Science; Psi Chi, International Honor Society in Psychology; Sigma Gamma Epsilon, National Honor Society in Geology; Sigma Tau Delta, International English Honor Society; Sigma Theta Tau, RhoNu Chapter, International Honor Society of Nursing; Theta Alpha Kappa, National Honor Society for Religious Studies and Theology; and Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines.

Family Educational Rights and Privacy Act

The purpose of the Act is to require educational institutions and agencies to conform to fair information practices. Ashland University will not release personally identifiable student records on file without prior student consent. Exceptions to this are (1) Ashland University school officials or teachers who have a legitimate educational interest in the student; (2) another school to which the student has applied and intends to enroll; (3) authorized federal and state officials; (4) persons dealing with a student's application for financial aid; and/or (5) parents. It is Ashland University policy that no data from student records be provided to non-university agencies for mailing purposes.

Inquiries regarding compliance may be directed to the Registrar, Ashland University, 401 College Ave., Ashland, Ohio 44805.

Directory Information

In accordance with the Federal Educational Rights and Privacy Act of 1974 (FERPA), Ashland University has listed the following data items as "Directory Information" and may release this information for those enrolled without a student’s consent. For clarification or questions you may contact the Registrar.

Name
Local Mailing Address
Home Address
Phone Number
Parent's Name and Mailing Address
Email Address
Class
Center Attended
Dates of Attendance
Full, Half, Part time Status
Degrees and Awards Received
Previous Institutions Attended
Participation in fully recognized activities and sport Photographs, weight, and height of athletic team members
Date and Place of Birth
Major

Student Right to Know Act

In accordance with guidelines for the Student Right to Know Act, Ashland University had a six-year graduation rate of 56% for the first-time full-time freshmen who entered in Fall 2008.
### 2015 - 2016 AU Calendar and Contact Information

#### Fall 2015
- **Fall Semester Classes Begin**: August 24
- **Family Weekend**: September 25 - 27
- **Homecoming**: October 16 - 18
- **Thanksgiving Break**: October 26 - 27
- **Fall Break (no classes)**: November 25 - 29
- **Classes Resume**: November 30
- **Fall Semester Classes End**: December 9
- **Fall Semester Final Exams**: December 9 - 15
- **December Conferral**: December 19

#### Spring 2016
- **Spring Semester Classes Begin**: January 11
- **Martin Luther King Jr. Day (no classes)**: January 18
- **Spring Break**: March 7 - 11
- **Easter Break**: March 24 - 27
- **Spring Semester Classes End**: May 4
- **Spring Semester Final Exams**: May 5 - 10
- **Spring Commencement**: May 14

#### Summer 2016
- **3-Week Intensive**: May 16 - June 3
- **1st 5 Week Session**: May 16 - June 17
- **1st 6 Week Session**: May 16 - June 24
- **1st 6 Week Session/Nursing**: May 16 - June 24
- **Memorial Day (no classes)**: May 30
- **Nursing Break**: June 27 - July 1
- **2nd 5 Week Session**: June 27 - July 29
- **2nd 6 Week Session**: June 27 - August 5
- **2nd 6 Week Session/Nursing**: June 27 - August 5
- **4th of July (no classes)**: July 4

#### Undergraduate Admission Information and Campus Tours
- Office of Admission, Gill Welcome Center, 419-289-5052; e-mail: enrollme@ashland.edu
- www.ashland.edu/admissions

#### Financial aid, scholarships, loans and student employment
- Office of Financial Aid, 310 Founders Hall, 419-289-5002

#### Student bills
- Office of Student Accounts, 202 Founders Hall, 419-289-5022

#### Athletics
- Athletic Department, Physical Education Center, 419-289-5441

#### Registration, scheduling, transcripts and veterans’ affairs
- Office of the Registrar, 206 Founders Hall, 419-289-5029

#### Founders School of Continuing Education
- 419-207-6965 or 1-800-882-1548, x6965

#### On-campus housing and charges
- Office of Residence Life, 2nd floor, Hawkins-Conard Student Center, 419-289-5303
- Current information about the University and its facilities can also be found through the internet on the Ashland University worldwide web home page: http://www.ashland.edu.
- Ashland University
- 401 College Avenue
- Ashland, Ohio 44805
- Switchboard 419-289-4142
- In Ohio 1-800-882-1548
Welcome to Ashland University. Ashland was founded with a clear sense of serving others through quality educational programs, and, as you read through these pages, you are sure to find that the heart of the University still focuses on quality and serving the individual, more than 135 years after it was established. As with any catalog, you will also find the information here that you need to navigate our many offerings, and gain insight about the Ashland University campus experience. You will read our mission, vision and values, find information on our academic programs, tuition, and so much more. Yet, we hope that you will also gain a sense of who we are, because it is the people of Ashland University, each created to fulfill a particular destiny, that make it so special.

Ashland University has a rich tradition that combines respect for each individual through a commitment to Judeo-Christian values. Ashland University’s emphasis on the unique educational interests and trajectory of every student, reflected in our recurring “accent on the individual,” has created a campus environment that is compassionate, responsive and challenging.

Established on 150 acres and set in one of the state’s most picturesque regions, AU has much of which to be proud: a faculty committed to teaching excellence; a fine staff; an exceptional student body; distinguished alumni; and a community that recognizes our campus as a vital educational, economic, and cultural resource for Northeast Ohio.

One of Ashland University’s great strengths is our rich tradition. From our humble founding in 1878 to the present day, our primary focus is on our students’ success. Our highly qualified faculty and staff offer programs that help students reach their goals. We create opportunities in and out of the classroom for students, faculty and staff to work and learn together, promoting a student-first atmosphere. We are proud that our students bring with them the unique values of their communities, and that our students gain the knowledge and skills that effectively prepare them to live and work in a rapidly changing, global world.

This catalog will be a guide for you, as you literally and figuratively navigate your way through Ashland’s programs, places and people. From your first semester through a graduate program, the details, contact information and general knowledge you need will be found right here.

At Ashland University, we promise “extraordinary happens,” and if you look closely, you will find the extraordinary here. You will find it in our extraordinary faculty, who capture the wonder of learning and transmit it to our students. You will find it on our beautiful campus. You will find it in our academics and athletics, in our Greek societies and the renowned Ashbrook Center. But, most importantly, we hope you will find the extraordinary in yourself. Because, it is Ashland University’s people -- its students, alumni, faculty and staff -- where the extraordinary resides and transforms the ordinary and shapes the future.

Thank you for being a part of Ashland University and Eagle Nation, a place filled with tradition that invites you to devise your own and add to the legacy of this special place.

Carlos Campo, PhD
President
Mission, Identity, Core Values, and Vision of Ashland University

Ashland University

Founded in 1878, Ashland University is a private, comprehensive institution committed to challenging and supporting students intellectually, spiritually, socially, culturally and physically.

Located midway between Cleveland and Columbus off I-71, Ashland University is home to 2,600 full-time undergraduate students. Ninety-two percent of these students are from Ohio, while students also come from 42 other states and 37 countries. The University’s total enrollment is 6,500 students, and this includes graduate programs in business, education and theology and the off-campus centers in Cleveland, Columbus, Mansfield, Massillon and Elyria.

In addition to its traditional undergraduate studies, AU offers alternative programs for adults and non-traditional students through the Founders School of Continuing Education. Degree completion, Associate degree, CEUs, and non-degree opportunities are available through a flexible format that includes online and evening classes. High school students can earn college credit at the University campus or at their high school with participating school districts under the College Credit Plus program. Complementing the undergraduate program is a Master of Fine Arts in Creative Writing; a Master of Arts in American History and Government; a Master of Arts in Health and Risk Communication; a Master of Business Administration degree; a Master of Education degree; a Doctor of Education in Educational Leadership; masters degrees and a Doctor of Ministry degree through the Ashland Theological Seminary; an RN to BSN Track for registered nurses; and a Bachelor’s Plus program for students with a non-education degree who want to teach.

Situated on a beautiful 120-plus acre campus with trees, brick walkways and flower gardens, the University’s campus contains 44 modern buildings including a new 110,000-square-foot Recreation and Rybolt Sport Sciences Center, a new Dwight Schar College of Education, a new Richard E. and Sandra J. Dauch College of Business and Economics, and a renovated Kettering Science Center.

Ashland University takes great pride in its philosophy of "Accent on the Individual" and offers a learning environment in which students can expect personal attention from professors and staff who genuinely care about them and their development. Professors, not graduate assistants, teach the classes and labs.

The University features a strong academic reputation, offering more than 60 majors including toxicology, environmental science, hospitality management and digital media journalism, which are unusual for an institution this size. It also offers most traditional liberal arts majors as well as a wide range of majors in business and education. The education program, which offers pre-K through doctorate level courses, is one of the largest among independent and state institutions in Ohio. Academic programs are enhanced by an Honors Program and the John M. Ashbrook Center for Public Affairs.

Ashland University is proud of its involvement in small town life, which boasts friendly people, a pleasant atmosphere and a peaceful community – all important items in today's society. Security is a priority on the Ashland campus, and a well-lighted campus and an electronic security system in all residence halls illustrate that fact.

Ashland University is known for many things besides its academic programs, including:

* an impressive computer technology infrastructure that features more than 1,000 computers on campus and at off-campus sites. The campus features several large computer labs as well as several buildings and areas that offer wireless access to the campus network.
* the No. 1 student activities programming in the region as awarded by the National Association for Activities.
* a strong Division II athletic program featuring 20 men’s and women’s sports.
Our Mission, Identity, Core Values, Vision

Mission Statement
Ashland University educates and challenges students to develop intellectually and ethically, to seek wisdom and justice, and to prepare for the rigors of living and working as citizens engaged in their local, national and global responsibilities.

Identity Statement
Ashland University is a nationally recognized comprehensive university founded in 1878 by the Brethren Church. The University promotes liberal arts and professional programs for undergraduate and graduate students. Rooted in Christian faith and an unwavering commitment toward accent on the individual, the University provides students an environment that promotes Ashland University's values and respect toward each person.

Core Values
In pursuing its mission, Ashland University:
Accent on the Individual: Pledges the best individual and collective efforts to challenge and encourage each member of the University within a supportive community.
Spirituality and Faith: Affirms Christian values as a core element of the University’s institutional identity, emphasizing faith in God, moral integrity, and respect for the diversity of values and faith that is found in a community of learning.
Character Development: Promotes integrity, self-discipline, responsibility, compassion, leadership, service, and good citizenship.
Academic Freedom: Supports free, open and critical inquiry for both students and faculty that is consistent with intellectual and professional development.
Excellence in Teaching: Emphasizes teaching supported by research and scholarship as the University's central responsibility.

Vision Statement
Ashland University aspires to be the leading private comprehensive university in the Midwest.
Admission Procedures

Ashland University is an Equal Opportunity institution and its programs are available to all students regardless of handicaps, sex, age, race, color, religion, and national or ethnic origin. Each applicant for admission to Ashland University is considered on individual merit. Each applicant's record is reviewed for academic achievement, aptitude, and interest in order to admit those students who possess the ability and motivation to benefit from their enrollment at Ashland University.

Each applicant is highly encouraged to visit the campus and meet with an admission representative. A visit provides additional opportunity for the admission staff to assess the applicant and for the applicant to ask questions of the admission representative, AU students, faculty, coaches, and administrators and to tour the campus and facilities.

The quality of the academic record is shown by an applicant's grades, class standing and difficulty of courses taken. A well-prepared candidate will have four units of English, three units of social studies, three units of science, three units of mathematics, and two units of foreign language. The results of the SAT or the ACT serve as additional indicators of academic aptitude.

Ashland University is very interested in the applicant's record as a school citizen and will accept recommendations from guidance counselors and/or teachers as to ability, motivation, and character.

High School Student

Prior to or early in the senior year of high school, the applicant should:

1. Complete and submit the Ashland University Application for Undergraduate Admission which is online at: www.ashland.edu/apply;
2. Ask the guidance counselor to forward a copy of the high school transcript. Test scores, class rank, and a list of senior courses should be included. (Results of the G.E.D. are recognized);
3. If applicant participated in the College Credit Plus Program, contact the registrar at the college/university attended and request an official transcript be sent to the Ashland University Office of Admission. College credit will be granted for any college-level coursework taken in high school in which a "C-" or better grade is received. Also, college credit may be granted for Advanced Placement (AP) coursework depending on the score on the AP test. (See AP test);
4. All candidates for admission to the freshman class are required to take the ACT (American College Test) or the SAT (Scholastic Aptitude Test). Results may be sent directly to Ashland University using these codes: ACT – 3234; SAT – 1021;
5. Upon high school graduation, a final official transcript must be forwarded to the Ashland University Office of Admission; and
6. Ohio residents must send results of the Ohio Graduation Test to the Ashland University Office of Admission.

High School Equivalence Diploma (GED)

Ashland University will recognize the GED instead of a high school diploma for those applicants who did not graduate from high school. Students may also be required to take the ACT.

Home Schooled Student

An applicant who is home schooled should use the following admission guidelines:

1. Complete and submit the Ashland University Application for Undergraduate Admission which is online at: www.ashland.edu/apply;
2. Submit an accredited diploma, GED, grade transcript, or home school credit evaluation form; and
3. Provide results of a standardized test such as the ACT, SAT, or other state or nationally normed test.

Advanced Placement

As credit may be awarded for students who score a 3.0 or higher on A.P. Exams, please visit www.ashland.edu/admissions/admissions-requirements to see which scores on various A.P. Tests translate into AU course credit.

Adult Study

Adult students interested in enrolling in the online Criminal Justice program should:

1. Complete and submit online application linked to the www.ashland.edu/cjonline website.
2. Admission requirements are similar to any undergraduate or transfer student.
3. Consideration of prior learning should be directed to online Criminal Justice Director, Joe Perry at 419-207-6921.

Transfer Student

A student from an accredited institution of higher learning may be considered for admission as a transfer student to Ashland University provided he or she is in good standing socially and academically with at least a 2.25/4.0 cumulative GPA at the previous college(s) attended.
Credit earned through a recognized accredited college or university will be accepted at Ashland University as long as the credit earned is "C-" or better. Credits will be awarded for specific Ashland University courses when transferable credits are for equivalent courses. When the transferable courses do not have Ashland University equivalents, credits will be awarded as 'elective' credits. A student transferring to Ashland University from other institution(s) of higher learning must meet residence requirements (see index) in order to be eligible for graduation from a baccalaureate degree program. A candidate for a degree must take a minimum of 30 semester hours at Ashland University. The last 12 hours of coursework and at least one half of the student's work in his or her major field must be taken at AU. A minimum of 50 hours must be earned through a four-year college or university. A student interested in transferring to Ashland University should:

1. Complete and submit the Ashland University Application for Undergraduate Admission which is online at: www.ashland.edu/apply;

2. Contact the Registrars at all colleges where coursework was attempted and request that official transcripts be sent to the Ashland University Office of Admission; and

3. Contact the high school guidance office to request that an official transcript be sent to the Ashland University Office of Admission if the applicant has fewer than 45 credit hours (semester) earned. The final decision regarding course-equivalence of transfer credit will be made by the Registrar's Office. A student may receive an unofficial evaluation of credit by visiting www.transfer.org or scheduling an appointment with the appropriate Transfer Coordinator or sending a written request including intended major and transcript(s) to the Office of Admission.

While Ashland University does not formally participate in Ohio's "Statewide Articulation and Transfer Policy," the Transfer Module is one basis for evaluating course equivalencies when transferring general education courses to meet Institutional Baccalaureate Requirements.

**Conditional Admission**

Freshmen not meeting minimum admission standards may be offered conditional admission for their first semester. Full admission to the University is determined at the end of the first semester of enrollment.

Failure to adhere to the Plan for Academic Achievement at any point during the semester may, of itself, constitute grounds for dismissal.

Conditionally admitted freshman students are required to meet with the Center for Academic Support during the summer or the first week of classes to discuss expectations and plans for academic achievement. Academic support options include, but are not limited to, one-on-one meetings with the Center for Academic Support, individual tutoring, restricted course loads, academic advising and success seminars.

Failure to adhere to the expectations set by the Center for Academic Support at any point during the semester may, of itself, constitute grounds for dismissal.

**Readmission**

A student who leaves Ashland University for one or more semesters must submit an application for readmission. The entire previous record of the student is reviewed and favorable action is necessary before the student can register for classes. If readmitted to the university, the student is not guaranteed readmission into the same program. A student may apply for readmission at www.ashland.edu/apply. A student who was academically dismissed is eligible for readmission after a period of one semester. Applications for readmission after dismissal will be reviewed by the Registrar. Applicants must submit a personal statement that includes assessment of past performance along with goals and strategies for future improvements. This may include, but is not limited to, employment, education, and training during absence from Ashland University. A student who has been dismissed a second time may not apply for further reinstatement. A student seeking readmission after an absence of more than one year will be subject to the curricular requirements in effect as of the first registration of classes subsequent to readmission. If the student has attended other schools, transcripts from these schools must be sent to the Office of Admission.

Students seeking readmission after a medical withdrawal must follow the steps under "Readmission after Medical Withdrawal" in the Academic Affairs section of the catalog.

**Special Student**

A special student at Ashland University is one who is not a candidate for a degree. The classification includes transient students in good standing at another institution, certain international students, post-graduate students, and students wishing to attain specific skills such as music or art. A special student does not need to file the regular application for admission. After earning 12 semester hours, a special student must submit an application for admission. To register as a special student, contact the Registrar's Office.

A student who is a college graduate and who submits authenticated evidence of graduation to the Registrar may register for any class without contacting the Office of Admission. If, however, the student is working toward a second degree, or if the student will require the services of Ashland University in securing teacher licensure, the student must fulfill the usual requirements for admission.

**Transient Student**

A transient student must submit a statement of good standing or permission in writing to take courses at Ashland University. He or she is permitted to take a maximum of 18 semester hours, after which the usual requirements for admission must be fulfilled.
Senior Citizen

A senior citizen (age 60 or older) may take classes as a special student at a reduced rate if space is available. No credit is given for the course. The cost is determined at the beginning of each year and published in the Fees and Charges brochure.

Veteran

A veteran needs to file a regular application for admission and follow the appropriate admission process. College credit earned while serving in the military will be evaluated by the Registrar's Office on an individual basis. Eight semester hours of credit will be granted to veterans who have been honorably discharged from military service to the United States. The eight granted credits will provide a waiver for: Lifetime Wellness (2 credits), Accent on Success (one credit), Global Passport Requirement (3 credits), elective credit (2 credits). Any changes in registration must be reported to the Registrar's Office immediately for submission to Veterans' Affairs.

Additional military training maybe considered for academic credit through evaluation of a portfolio by the Prior Learning Assessment Committee.

Auditor

Any regularly enrolled student in the University may audit a course. Other persons who do not wish to receive college credit and who do not meet admission requirements may also register as auditors upon payment of the audit fee and any special class fees (e.g. lab or music fees). Under no circumstances will audit grades later be changed to credit status. A student may not change from audit to credit, and vice versa, after the third week of a semester. Students may not audit more than 16 hours of class without permission from the Academic Advising Office. If auditing a course previously taken for credit, see Repeat Policy for more information.

Second Degree or Major

The applicant who holds a bachelor's degree from an accredited institution may earn a second degree or major in a different field of study. The applicant must meet specific course requirements appropriate to the degree and/or major, and follow the application procedures outlined in the "Transfer Student" section. Ashland University offers the Bachelor's Plus Program for individuals who have a bachelor's degree from an accredited college or university in a field other than education who now wish to teach. For information, contact the Bachelor's Plus Program at 1-800-882-1548, ext. 5298.

Dwight Schar College of Nursing and Health Sciences offers a second degree leading to a Bachelor of Science in Nursing. For information, contact the Graduate, Adult, and Online Admissions Representative for the Accelerated program.

Founders School of Continuing Education

See p. 49 for information about eligibility and the admission process for this program.

International Student

International students are required to have an equivalent of a 2.75/4.0 GPA on the American System, for automatic admission to Ashland University. Students with below a 2.75 GPA will be reviewed for admission on an individual bases. For countries which do not use the grade point average, a determination is made to equate the score to the GPA at previous colleges/universities attended.

The international student should submit the following materials:

1. A completed International Student Application Form;
2. A $50 non-refundable application fee made payable to Ashland University;
3. A bank statement showing the sponsor's ability to support the student with funds equal to or greater than the estimated expenses per year;
4. Academic records from all secondary schools, colleges, or universities attended, both in English and the original language;
5. Results of any state or government comprehensive exams, such as the Baccalaureate or the G.C.E., if applicable;
6. An official TOEFL score of 65 (iBT) or above, or an IELTS score of 6.0 or above. If the TOEFL or IELTS score is below the required level, or these tests have not been taken, the student may enter the Center for English Studies (ACCESS);

After formal admission, the international student will receive a Form 1-20 A-B Certificate of Eligibility for non-immigrant (F-1) student status. This document is then presented to the U.S. Consul in the student's country of residence in order to apply for a visa.

International Student Services provides assistance, orientation, and advising to international students. The office also promotes intercultural contacts and provides student organization programs. The services of Ashland University are designed in accordance with federal rules and regulations concerning foreign students, and the principles and guidelines of NAFSA: Association of International Educators. Visit the website: www.ashland.edu/iss.

International Transfer Student

An international student from a recognized institution of higher learning may be considered for admission as a transfer student to AU provided the student has a 2.75/4.0 cumulative GPA at previous colleges/universities attended.

Credits earned at other colleges or universities will be accepted according to the principles described under the "Transfer Student" section.

To apply as a transfer student, the international student needs to follow the procedures outlined under the "International Student" section. However, since the international student will be transferring into the academic program, a TOEFL score of 70 (iBT) or above is required.
Second and Non-Degree Programs for International Students

The University also offers programs for Second Degree and Non-Degree students. A student who already holds a bachelor's degree from an accredited institution can earn a second degree at Ashland in a different field of study. These programs are generally one to three years in length, depending upon which field of study is chosen.

A student who wishes to study for a period of one year or less might consider the Non-Degree program in which the student can study whatever subjects he or she wishes to study without pursuing a degree.

Both the Second Degree and Non-Degree programs require a score of at least 70 (iBT) on the TOEFL and a GPA of at least 2.75/4.0.

To apply for a Second Degree or Non-Degree program, the international student should follow the application procedures outlined in the "International Student" section.
Finance and Administration

Finance and Administration encompasses those areas directly related to the business operation of the University, including the management of University assets; collection and disbursement of funds; maintenance and protection of the physical plant; food service; health service; personnel and purchasing.

Adult Studies Online Criminal Justice Tuition

The tuition rate is $395/credit hour. This amounts to $1,185 per class and $5,925 for a 15 credit hour term. Tuition and fees are due prior to the start of your first class for each term.

University Fees*

Tuition and fees for the school year 2015-2016 are:

- Tuition Fee* ................................................. $19,298
- Room .............................................................. *5,172
- Meal Plan* ...................................................... 4,430
- Activity Fee (8/hr. part-time) ...................... 220
- Student Health Fee ........................................... 154
- Technology Fee ($15/hr. part-time) .................. 400
- Recreation Center Fee ................................. 170
- *Total .......................................................... $29,844

* This total does not include single or paid double room fee, fraternity fee, and special class fees. Special housing such as apartments, Clayton Hall suites, and fraternities require a different fee structure.

Tuition Fee

The tuition fee permits a student to take from 12 to 19 hours each semester. An additional charge of $886 is made for each semester hour in excess of 19 hours. A student taking less than 12 semester hours pays tuition at the rate of $886 per semester hour.

However, non-probationary sophomore, junior, and senior students in the Honors Program may register for up to 21 hours of course credit without paying for the additional hours over the comprehensive fee. The student must have a college GPA of 3.5, so freshmen are not eligible for this. Hours taken beyond the 21 hour limit will be charged at the regular rate.

Audit Fee

Courses may be audited for $443/hour. A student may audit a course for no additional fee if the student's course load for that term is within the normal 12-19 hours. However, any hours over 19 would have the additional fee. For additional information regarding auditing courses, please see p. 9 of this catalog.

Instructional Supply Fee

Some courses have instructional supply or lab fees. These are listed on the Business Office's website at: http://www.ashland.edu/students/financial-aid/tuition-fees

Room Fee

Below is a list of housing rates for the 2015-16 year. Rates are shown as semester / year.

- Regular Double/Triple ...................... $2,586 / $5,172
- Regular Single................................. $2,786 / $5,572
- Paid Double.................................. $2,959 / $5,918
- Paid Single.......................... $3,335 / $6,670
- Senior Apartments/Mansfield Apt...... $3,027 / $6,054
- Clayton Suite.............................. $2,648 / $5,296
- Clayton Suite Paid Single................. $3,397 / $6,794
- Fraternity Single/Double............... $2,638 / $5,276
- Fraternity Paid Single................... $3,387 / $6,774
- Kappa Sigma Paid Single................. $3,335 / $6,670
- Kappa Sigma Reg Double................. $2,586 / $5,172
- College Avenue Apartments............... $2,884 / $5,768

Board Fee

The fee for the unlimited and the 240 block plan is $4,430 per year. The fee for the 160 block plan is $4,328 per year. The fee for the 80 Block meal plan is $2,214 per year. The 80 Block meal plan is only available to commuter students and apartment housing residents.

Activity Fee

An annual fee of $220 is paid by all full-time students. For part time students the fee is $8 per semester hour. This fee supports numerous social and recreational activities. It partially funds the student center, intramural programs, and department performance programs. It also provides funding for student government organizations, the Campus Activities Board, and the student newspaper and yearbook.

Graduation Fee

This fee applies only to non-traditional undergraduate students in the following programs: Adult Studies, RN-to-BSN, Online Criminal Justice, UG in Elyria, UG in Columbus. The $75 graduation fee provides for a diploma and other commencement items. This is a one-time fee charged at the time of filing for graduation. No person will be allowed to participate in commencement exercises or receive a diploma if the University account is not paid in full. Students eligible for tuition reimbursement from their employers must have all fees and charges paid in full prior to taking final exams during the last semester before graduation. Contact the Business Office or Registrar's Office with any
Insurance

Full-time undergraduate students are automatically included in the accident portion of Ashland University's insurance. Because serious illness may occur, Sickness Insurance coverage is mandatory unless proof of individual/family coverage is provided. For more information regarding cost and coverage period, please visit https://www.ashland.edu/administration/financial-aid/current-students/billing-information/student-health-insurance or contact the Student Accounts Office at 419.289.5958.

Enrollment Deposit

An enrollment deposit of $300 is required for all students who have been accepted and plan to enter college. This deposit will be applied to first semester tuition and is non-refundable after May 1 for fall semester or December 1 for second semester.

A full list of fees and charges are available online through the Business Office’s website: http://www.ashland.edu/students/financial-aid/tuition-fees.

All fees and charges are subject to change at any time by the Board of Trustees.

Terms of Payment

Tuition and fees are due and payable in full on or before August 3, 2015, for fall semester, and on or before January 4, 2016, for spring semester. Statements will only be mailed in July for the Fall semester and in December for new students beginning Spring semester. Students can access their student account statements through WebAdvisor by clicking on the "University Account Statement" link under “Financial Information.”

Interest of 1.5 percent will be charged each month on any unpaid balance. Seniors or students eligible for tuition reimbursement from their employers will not be permitted to take final exams in their last semester or take part in commencement until all accounts are clear with the Business Office.

A person’s account must be paid in full before registration becomes valid and before a person can reside in University facilities.

No person may have official transcripts of his or her records until that person’s account is paid in full.

Payment Options

After scholarships, grants, and loans are applied to a student's account, they have the following payment options:

a.) Payment up front:
   a.) Checks or money orders may be payable to Ashland University.
   B.) MasterCard, Discover, Visa, or American Express. Service fees apply. Call the Student Accounts office. (1-800-882-1548; non-Ohio residents and Ashland County residents call 1-419-289-5085)
   c.) Online - Payments can be made online through the student's WebAdvisor account. Service fees apply.

b.) Monthly payments (due by the 15th of each month) may be made through Tuition Management Systems (TMS). A contract must be made with TMS prior to attending classes and must cover any pending Financial Aid. There is a $55 service fee, but no interest is charged. For more details, please call TMS at (1-800-722-4867) or go to http://ashland.afford.com.

Refund Policy

This refund policy applies to students completely withdrawing from school, not simply dropping a class(es).

Withdrawal is when an enrolled student withdraws from all classes during the term.

Dropping of class(es) is when an enrolled student drops a class (or classes) but is still enrolled for one or more classes in the term.

Withdrawal Procedures

Students who choose to withdraw from the University must complete an official withdrawal request online located at https://www.ashland.edu/administration/content/withdrawal-request-and-information.

If the student is an on-campus residential student, they must officially withdraw from housing with the Residence Life Office.

It is the student's responsibility to contact the Student Accounts Office and the Financial Aid Office to discuss the financial impact of withdrawing.

Adult Studies students who choose to withdraw from the University must go through the official withdrawal process which includes contacting the Program Director, the Office of the Registrar, and the completion of a withdrawal form found on the Office of the Registrar web site. The last day to withdraw from a course and receive a partial refund is the third Friday of a course. This should not be confused with the academic withdrawal period. Academic course withdrawal deadline is the fourth Friday of the course.

Return of Title IV Funds/Institutional Refund Policy

This applies to students who withdraw or are expelled. Refunds for these students are determined according to the following policy:

1. The term "Title IV Funds" refers to the federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Unsubsidized Federal Stafford Loan, Subsidized Federal Stafford Loan, Federal Perkins Loan, Federal Parent PLUS Loan, Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, and Federal TEACH Grant.

2. A student's withdrawal date is:

   * The date the student began the institution's official withdrawal process or officially notified the institution of intent to withdraw; or

   A student's withdrawal date is:

   * The last day of the term in which the student is last enrolled.

   This date is the later of the date a withdrawal request is made, or the date the student is administratively withdrawn because they fail to meet the requirements for continuing enrollment.

   A student's withdrawal date is:

   * The third Friday of a term for students registered for one term only.

   To request a refund online, please go to https://www.ashland.edu/administration/financial-aid/withdrawal-procedures.

   Students who choose to withdraw from the University must complete an official withdrawal request online located at https://www.ashland.edu/administration/content/withdrawal-request-and-information.

   If the student is an on-campus residential student, they must officially withdraw from housing with the Residence Life Office.

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   2. A student's withdrawal date is:

      * The date the student began the institution's official withdrawal process or officially notified the institution of intent to withdraw; or

      * The last day of the term in which the student is last enrolled.

      This date is the later of the date a withdrawal request is made, or the date the student is administratively withdrawn because they fail to meet the requirements for continuing enrollment.

      A student's withdrawal date is:

      * The third Friday of a term for students registered for one term only.

      To request a refund online, please go to https://www.ashland.edu/administration/financial-aid/withdrawal-procedures.
* The student's last date of attendance at a documented academically related activity.

3. Students who are granted a leave of absence are treated in the same manner as students who withdraw from the university.

4. Refund Policy:

* Refunds on all charges including tuition, room and board, and special fees will be prorated on a per day basis up to the 60% point in the term. There are no refunds after the 60% point in time. A copy of the worksheet used for this calculation can be requested from the Ashland University Financial Aid Office.

* Title IV, state and institutional aid is earned in a prorated manner on a per day basis up to the 60% point in the term. Title IV, state, and institutional aid is viewed as being 100% earned after the 60% point in time.

* A refund (if there is one) and an adjusted bill will be sent to the student's home address following withdrawal.

* There are no refunds for courses for which a grade of "I" (incomplete) or "IP" (in progress) is received.

   In accordance with federal regulations, when financial aid is involved, refunds are allocated in the following order: Unsubsidized Federal Stafford Loan; Subsidized Federal Stafford Loan; Federal Perkins Loan; Federal Parent PLUS Loan; Federal Pell Grant; Federal Supplemental Educational Opportunity Grant; Federal TEACH Grant; other Title IV assistance; other federal sources of aid; other state, private and institutional aid; and finally, the student.

   Ashland University's responsibilities in regard to the return of Title IV funds include:

* Providing each student with the information given in this policy;

* Identifying students who are affected by this policy and completing the Return of Title IV funds;

* Calculations for those students;

* Returning any Title IV funds that are due the Title IV programs.

   The student's responsibilities in regard to the return of Title IV funds include returning to the Title IV programs any funds that were disbursed directly to the student and which the student was determined to be ineligible for via the Return of Title IV Funds calculation.

**Appeal Process**

A student who has an issue with the billing or financial aid portion of this policy may write a letter of appeal: c/o Comptroller (billing) or Director of Financial Aid (financial aid), 401 College Ave., Ashland, OH 44805.

If a student is asked to leave for disciplinary reasons, all rights to adjustments from the tuition and fees are forfeited.
Financial Aid

Ashland University provides financial assistance to any qualified and eligible undergraduate student. A qualified student is one who has been accepted for admission to the University, is not on disciplinary probation and is meeting the standards required in the Financial Aid Satisfactory Academic Progress Policy listed at the end of this section. Undergraduate students who are attending less than half-time may qualify for a Federal Pell, Supplemental or TEACH Grant; a Perkins Loan; and/or Federal Work-Study employment.

Financial assistance is awarded on the basis of outstanding scholarship, accomplishments, talents and/or financial need using a combination of available assistance from federal, state, and University sources.

All financial assistance administered by Ashland University is awarded annually. Therefore, students must reapply for financial aid each year and must meet criteria required for renewal.

Students enrolled in study abroad may be eligible for Ashland University grants or scholarships. Contact the Financial Aid Office for more information.

How to Apply for Financial Aid

Students should follow the steps listed below to apply for financial aid. Applications for financial aid will be processed on a first-come, first-served basis, with priority given to those applications submitted by March 15.

1. Apply for admission to Ashland University (incoming students).
2. Student and parent each apply for a PIN (personal identification number) at www.pin.ed.gov to sign the FAFSA online.
3. Complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov
4. Review electronic award and additional required processes at www.ashland.edu/students/financial-aid
   Other forms and procedures may be required in order to receive certain types of aid. For example, all first-time borrowers of federal loans must complete Entrance Loan Counseling and a Promissory Note at www.ashland.edu/students/financial-aid prior to disbursement of funds.

Types of Financial Assistance

Payment of University expenses is primarily the responsibility of the parent and the student. However, a wide variety of financial assistance is available to afford students the opportunity of an education at AU. Types of assistance include scholarships, grants, employment and student and parent loans.

Scholarships and grants are types of gift assistance used for educational expenses that do not require repayment. The Ashland University grants and scholarships listed on the following pages are available only to full-time, regular undergraduate students who are billed the comprehensive rate of tuition, while pursuing their first Bachelor’s degree. This excludes students in these programs from institutional assistance: Founders School of Continuing Education, RN to BSN, Accelerated and Transitional Nursing Students from the previous MedCentral College of Nursing required to graduate by May 2013, and Bachelor's Degree-Completion Programs at LCCC and the Columbus Center. Additionally, Ashland University grants and scholarships are only available during the fall and spring semesters. Student employment and loans are types of self-help assistance that are also used to help cover educational expenses. Student loans are funds which require repayment after graduation or withdrawal from the University.

Financial aid opportunities are described below under the following section headings:

A.) Ashland University Funded Grants and Scholarships
B.) Federal and State Grants and Scholarships
C.) Student Loans
   · Provided by Federal Sources
   · Provided by Private Sources

Attendance at Other Institutions

Students who enroll at other institutions as part of their Ashland University degree (e.g. Art Institute of Pittsburgh) are not eligible for financial aid from Ashland University but must apply for aid at the other institution. Aid available at the other institution may be significantly different from aid offered from Ashland University. Students who will attend Ashland University and another institution simultaneously may be eligible for federal and state aid through a consortium agreement. Contact the Financial Aid Office for more information.

Ashland University Funded Grants and Scholarships

Ashland University offers institutional aid to students who meet the eligibility criteria. Students may qualify for multiple types of aid from the University. These programs may be added together, but the total institutional funds available to any one student will be limited to the full-time cost of tuition ($19,852 for 2014-15) for the fall and spring semesters.

The criteria for all Ashland University scholarships and grants are reviewed each year and may be adjusted for returning and incoming students in future years.
Students who receive Ashland University gift aid may not receive total gift aid (including federal, state, outside and institutional sources) which exceeds the cost of full-time tuition (12-19 credits per semester), room, board, activity fee, technology fee, recreation center fee, and health center fee for students living on campus, or exceeds the cost of full-time tuition, activity fee, technology fee, recreation center fee, and health center fee for students living off campus. Institutional aid will be reduced to prevent the above from occurring.

Outside Awards—Students who qualify for gift aid from outside/private sources are responsible to inform the Financial Aid Office in writing regarding the name of the award, the amount of the award, and the number of years the award is available to the student. Ashland University allows students to benefit from scholarships received from outside/private sources. These funds will be added to the award as long as the student demonstrates sufficient financial need and the total gift aid falls within the parameters noted in the previous paragraph. In the event that aid must be adjusted, student loans and/or Federal Work-Study will normally be adjusted.

AU Incoming Student Scholarships/Awards

AU Academic Scholarships and Awards

First-time freshmen entering AU are eligible for the following scholarships or award based upon their ACT or SAT test score and cumulative high school GPA. A minimum 18 ACT or 860 SAT score and a 2.5 GPA are required. Students may use the Net Price Calculator located on the Financial Aid webpage to estimate their academic and need based aid. Students are not eligible for more than one scholarship from this category.

* President’s Scholarship/Level - renewable with a 3.00 AU GPA
* Provost’s Scholarship/Level – renewable with a 2.75 AU GPA
* Director’s Scholarship/Level – renewable with a 2.00 AU GPA
* Ambassador Award/Level – renewable with a 2.00 AU GPA

Honors Program Scholarship

A $1,500 scholarship available for first-time freshmen accepted into the Honors Program at AU. Students who have been accepted into the Honors Program and who have applied at www.ashland.edu/academics/honors-program prior to March 1st will be considered for this scholarship. The scholarship is renewable for a total of four years with continued participation in the Honors Program.

AU Transfer Student Scholarships Alpha Beta Gamma National Business Honor Society Scholarship

A renewable scholarship for incoming transfer students in the amount of $500. A minimum GPA of 3.0/4.0 and an A.A., A.S., A.A.S., or Canadian Degree equivalent is required. Alpha Beta Gamma designation on transcript is required. The scholarship is renewable with a minimum 3.0 GPA.

Phi Theta Kappa Scholarship

A renewable scholarship for incoming transfer students in the amount of $1,000. A minimum GPA of 3.0/4.0 and an A.A., A.S., A.A.S., or Canadian Degree equivalent is required. Phi Theta Kappa designation on transcript is required. The scholarship is renewable with a minimum 3.0 GPA.

Transfer Scholarship

Incoming transfer students (excludes post-secondary coursework) who have attained a cumulative GPA of 3.0 or higher in college are eligible for this award. The scholarship ranges from $7,000 to $10,000 and is renewable with a cumulative GPA of 3.0 or higher. This scholarship is not available to readmit transfer students.

Additional AU Scholarships/Awards

Alumnus Grant

Children and grandchildren of Ashland University alumni are eligible for this grant. An alumnus is defined as a parent or grandparent who has earned at least 32 undergraduate AU credits or an Ashland University undergraduate or graduate degree. This grant is renewable by maintaining satisfactory academic progress.

Art, Music, and Theatre Scholarships

These departments award scholarships based on talent. Each department requires an on-campus interview. An audition is required for the theatre and music scholarships, while submission of a portfolio is necessary to apply for the art scholarship. These scholarships are renewable by fulfilling certain departmental criteria.

Ashbrook Scholarship

A renewable scholarship based on merit of $2,000 per year. A major or minor in political science or history and a minimum GPA of 3.0/4.0 are required. Applications for the scholarship are available from the Ashbrook Center. Students in the program must maintain a 3.0 GPA to renew the scholarship.

Ashland University Grant

A need-based grant offered to students. In addition to financial need, the grant is based on high school GPA and ACT or SAT scores, or college GPA for transfer students. Renewal is based on the need of the student in subsequent years and the academic performance of the student at Ashland University.
Athletic Scholarship
Men’s and women’s varsity sports offer scholarships to selected athletes. The coaches, under the leadership of the athletic director and in coordination with the Financial Aid Office, determine standards of distribution that follow the guidelines set down by the athletic conference and the NCAA. The coach determines the amount of the scholarship.

Brethren Grant
Students who are members of the Ashland-based Brethren Church are eligible for this grant. A letter from the student’s minister verifying membership is to be sent to the Director of Admission. This grant is renewable by maintaining satisfactory academic progress.

Brethren Summer Ministries Award
Students who participate in the summer ministry program of the Board of Christian Education of the Ashland-based Brethren Church are eligible for this grant for the academic year immediately following their summer of service. The $1,000 grant is renewable with subsequent summers of service.

Endowed Scholarships
Endowed scholarship recipients are selected by the Financial Aid Office. These awards are used primarily to fund the AU Grant and academic awards.

Sibling Grant
This grant is offered when two or more siblings from the same family are full-time undergraduate students at AU both paying the comprehensive rate of tuition. The value of the grant is worth 25% of tuition and will be split equally between the students. Recipients may qualify for other AU grants or scholarships. If the student's need- and merit-based aid from the University exceeds the amount of the Sibling Grant, the student will receive the need- and merit-based aid in place of the Sibling Grant. Each student must maintain a minimum GPA of 2.5 to receive his or her portion of the award. Students who receive an athletic scholarship are not eligible for this award.

Mathematics and Computer Science Department Scholarships
The AU Mathematics and Computer Science Department offers the following scholarships to students who achieve certain results on the noted tests: AMC-12 Scholarship - $2,000 per year; OCTM State Mathematics Contest - $2,000 per year; Contact the Department of Mathematics and Computer Science for more information.

Ministerial Grant
This grant is offered to children of pastors, missionaries and staff who are ordained or licensed and actively serving full-time within the Ashland-based Brethren church or who have retired from full-time service for reasons of age or health. Students who qualify for this grant will receive total AU gift aid equal to 65% of tuition. The grant is renewable with a minimum GPA of 2.5.

Science Scholarship
The University offers science awards to students who receive a superior rating at the Mohican District Science Fair hosted by Ashland University or the Ohio Academy of Science Fair hosted by Ohio Wesleyan University. The amount of the scholarship is $1,000 at the district level and $2,000 at the state level.

Federal and State Grants and Scholarships
Federal Pell Grant
Students seeking financial assistance may apply for this need-based federal grant program by filing the FAFSA. The award ranges from $602 to $5,730 for 2014-15.

Federal Supplemental Educational Opportunity Grant
These federal funds are awarded by Ashland University to students who have a high financial need. To apply, file the FAFSA. The amount of this grant varies.

Federal TEACH Grant
The TEACH Grant provides grant assistance to students completing coursework to begin a career in teaching in a high-need field. The award is up to $4,000 for full-time students in 2014-15. The student must meet eligibility criteria to obtain the grant and fulfill specific federal requirements. Eligibility criteria and federal requirements are listed at www.ashland.edu/students/financial-aid.

Ohio College Opportunity Grant
A need-based grant offered by the State of Ohio is available to eligible students who are residents of Ohio. To apply for this program, a student must file the FAFSA. The amount of the grant is $2,568 for 2014-15.

Ohio National Guard Tuition Grant
This program is offered to eligible members of the National Guard. This grant pays the average state-assisted university’s tuition costs at private institutions recognized by the Ohio Student Aid Commission. The grant is available for undergraduate studies. For further information and application, contact a local Ohio National Guard Armory.

Ohio War Orphan Scholarship
Awarded to students whose parent served at least 90 days of active duty during a declared war or conflict and is severely disabled or deceased as a result of service. Applications are available from high school guidance counselors or veterans offices.

Pennsylvania State Grant
This grant is available to eligible full-time students who are residents of Pennsylvania. To apply for this grant, file the FAFSA or Renewal FAFSA.
Student Loans
The cost of a college education ought to be viewed as a valuable investment in one’s future. It is necessary for most families to borrow to supplement other financial aid to pay for education. Students are wise to borrow the least amount possible during their college career. Repayment normally does not begin until after graduation or withdrawal from college. Students who default on student loan payments will damage their credit ratings and thus their ability to make credit purchases in the future.

Students who will receive aid in excess of their university charges due to receipt of loan funds may request a refund on the first day of school or later by contacting Student Accounts.

Federal Stafford Loan
Stafford Loans are available in the amount of $5,500 for Freshmen, $6,500 for Sophomores, and $7,500 for Juniors and Seniors. Of these amounts, students may qualify for Subsidized Stafford Loans of up $3,500 for Freshmen, $4,500 for Sophomores, $5,500 for Juniors and Seniors. Subsidized Stafford Loans are interest free while the student is enrolled at least half time and are based on financial need as determined by the Financial Aid Office. The remainder of the loan funding comes through the Unsubsidized Stafford Loan which accrues interest while the student is enrolled. The interest of the Unsubsidized Stafford Loan may be capitalized and added to the principal of the loan or payments on interest may be paid while the student is enrolled. The interest rate on the Stafford Loan for 2014-15 is fixed at 4.66% for undergraduate students. Repayment of the loan begins six months after the student ceases half-time enrollment. Independent students are eligible to borrow additional funds as follows: freshmen and sophomores, $4,000 per year; juniors and seniors, $5,000 per year.

Federal Perkins Loan
This long-term, low-interest loan program is designed to assist students who demonstrate financial need through the Free Application For Federal Student Aid. Loans range up to $2,000 per academic year. Repayment and interest on this loan begin nine months after the student ceases to enroll in college on at least a half-time basis. The current rate of interest is 5% and the maximum repayment period is ten years.

Alternative Loans
These are private loans borrowed by the student, usually requiring a credit-worthy co-signer, that provide funding to eligible students up to the cost of education minus any other financial aid. Interest can be paid monthly, quarterly, or capitalized and added to the loan principal until after the borrower ceases to be enrolled at least half time. Always read any potential lender’s information carefully to be fully informed regarding terms of the loan.

Federal Parent Loan
Under this federal program, parents of dependent students may borrow up to the cost of education minus any other financial aid. PLUS Loans have a fixed interest rate of 7.21% in 2014-15. Repayment begins 2 months after the date of full disbursement, but may be deferred while the student is enrolled at least half-time.

Student Employment
At AU, the Federal Work-Study and Regular Student Employment programs employ 400 to 500 students each year. Preference for jobs on campus is available to those who qualify for the Federal Work-Study Program. Jobs may be related to your major or simply a way to earn cash for educational expenses. Jobs are posted at www.ashland.edu/students/financial-aid. Students are paid every two weeks for hours worked and most positions on-campus pay minimum wage.

Federal Work Study
This is a need-based employment program through which several hundred students work each year. Eligible students may earn up to $3,100 per year.

Regular Student Employment
A non-need-based employment program through which students may work on campus.

Resident Assistant
Students selected for these positions (approximately 45 per year) receive free room and a stipend. Various duties focus on development of a floor and hall community. Each RA is responsible for organizing social and educational floor events, participating in conflict resolution activities, responding to crises, serving as a referral source, and assisting with the adjustment issues that face new and returning students. The application and selection process is highly competitive. Applications are available to upper-class students from the Office of Residence Life.

Financial Aid Refund Repayment Policy
Refer to the Refund Policy in the Finance & Administration section of this catalog to review the University’s policy. Financial aid questions related to the policy may be directed to the Financial Aid Office.
Standards of Satisfactory Progress Policy for Regular Undergraduate Financial Aid Recipients

Federal regulations require that an institution develop and enforce a policy for standard satisfactory progress for students who receive financial aid. These standards must be the same or stricter than the standards the institution has for students not receiving aid. This policy is to be applied to students receiving federal and institutional assistance at Ashland University who are enrolled in an undergraduate program. It should be noted that this policy is separate from the academic policy administered by the Academic Standards and Graduation Committee. Students may be allowed to enroll at AU but may not be eligible to receive financial aid due to academic deficiencies.

Interpretation and Enforcement

The Director of Financial Aid will have primary responsibility for the interpretation and enforcement of this policy. Unusual issues related to this policy may be directed to the Financial Aid Committee for consultation.

Definitions of Terms

1. Academic Year: the fall and spring terms of a given year.
2. The status of an undergraduate student according to the credit hours taken in a regular term is as follows:
   - Credit Hours: Status
     - 12 or more: full-time
     - 9-11: three-quarter-time
     - 6-8: half-time
     - 1-5: less-than-half-time
3. Satisfactory Course Completion (for financial aid purposes) is a final grade of "D-" or higher, "S" (Satisfactory) or "CR" (Credit). All others are unsatisfactory.
4. A Repeated Course is one taken again which could affect a student’s cumulative grade point average. Repeated courses will count toward the minimum number of credit hours to be completed per term, but will not affect the cumulative credit hours completed.
5. A Non-credit Remedial Course will not count toward the minimum number of hours required per term or the minimum number of cumulative hours required per academic year.
6. A student on Financial Aid Warning is receiving financial aid, but at the end of the term must show satisfactory academic progress by the required qualitative or quantitative standard.
7. Transfer Hours which are creditable to an Ashland University degree will be rounded down to the nearest multiple of 16 to determine the corresponding terms the student has already used in financial aid eligibility. For example, if a student transfers 45 hours, that student will have used two out of ten terms of financial aid eligibility at the previous school.

Standards and Measurement of Satisfactory Academic Progress

Qualitative Requirements:

Students must achieve the required GPA standards noted below. Terms completed refers to any terms completed at any college.

<table>
<thead>
<tr>
<th>Terms Completed</th>
<th>Minimum Required Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.50</td>
</tr>
<tr>
<td>2</td>
<td>1.80</td>
</tr>
<tr>
<td>4</td>
<td>2.00</td>
</tr>
<tr>
<td>6</td>
<td>2.00</td>
</tr>
<tr>
<td>8</td>
<td>2.00</td>
</tr>
</tbody>
</table>

The student who has not attained the required GPA but has attended fewer than the stated terms shall be placed on Financial Aid Warning. The student with a GPA less than the stated requirement immediately loses eligibility for federal and institutional financial aid. Reinstatement of financial aid eligibility will occur after the student attains the required cumulative GPA at AU subject to Ashland University packaging policies. Students who receive a grade of "F," "W," "IP," or "I" in all courses during any term will immediately lose eligibility for financial aid.

<table>
<thead>
<tr>
<th>Terms Completed</th>
<th>Minimum Required Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Quantitative Requirements:

Students have ten terms of full-time attendance to complete their degree requirements. Students must earn the required hours based on the following:

<table>
<thead>
<tr>
<th>Terms Completed</th>
<th>Minimum Required Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>24</td>
</tr>
<tr>
<td>4</td>
<td>48</td>
</tr>
<tr>
<td>6</td>
<td>72</td>
</tr>
<tr>
<td>8</td>
<td>96</td>
</tr>
<tr>
<td>10</td>
<td>128</td>
</tr>
</tbody>
</table>

Minimum Credits

<table>
<thead>
<tr>
<th>Enrollment Status</th>
<th>To be Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>full-time (12 or more hours)</td>
<td>12</td>
</tr>
<tr>
<td>three-quarter-time (9-11 hours)</td>
<td>9</td>
</tr>
<tr>
<td>half-time (6-8 hours)</td>
<td>6</td>
</tr>
<tr>
<td>less-than-half-time (5 or less)</td>
<td># of hours enrolled for</td>
</tr>
</tbody>
</table>

The student who completes less than the "Minimum Credits to be Completed" in a term will be placed on Financial Aid Warning. The student who completes less than the "Minimum Credits to be Completed" for any two terms will be ineligible for federal and institutional aid until the credits are made up at the student’s expense.
Merit-Based Financial Assistance

Students who are eligible to receive certain scholarships have additional requirements to maintain in order to retain those scholarships. Recipients of the President’s or Transfer Scholarships must maintain a cumulative GPA of 3.0 to continue to receive the award. Recipients of the Provost’s Scholarship must maintain a cumulative GPA of 2.75 or higher to continue to receive the award. Recipients of the Director’s Scholarship or the Ambassador Award must maintain a 2.0 GPA for renewal.

Appeals

A student who is ineligible for financial aid due to not meeting the requirements of this policy may submit a written letter of appeal to the Financial Aid Committee via the Director of Financial Aid. The committee will review the student's appeal and make a final determination as to whether the student will be offered financial aid for another term considering any unusual or extenuating circumstances which may include, but are not limited to, the following:

A. Illness
B. Injury
C. Severe mental or emotional stress
D. Physical or mental hardship

In the event of unusual and/or extenuating circumstances, the Financial Aid Committee may place the student on Financial Aid Warning for another loan term. During this term, the student will be eligible to receive financial aid. The student’s academic status will be reevaluated at the end of the term to determine if the student has met the required standards.

Financial Aid Policy Changes

Financial aid policies and programs are subject to change for all students, regardless of catalog year, under the direction of the Board of Trustees.
Vice President for Student Affairs,  
Dean of Students  
Hannah Clayborne

Mission Statement  
Through a collaborative holistic approach, the primary purpose of Student Affairs is to enhance student learning and personal development congruent with the AU mission. The student learning outcomes for Student Affairs related to the mission are:

Intellectual Development and Wisdom  
* Develop a commitment to lifelong learning  
* Apply critical thinking skills such as analysis, problem solving, decision-making, and goal setting

Ethical Behavior and Justice  
* Develop ethically and morally through Christian values such as compassion, integrity, and honesty  
* Affirm the value of each individual

Global Responsibilities  
* Develop an awareness of history and diverse cultural and aesthetic values  
* Understand our common humanity  
* Respect the expression of others’ points of view

Practical Competence  
* Lead a meaningful and productive life through service to others  
* Develop skills of leadership, teamwork, diplomacy, and civility  
* Gain an understanding of self  
* Develop confidence and a sense of self worth  
* Learn resource management, communication, and interpersonal skills

Campus Creed  
As a member of Ashland University, I will hold myself to the highest standards of academic, personal and social integrity; respect the dignity of each individual; honor the University’s tradition and commitment to Judeo-Christian values; and serve others in our world community. (Written and adopted by Student Senate on the eleventh of April in the year 2000.)

Dwight Schar College of Nursing – Student Life  
Student activities and student organizations such as SCRUBS, and Student Nursing Association are provided for the College. Freshmen and sophomore students are required to live on the Ashland campus unless eligible to commute. Upperclass students are required to reside on the Ashland campus or in Mansfield apartments unless they meet off-campus criteria.

Orientation  
For the majority of new students, orientation is a two-part process that helps ease the transition into university life. First, the one-day summer Drive In program allows students and families to take care of business, learn of services and campus involvement opportunities, and get answers for initial questions through upperclass students, faculty and staff. Second, participation in the fall Orientation Weekend is essential for new students. Students begin to make Ashland their home away from home by creating new friendships and becoming better acclimated with the campus. Special events are also offered specifically for transfer and non-traditional students.

Prior to spring semester, a shortened orientation program is provided for new students and their families. Orientation is conducted by a student orientation team, faculty and administration, and is coordinated through Student Affairs. Further information is located on our website: http://www.ashland.edu/students/campus-life/orientation.

Residence Life  
As a residential campus community, Ashland University requires its students to live on campus and contribute to its environment. Students play an integral part in the creation of programs, as well as housing policies and procedures through their involvement in the hall councils and other student leadership organizations.

All full-time students must reside on campus unless they reside in the permanent, primary residence of their parents/guardian within thirty-five driving miles of Ashland University. Residential students, except those assigned to the Senior and College Avenue apartments, are also required to have a meal plan. Students who are 22 years old prior to September 1 of the current academic year are permitted to reside off campus. Off campus applications are due by March 1 for returning students and are accepted on a rolling basis for new and transfer students. Any student found to be living off campus without authorization will be invoiced for full room and board charges.
Campus Activities

The national award-winning Campus Activities Board and the Student Activities department serve together as a primary resource for campus programming. In addition, there are more than 100 other active organizations and campus groups. Categories include academics, campus services, health and counseling, student conduct system, University policies, residence life, safety services, and student involvement. See it online at https://www.ashland.edu/documents/pdf/student-handbook. A limited number of hard copies are available in the Student Affairs Office. For additional information, please contact Student Affairs 419.289.5304.

Student Handbook

The Student Handbook, developed by students, faculty, administrators, and the Board of Trustees, contains the policies and regulations for Ashland University. Primary handbook content areas include: academics, campus services, health and counseling.

Services

Psychological Counseling Center

Provides personal, social, academic or career counseling to students. These services are free, and personal concerns are kept confidential. www.ashland.edu/students/campus-life/support-services/counseling-services.

Career Services Center

Provides career consultation, programs and a resource room to students and alumni. The center assists students in planning for their careers; researching career fields, internships, graduate schools, and employers; and developing resumes, networking, and job search strategies. Students are strongly encouraged to undertake internship experiences while at Ashland University. The students interested in completing an internship should contact the Career Services Center and his/her faculty advisor, the latter for potential credit. Visit www.ashland.edu/career for more information.

Center for Community Service

Provides opportunities for students to become involved in service on campus and in the surrounding community. The department works with service agencies, academic departments, and public schools, and coordinates service trips. Please feel free to visit www.ashland.edu/students/campus-life/community-service for more information.

Commuter Services

Commuter Services is committed to assisting commuter students by identifying available resources and providing services which foster a successful college experience. Through service, programs, advocacy, and research, commuter students' learning and individual student development is enhanced. For information about the commuter lounge, lockers, and parking, as well as the "Plugged-In" Newsletter and other resources, please visit: www.ashland.edu/students/campus-life/student-activities/commuter-services.

Health Center

Provides confidential medical care for common illnesses and injuries and arranges for consultation with specialists as needed. The services are covered by an undergraduate student health fee and include a gynecology clinic, a sports medicine clinic, and health and wellness education materials. The staff typically consists of the director of health services and counseling, an administrative assistant, a physician assistant, a registered nurse, and a part-time physician. The health center is located on the first floor of the Hawkins-Conard Student Center.

Leadership Development

Leadership initiatives are based on the 5 Practices of Leadership from James Kouzes and Barry Posner. Staff also coordinate the all-campus Leadership and Service Recognition Reception.

Multicultural Student Services

Supports the academic, cultural and social interests of underrepresented students. The office provides programs, seminars and workshops to promote cultural awareness and provide a comfort zone for students of color. Major programs include student mentoring, peer advising, a Martin Luther King celebration, and special event programming. The office also advises the student organization, Diversity on Campus.

Recreational Services

Provides opportunities for students to participate in intramural events, sport clubs, group fitness, special events, wellness, outdoor pursuits, and informal recreation. Facility highlights include the Recreation Center comprised of two gymnasiaums, one multi-purpose area, climbing and bouldering walls, fitness center, weight room, game room, aerobics room, golf simulator, swimming pool, whirlpool, sauna, 3-lane jogging track, and two racquetball courts; and outside, four sand volleyball courts, and intramural/sport clubs field. Membership to the Recreation Center is open to all AU/ATS students, and AU/ATS faculty and staff and their families. Www.ashland.edu/rec-services/
Safety Services on the Ashland Campus

Residence halls at Ashland University are equipped with a computer-controlled, electronic access system which is monitored by Safety Services. Students enter by using individually encoded identification cards. Visit www.ashland.edu/students/campus-life/su

Safety Services on the Mansfield Campus

The Safety Services office works with Schmidt Security Pro for evening coverage (10 p.m. - 6 a.m.) as well as the Mansfield Police Department for the Dwight Schar College of Nursing.
Religious Life

Executive Director of Religious Life Network
Jason Barnhart

Ashland University is a liberal arts university committed to Christian values. The Center of Religious Life exists to support, stimulate, and encourage those values in student life and among the various departments of Ashland University. As such, the Center of Religious Life sponsors and cosponsors a large number of student organizations and activities oriented to the Christian life. In addition, the Center sponsors all-campus convocations each year for the President's Convocation, Christmas, and Martin Luther King Jr. Day. Also a baccalaureate service is planned each year highlighting the graduating class.

Some of the student organizations and activities sponsored by Religious Life are The Well, Fellowship of Christian Athletes, Alabaster (creative arts ministry), HOPE Fellowship (retreats), Isaiah Project (ministry opportunities—campus, community, and world), and several different worship opportunities. For more information, see the website, or call the Religious Life office, ext. 5489.

Athletics

Athletic Director
Al King

Ashland University offers 19 intercollegiate sports - 10 for women and nine for men.

Men’s       Women’s
swimming    tennis
baseball    basketball
basketball  cross country
cross country  golf
football    indoor track
golf        outdoor track
indoor track  soccer
outdoor track  softball
wrestling    swimming

The 2014-15 academic year was another very strong campaign for Ashland University athletics. Across the board, from fall through the spring, the Eagles celebrated a wide range of team and individual accomplishments. The athletic department finished in the Top 10 in the Division II Learfield Sports Directors’ Cup rankings for the eighth academic year in a row. Twelve of Ashland’s 19 sports competed in the NCAA postseason play, and nine Eagle squads ended their respective seasons in the Top 25 in Division II. Twenty-five Ashland student-athletes earned All-American status. For the spring semester, AU student athletes had a 3.10 grade-point average. The cumulative GPA for all AU student-athletes in 2014-15 was 3.11.

Fall Highlights

The Eagle men’s cross country team finished 10th in the country, and two runners - junior Nick Hall and senior Brian Baum - earned All-America status. Ashland’s football team ended its season at 8-2 – the program’s eighth consecutive .500 or better season and its sixth eight-plus-victory season since 2005. For the second consecutive season, the AU women’s soccer team earned a spot in the Great Lakes Intercollegiate Athletic Conference Tournament semifinals.
Winter Highlights

Perhaps the best individual performance of the school year came from junior swimmer Hannah Mattar, who earned three All-American awards and earned enough points by herself for the AU women’s swimming team to place in a tie for 21st at the national meet. The Eagle indoor track and field program reached new heights in 2014-15, as the women’s team was ranked No. 1 in the country for the first time, and both the men’s and women’s teams were ranked No. 1 together for the first time. At nationals, the women were tied for third as a team, and the men placed fourth. Ashland’s women’s basketball team returned to the NCAA Tournament for the first time since its 2013 national title, finishing as Midwest Regional runner-up. Junior wrestler Michael Labry earned his third All-American honor, finishing second at nationals at 133 pounds. The Eagle wrestling team finished 16th in Division II. The AU men’s basketball team returned to the GLIAC Tournament for the first time in three seasons, and its eight-win improvement was the program’s best in nearly three decades.

Spring Highlights

Ashland’s outdoor track and field program earned two more Top-10 national finishes, with the men placing third and the women placing seventh. Senior Drew Windle, in addition to his third consecutive indoor 800-meter national title, won his third straight outdoor 800-meter national championship, and ended his stellar collegiate career with eight overall national titles. The AU women’s golf team tied its best Division II national finish by placing ninth at the national tournament. It was the Eagles’ third national tournament appearance in five seasons. Eagle baseball head coach John Schaly made college history on March 1, 2015, winning his 1,000th career game and joining his late father, Don, as the only father-son tandem at four-year institutions to each win 1,000 games. The Eagles ended the season as Midwest Regional runner-up, and senior second baseman Stephen James earned three All-American awards. Ashland’s softball team made the NCAA postseason for the seventh season in a row, and finished 2015 at 39-10 – its best record in 17 years.

Other Highlights

Ashland University alum Jamie Meder became the first former Eagle to play in a regular-season game for the National Football League’s Cleveland Browns. He played in a backup role along the defensive line for the Browns in their 2014 regular-season finale on Dec. 28 at the Baltimore Ravens, the team who originally signed Meder as an undrafted free agent.

GLIAC Conference Teams

Ashland University
Ferris State University
Grand Valley State University
Hillsdale College
Lake Erie College
Lake Superior State University
Malone University
Michigan Technological University
Northern Michigan University
Northwood University
Ohio Dominican University
Saginaw Valley State
Tiffin University
University of Findlay
Walsh University
Wayne State University
The integration of the liberal arts and career development is a major strength of Ashland University. Through what might be called a synthesis for learning, Ashland University has faced the challenge of, on the one hand, meeting discipline standards for certifications and keeping majors up to date while, on the other hand, preserving the liberal arts and allowing students a measure of flexibility in their course selection. The concept which has evolved contains three primary elements: core requirements, major/minor requirements, and elective courses.

Ashland University intends to liberate the minds of students and to challenge each student to reach their full potential. Academic Affairs works to see that the teaching and program core of the institution allow and encourage that growth.

Academic Affairs is administered by the Provost through the Academic Council.

This catalog and listing of course offerings represent institutional policy and program requirements at the time of print. Students should contact their adviser to discuss any changes to programs or course offerings after print. Revisions to the printed catalog for academic policy changes are available on the Registrar's web page at www.ashland.edu/registrar.

The College of Arts and Sciences
Dean - Dawn Weber, Ph.D.
Associate Dean - Michael Hupfer
Assistant Dean - Cindy Moseman, Ph.D.

Art
majors - art education, commercial art, computer art and graphics programming, fine art
minors - art history, studio art

Biology/Toxicology
majors - biology (with the option of a concentration in forensic biology), biology/environmental science, integrated science education, life sciences education, toxicology
minors - biology, environmental science

Chemistry/Geology/Physics
majors - biochemistry, chemistry, chemistry educ, chemistry/environmental science, earth science educ, forensic chemistry, geology, geology/environmental science, geoscience technology & management, integrated science educ, physical science educ, physics
minors - chemistry, environmental science, geology, physics

Communication Studies
majors - health & risk communication, public relations & strategic communication, sport communication
minor - health & risk communication, public relations

Criminal Justice/Social Work
majors - criminal justice, social work
minors - child and family studies, criminal justice, sociology

English
majors - creative writing, English, integrated language arts education
minors - creative writing, English

Foreign Languages
majors - French, French education, Spanish, Spanish education
minors - global studies, French, Spanish

History/Political Science
majors - history, integrated social studies education, international political studies, political science
minors - history, political science, classical civilization

Journalism and Digital Media
majors - digital media journalism, digital media production
minors - digital media journalism, digital media production

Mathematics/Computer Science
majors - actuarial science, computer science, integrated mathematics education, mathematics
minors - computer science, mathematics

Multidisciplinary Studies
majors - multidisciplinary studies

Music
majors - music, music education, music performance
minors - applied music, music

Philosophy
majors - philosophy
minors - philosophy, ethics

Psychology
major - psychology
minors - psychology

Religion
major - religion
minors - ethics, religion

Theatre
major - theatre
minor - theatre

The Dwight Schar College of Nursing and Health Sciences
Dean - Faye Grund, Ph.D., A.P.R.N.
Health Sciences
major - athletic training, dietetics, exercise science

Nursing
major - nursing
minor – gerontology

The Dauch College of Business and Economics
Dean - Jeffrey E. Russell, Ph.D.
Associate Dean - Raymond Jacobs, Ph.D.

Accounting/IS
majors - accounting, information systems
minors- accounting, information systems

Economics/Finance
majors - economics, finance
minors - economics, finance

Management/International
Business/Entrepreneurship/Supply Chain Mgt.
majors - business administration, business management,
business entrepreneurship, international business, supply chain
management
minors - business administration, business management,
business entrepreneurship, international business, supply chain
management

Marketing/Hospitality Management/Fashion
Merchandising/Sport Management
majors - hospitality management, marketing, fashion
merchandising, sport management
minors - coaching, fashion merchandising, hospitality
management, marketing, sport management

The Dwight Schar College of Education
Interim Dean - Linda Billman, Ph.D.

Center for English Studies (ACCESS)
major - intensive English program

Early Childhood
majors - early childhood, early childhood intervention
specialist

Educational Administration
(see graduate catalog)

Educational Foundations and Instruction
majors - middle grades (4-9), adolescent to young adult (7-
12) [see departmental listings for majors], multi-age (PreK-
12) [see departmental listings for majors]

Inclusive Services and Exceptional Learners
majors - intervention specialist (mild-moderate, moderate-
intensive, or dual license)

Leadership Studies and Educational Administration
(see graduate catalog)

Founders School of Continuing Education
Director, Eugene P. Linton

Programs
Gill Center for Business and Economic
Development/Economics America
Workforce Development
Professional Development Services
Telego Center for Educational Improvement
Prison Programs
Division of Adult Studies
Early College/College Credit Plus

Other Areas under Academic Affairs
Library
Registrar
The Honors Program
Regional Centers
Global Education Office
Center for Academic Success

Degrees Offered by Ashland University
Associate of Arts
Bachelor of Arts
Bachelor of Fine Arts
Bachelor of Music
Bachelor of Science
Bachelor of Science in Athletic Training
Bachelor of Science in Business Administration
Bachelor of Science in Education
Bachelor of Science in Nursing
Bachelor of Science in Social Work
Master of Arts in American History and Government
Master of Arts with Specialization in Teaching American
History and Government
Master of Arts in Health and Risk Communication
Master of Business Administration
Master of Education
Master of Fine Arts in Creative Writing
Master of Science
Doctor of Education in Leadership Studies
Doctor of Nursing Practice

Ashland Theological Seminary
Academic Dean: Paul W. Chilcote, Ph.D.

Degrees Offered by Ashland Theological Seminary
Master of Arts (Biblical, Historical, and Theological Studies)
Master of Arts (Religion)
Master of Arts in Clinical Mental Health Counseling
Master of Arts in Counseling
Master of Arts in Practical Theology
Master of Divinity
Doctor of Ministry

ASSOCIATE OF ARTS INSTITUTIONAL DEGREE REQUIREMENTS

The Associate of Arts degree is designed for those students who are entering careers which do not require four years of college. Ashland University offers an associate degree with concentrations in General Studies (see note below); Art (see Art); and Criminal Justice (see Criminal Justice). The associate degree includes the following core requirements:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundational Courses</td>
<td></td>
</tr>
<tr>
<td>Communication Course</td>
<td>3</td>
</tr>
<tr>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Lifetime Wellness course</td>
<td>2</td>
</tr>
<tr>
<td>Math/Logic course</td>
<td>3</td>
</tr>
<tr>
<td>Religion course</td>
<td>3</td>
</tr>
<tr>
<td>Categories of Knowledge (choose 1 course from 4 of the 5 categories)</td>
<td>12</td>
</tr>
<tr>
<td>Aesthetics course</td>
<td></td>
</tr>
<tr>
<td>Humanities course</td>
<td>(3)</td>
</tr>
<tr>
<td>Natural Science course</td>
<td>(3)</td>
</tr>
<tr>
<td>Social Sciences course</td>
<td>(3)</td>
</tr>
<tr>
<td>Historical Reasoning course</td>
<td>(3)</td>
</tr>
<tr>
<td>Global Passport Strategies *</td>
<td>0-3</td>
</tr>
<tr>
<td>Electives and/or Concentration(s)</td>
<td>28-32</td>
</tr>
<tr>
<td></td>
<td>60 hrs.</td>
</tr>
</tbody>
</table>

*This may be used to satisfy one of the above requirements or taken in addition to the above distribution.

NOTE: For the Associate Degree with a concentration in General Studies, the student chooses the electives of interest to make up the 36 hours above. For specific programs, see the alphabetical listing for that subject.

BACCALAUREATE DEGREES

Ashland University's baccalaureate degree program, with the traditional four-year bachelor degrees, offers its students the wide sampling of courses and opportunities that a well-rounded student needs.

BACHELOR OF SCIENCE DEGREES

Candidates for a BS degree must complete a concentration totaling at least 60 hours in either:

a. A comprehensive major, which is defined as a major that does not require a minor;

b. A major and related concentration totaling at least 60 hours; or

c. A major, related minor and related concentration totaling at least 60 hours

INSTITUTIONAL BACCALAUREATE DEGREE REQUIREMENTS

Institutional Baccalaureate Degree Requirements include: (a) [HON 101, 1 hour (description in Honors program)]; (b) the Core Curriculum, 44 hours (detailed below); (c) a series of Global Passport Strategies, 0-12 hours (options including both Core and non-Core courses).

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(HON 101 1st Year Honors Seminar)</td>
<td>(1)</td>
</tr>
<tr>
<td>Foundational Courses</td>
<td></td>
</tr>
<tr>
<td>Communication course</td>
<td>3</td>
</tr>
<tr>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Lifetime Wellness course</td>
<td>2</td>
</tr>
<tr>
<td>Math/Logic course</td>
<td>3</td>
</tr>
<tr>
<td>Religion course</td>
<td>3</td>
</tr>
<tr>
<td>Categories of Knowledge</td>
<td></td>
</tr>
<tr>
<td>Aesthetics</td>
<td>6</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Historical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>Global Passport Strategies *</td>
<td>0-3</td>
</tr>
<tr>
<td>Electives and/or Concentration(s)</td>
<td>28-32</td>
</tr>
<tr>
<td></td>
<td>60 hrs.</td>
</tr>
</tbody>
</table>

General Goals of the Ashland University Core Curriculum

Our University's institutional mission articulates four key elements, those of intellectual development and wisdom, ethical behavior and justice, preparation for living and working as citizens, and awareness of global responsibilities.

For students to develop intellectually means to think critically with regard to their futures as human beings, as employees and citizens. In terms of our liberal arts core, the development of these skills is best measured in terms of critical thinking skills. As such, the Core seeks measureable student learning outcomes in the areas of critical thinking skills, analytical reasoning, problem solving and written communication skills. These outcomes are measured differently in each Core area, but are focused on ensuring that Ashland University students are acquiring the competencies needed to succeed in the 21st Century Workforce.
**Transfer Students**

Transfer students are defined as those who attended another institution of higher education after high school graduation. Post secondary student credit transfer will be applied to the student academic record based on standard course equivalencies. CLEP, AP, and military credits will be applied to the student academic record based on university guidelines.

1. For students transferring to Ashland University, course credits from other institutions will be evaluated by the Registrar, in consultation with department chairs and the Core Director.
2. Students entering with 30-59 transferrable hours must take at least two Core liberal arts courses (Aesthetics, Humanities, Natural Sciences, Social Sciences, and Historical Reasoning categories) at Ashland and students entering with 60 transferrable hours are required to take at least one Core liberal arts course, even if all Core requirements have been met through courses taken at another institution.
3. Where articulation agreements have been signed with other institutions, university officials will strive whenever possible to recommend courses in keeping with the spirit of AU’s Core Curriculum.
4. Adult Studies students with 60 transfer credits or more are not required to complete an additional core course provided that all core requirements are fulfilled by transfer credit.

**Four Year Graduation Guarantee**

Students entering as freshmen beginning the Fall 2012 semester will have the opportunity to elect a Four Year Graduation Guarantee program. This program guarantees that, provided all academic, advising, and financial guidelines are met by the student, if a degree is not achieved in eight consecutive fall and spring semesters, Ashland University will pay up to one additional year of tuition in order that the degree may be obtained. Students will have an opportunity to apply for this program through the Registrar’s Office by submitting an application along with a four year plan. Students are restricted to one comprehensive major or one major and one minor/endorsement for their Four Year Graduation Guarantee Program.

As not all degree plans are eligible for the guarantee, approval is required by the Registrar for each application. Students accepted for the plan will be required to sign a Federal Educational Rights and Privacy Act waiver for release of student academic and financial information to their parent or guardian.

This guarantee does not apply to students who elect to extend their studies beyond eight semesters to take advantage of research, license, endorsement, minor program opportunities and/or athletic eligibility. Students are expected to adhere to all aspects of the Four Year Graduation Policy found by visiting www.ashland.edu/registrar.

**Three Year Degree Program**

Students planning to complete one of the degree programs listed below in three years should confer with their advisor, plan accordingly, and file a Major Change Form with the Registrar’s Office. Provided that students do not utilize their 19 credits during each of the fall and spring terms, a two credit award will be granted for billing purposes for summer courses when registered for the planned six summer credits.

- Bachelor of Science in Criminal Justice
- Bachelor of Arts in Health & Risk Communication
- Bachelor of Arts in Public Relations & Strategic Communication
- Bachelor of Arts in Sport Communication
- Bachelor of Arts in Psychology
- Bachelor of Science in Psychology
- Bachelor of Arts in Spanish
- Bachelor of Arts in French
- Bachelor of Arts in Music
- Bachelor of Arts in Philosophy
- Bachelor of Arts in Fine Art
- Bachelor of Arts in Business Administration
- Bachelor of Arts in Economics

**Ashland University Students**

Once students enroll at Ashland University, all remaining AU Core requirements must be fulfilled by approved AU courses or by courses at other institutions which are judged appropriate to fit one of the categories of the AU core. Students must fill out a transient student form in advance of taking the course for an evaluation of the proposed transfer course credit.

**List of approved Core Courses:**

NOTE: Courses listed in two different Core categories satisfy either category, but not both.

**Communication**

- COM 101 Human Communication
- COM 120 Foundations of Health Communication

**Composition I**

- ENG 101 English Composition I

**Composition II**

- ENG 102 English Composition II

**Lifetime Wellness**

- HS 180 Lifetime Wellness
- NUR 303 Individual Health

**Math/Logic**

- CS 101 Logic and Computing
- MATH 110 Finite Mathematics
MATH 205 The Calculus I
MATH 208 Elementary Statistics
MATH 217 Theory of Arithmetic and Geometry
MATH 223 Discrete Mathematics I
PHIL 205 Introduction to Philosophy
PHIL 220 Practical Thinking
PHIL 320 Symbolic Logic

Religion
PHIL 217 Thought and Belief
REL 106 Exploring the Bible
REL 107 Exploring World Religions
REL 109 Exploring Christian Ethics
REL 210 The Gospels

Aesthetics
ART 130 Elements of Design
ART 140 Fundamentals of Drawing
ART 150 Art and Ideas
ART 160 Fundamentals of Studio Art (not open to art majors)
ART 160A Ceramics
ART 160B Painting
ART 160C Printmaking
ART 160D Sculpture
ART 160E Digital Art
ART 161 Fundamentals of Studio Art II
ART 161A Ceramics
ART 161B Painting
ART 161C Printmaking
ART 161D Sculpture
ART 204 Photography
ART 205 Sequencing in Art
COM 314/TH 307 Advanced Performance Studies
COM/EDCI 315 International Storytelling
COM/TH 105 Performance Studies
ENG 332 Global Film
ENG 371 Literature & Film
JDM 133 Video and Audio Aesthetics
JDM 232 Video Aesthetics II
MUSIC 010-016, 020, 022, 030, 031, 050-052 (Up to 3 hrs. combine for Core Aesthetics Requirement)
MUSIC 130 Basic Guitar Musicianship
MUSIC 140s, 240s, 340s, 440s (Up to 3 hrs. combine for Core Aesthetics Requirement)
MUSIC 150 Principles of Music Making
MUSIC 225 Musical Style
MUSIC 251 Love Songs
MUSIC 252 Music/Drama Across Cultures
MUSIC 2SGB Teaching Music to Children
TH 203 Theatre Aesthetics
TH 207 The Visual Art of Theatre
TH 208 Vocal Expression of Literature
TH 214 Acting for Non-Majors
TH 303 American Musical Theatre

Humanities
CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force
ENG 203 American Literature
ENG 210 Bible as Literature
ENG 217 British Literature
ENG 304 Short Story
ENG 308 The Poem
ENG 309 African American Literature
ENG 314 Literature and Gender
ENG 315 German Literature in Translation
ENG 316 Postcolonial Literature
ENG 317 Studies in Shakespeare
ENG 319 Modern Drama
ENG 322 Modern Poetry
ENG 324 Modern Novel
ENG 330 African Literature
ENG 333 American Studies — 19th Century
ENG 334 American Studies — 20th Century
ENG 338 Themes and Topics in Literature
ENG 340 Readings in Jewish Literature
ENG 350 Contemporary American Studies
ENG 360 Literature of Crime & Retribution
ENG 365 Greek Literature
ENG 370 Russian Novel
ENG 372 Nietzsche and the Problem of Values
ENG 3SGB Heidegger & the Question of Interpretation
FL 220 Cont. Latin American Literature
FL 221 U.S. Mexico - Border Literature
FL 25GB Paris in Literature
FL 3SGB Quests & Questions in Arthurian Literature, Film, & Life
FL 3SGA French Women Writers
FREN 353 Introduction to French Literature I
FREN 354 Introduction to French Literature II
PHIL 204 The Concept of Truth
PHIL 208 Major Thinkers in Dialogue
PHIL 210 Philosophy of Human Nature
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHIL 215</td>
<td>Ethics</td>
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<tr>
<td>PHIL 280A</td>
<td>Sports and Ethics</td>
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<tr>
<td>PHIL 280B</td>
<td>Environmental Ethics</td>
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<tr>
<td>PHIL 280D</td>
<td>Medical Ethics</td>
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<td>PHIL 280H</td>
<td>Workplace Ethics</td>
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<tr>
<td>PHIL 309</td>
<td>Social &amp; Political Philosophy</td>
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<tr>
<td>PHIL 317</td>
<td>Philosophy of Religion</td>
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<tr>
<td>PHIL 318</td>
<td>Topics in Philosophy</td>
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<td>PHIL 330</td>
<td>Philosophical Readings</td>
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<td>PHIL 450</td>
<td>Great Philosophers</td>
</tr>
<tr>
<td>REL 220</td>
<td>Taking Human Life</td>
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<tr>
<td>REL 240</td>
<td>Jewish Religious Traditions</td>
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<tr>
<td>REL 250</td>
<td>Understanding Islam in Today's World</td>
</tr>
<tr>
<td>REL 308</td>
<td>Political Theology</td>
</tr>
<tr>
<td>REL 340</td>
<td>Religion &amp; the Civil Rights Movement in America</td>
</tr>
<tr>
<td>REL 3SGI</td>
<td>Legacy of Paul and Peter in Rome</td>
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<tr>
<td>REL 3SGK</td>
<td>Paul in the Greco Roman World</td>
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<tr>
<td>REL 3SGL</td>
<td>Luther and the German Reformation</td>
</tr>
<tr>
<td>SPAN 372</td>
<td>Survey of Spanish Literature</td>
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<tr>
<td>SPAN 373</td>
<td>Survey of Latin American Literature</td>
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<tr>
<td>TH 204</td>
<td>Script Analysis</td>
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### Natural Sciences

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 100</td>
<td>Human Biology</td>
</tr>
<tr>
<td>BIO 107</td>
<td>Plants and Civilization</td>
</tr>
<tr>
<td>BIO 110</td>
<td>Ecology &amp; the Human Environment</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Wetlands &amp; Waterways</td>
</tr>
<tr>
<td>BIO 129</td>
<td>Drugs, Poisons, Pollutants</td>
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<tr>
<td>BIO 1SGC</td>
<td>Biology of the Microbes</td>
</tr>
<tr>
<td>BIO 201</td>
<td>Molecular &amp; Cellular Basis of Life</td>
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<tr>
<td>BIO 202</td>
<td>Organisms, Adaptation &amp; Diversity</td>
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<tr>
<td>BIO 2SGI</td>
<td>Cells-The Basis of Life</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 250</td>
<td>Lead &amp; Civilization</td>
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<tr>
<td>CHEM 251</td>
<td>Molecular Architecture</td>
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<tr>
<td>CHEM 252</td>
<td>Chemistry of Crime Scene Investigation</td>
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<tr>
<td>CHEM 253</td>
<td>Chemical Perspectives on Life</td>
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<tr>
<td>CHEM 2SGC</td>
<td>Energy, Matter, and Change</td>
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<tr>
<td>CHEM/GEOL/PHYS/PHIL 350</td>
<td>Science as a Cultural Force</td>
</tr>
<tr>
<td>CS 245</td>
<td>Robotics and Machine Learning</td>
</tr>
<tr>
<td>GEOL 209</td>
<td>Natural Disasters: Volcanoes and Earthquakes</td>
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<tr>
<td>GEOL 210</td>
<td>Natural Disasters: Severe Weather</td>
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<tr>
<td>GEOL 211</td>
<td>Discovering the Ice Age</td>
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<td>GEOL 212</td>
<td>Archaeology &amp; Human Antiquity</td>
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<tr>
<td>GEOL 213</td>
<td>Asteroids, Comets &amp; Catastrophism</td>
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<tr>
<td>PHYS 107</td>
<td>The Hidden Life of the Stars</td>
</tr>
<tr>
<td>PHYS 2SGC</td>
<td>The Science of Sound</td>
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<tr>
<td>PHYS 320</td>
<td>Origins of the Universe</td>
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</tbody>
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### Social Sciences

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DIET 213</td>
<td>Society's Influence on Body Weight/Loss</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Market Fundamentals</td>
</tr>
<tr>
<td>ECON 232</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ECON 233</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>ECON 301</td>
<td>Game Theory</td>
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<tr>
<td>ECON 302</td>
<td>Economics/History of Entrepreneurship</td>
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<tr>
<td>ECON 324</td>
<td>Economics of Government and Business</td>
</tr>
<tr>
<td>ECON 331</td>
<td>Comparative Economics</td>
</tr>
<tr>
<td>EDIS 245</td>
<td>International Perspective on Disability</td>
</tr>
<tr>
<td>FREN 302</td>
<td>French Civilization: Revolution to Present</td>
</tr>
<tr>
<td>HS 201</td>
<td>Impact of Chronic Illness</td>
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<tr>
<td>HSCGH 202</td>
<td>Global Challenges in Public Health</td>
</tr>
<tr>
<td>JDM 403</td>
<td>Mass Media Effects</td>
</tr>
<tr>
<td>JDM 405</td>
<td>Global Impact of Social Media</td>
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<tr>
<td>MUSIC 226</td>
<td>Music in World Cultures</td>
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<tr>
<td>POLSC 101</td>
<td>Understanding Politics</td>
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<tr>
<td>POLSC 345</td>
<td>Western Political Thought III</td>
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<tr>
<td>POLSC 3SGC</td>
<td>Contemporary Germany</td>
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<tr>
<td>POLSC 431</td>
<td>Human Being and Citizen</td>
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<tr>
<td>PSYC 101</td>
<td>General Psychology I</td>
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<tr>
<td>PSYC 102</td>
<td>General Psychology II</td>
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<tr>
<td>PSYC 218</td>
<td>Psychology of Adolescence</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Principles of Sociology</td>
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<tr>
<td>SOC 301</td>
<td>Race Ethnic, and Minority Issues</td>
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<tr>
<td>SOC 340</td>
<td>Marriage and Family Relationships</td>
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<td>SOCWK 230</td>
<td>Global Human Rights and Social Justice</td>
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<td>SOCWK 305</td>
<td>Family Violence</td>
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<td>SOCWK 330</td>
<td>International Perspectives on Women</td>
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<tr>
<td>SPAN 311</td>
<td>Civilization of Spain</td>
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<tr>
<td>SPAN 312</td>
<td>Civilization of Latin America</td>
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### Historical Reasoning

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON 434</td>
<td>Development of Economic Thought</td>
</tr>
<tr>
<td>FREN 301</td>
<td>French Civilization: Medieval to Enlightenment</td>
</tr>
<tr>
<td>HIST 112</td>
<td>Western Civilization</td>
</tr>
<tr>
<td>HIST 113</td>
<td>Western Civilization</td>
</tr>
<tr>
<td>HIST 212</td>
<td>American History through Civil War</td>
</tr>
<tr>
<td>HIST 213</td>
<td>American History after Civil War</td>
</tr>
<tr>
<td>MUSIC 351</td>
<td>Music History I</td>
</tr>
<tr>
<td>MUSIC 380</td>
<td>Music History Seminar I</td>
</tr>
</tbody>
</table>
REL 230 History of Early Christianity
REL 231 History of Medieval & Reform. Christianity
REL 232 History of Modern European Christianity
REL 233 History of Religions in America

Global Passport Strategies (GPS) Initiative
The overall goal of the GPS Initiative is to internationalize our curriculum so as to better prepare students to face conditions of globalization that will greet them upon graduation. The three general paths by which a student can meet this requirement are through language study, travel options, or specially designed coursework.

The "Language Not Previously Studied" option for GPS fulfillment extends to any languages studied in one's high school or previous college career. Students considering this option should confer with their academic adviser.

Students with appropriate military service may elect to complete a narrative illustrating global competencies gained through military service. Students electing this option will enroll in FL 299 and complete a narrative under the direction of the Global Passport Strategies Liaison.

GPS Language courses approved:
FREN 151 Elementary French I
FREN 152 Elementary French II
FREN 200 Intermediate Level Intensive French Study Abroad
FREN 251 Intermediate French I
FREN 252 Intermediate French II
PORT 141 Elementary Portuguese I
PORT 142 Elementary Portuguese II
PORT 241 Intermediate Portuguese I
PORT 242 Intermediate Portuguese II
SPAN 171 Elementary Spanish I
SPAN 172 Elementary Spanish II
SPAN 200 Intermediate Level Intensive Spanish with Study in Costa Rica
SPAN 271 Intermediate Spanish I
SPAN 272 Intermediate Spanish II

GPS Study-away and study abroad components approved:
AHA, Segovia, Spain
American, Quebec City, Canada
CCIS, Aix-en-Provence, France
CCIS, Buenos Aires, Argentina
CCIS, Chambery, France
CCIS, Chicoutimi, Canada
CCIS, Florence, Italy
CCIS, London, England
CCIS, Rome, Italy
CCISA, Seville, Spain
CIS, Barcelona, Spain
COBE in Taiwan
EDEC 460 Sa: Student Internship: Early Childhood through COST (Consortium of Overseas Student Teaching)
ENG 330 African Literature (Sa) Study Tour in Cape Town
Food and Culture of Ireland program
FREN 200 Intermediate Level Intensive French Study Abroad
FUBis, Berlin, Germany
Honors Grecian-Turkish Odyssey proposal
HS 380 Navajo Reservation Cultural Immersion
HS/NURCH 309 International Transcultural Perspectives
Paris Fashion Institute Study Away program in France
REL 260 Short Term Missions
USAC, Alicante, Spain

GPS Border Crossing courses approved:
BIO 107 Plants and Civilization
BIO 348 Emerging Pathogens
BIO/EVS/GEOL 476 Issues in Environmental Science
COM 302 Intercultural Communication
COM/EDCI 315 International Storytelling
ECON 331 Comparative Economics
ECON 342 Global Economics
EDIS 245 International Perspectives of Disability
ENG 315 German Literature in Translation
ENG 316 Postcolonial Literature
ENG 330 African Literature
ENG 332 Global Film
FIN 429 Global Finance
FL 220 Latin American Identities in Translation
FL 221 U.S. - Mexico Border Literature
FL 2SGB Paris in Literature
FL 3SGA French Women Writers
FM 211 Clothing and Culture
FREN 252 Intermediate French II
HIST 327 Africa
HIST 343 Modern East Asia
HIST/POLSC 341 Modern Middle East
HS 221 Food and Culture
HSCGH 202 Global Challenges in Public Health
IS 346 E-Commerce
JDM 405 Global Impact of Social Media
LTN 310 Intermediate Latin
MGT 480 Global Management
MKT 310 International Business Culture
MUSIC 226 Music in World Cultures
MUSIC 252 Music and Drama Across Cultures
MUSIC 381 Music History Seminar II
POLSC 205 Comparative Politics
PORT 242 Intermediate Portuguese II
PSYC 241 Cross-Cultural Psychology
REL 107 Exploring World Religions
REL 250 Understanding Islam in Today's World
REL 260 Short Term Missions
REL 341 World Christianity, Culture & Mission
SMG 370 International Tourism
SMG 435 Global Perspectives in Sport
SOCWK 230 Global Human Rights and Social Justice
SOCWK 330 International Perspectives on Women
SPAN 272 Intermediate Spanish II

Special Academic Programs

Continuing Education
Continuing Education offers students and adults an opportunity to take credit courses and non-credit seminars, workshops and courses. Continuing Education Units (CEUs) are awarded for non-credit offerings, one CEU per 10 contact hours. Professional Development Units (PDUs) are offered for some workshops. Non-credit offerings include, but are not limited to, nursing home administration, real estate licensing, project management, banking, supervisor management, and social service. For more information, contact the Founders School of Continuing Education.

Regional Centers (Undergraduate)
Ashland University has regional centers throughout the state. Those offering undergraduate programs are found in the following areas:
B.S. Ed.: Elyria/LCCC; Columbus
B.S.N.: Mansfield

Class and Coursework Policies

Academic Integrity Policy
Ashland University community strives to model leadership that is based upon Christian beliefs and virtues and that will encourage, develop and sustain men and women of character to serve their professions, their communities, and the world (AU Statement of Ethical Leadership). As members of Ashland University, students hold themselves to the highest standards of academic, personal and social integrity (Ashland University Campus Creed). In keeping with the Ashland University commitment to the highest standards of academic, personal and social integrity, students are expected to abide by the academic integrity standards outlined in this policy.

In addition to plagiarism, fabrication, and cheating, stealing, buying or otherwise obtaining all or part of graded coursework is considered a violation of the Academic Integrity Policy. When a faculty member has not observed a student violating any part of the policy but possesses a firm conviction of academic dishonesty, based on competent and probative evidence, an allegation may be filed with the Registrar.

A full Academic Integrity Policy document can be found in the student handbook and on the Registrar's website (www.ashland.edu/registrar).

Class Attendance and Preparation
Registration is required before attending any course. Students who need assistance with registration should contact the Office of the Registrar.

Properly registered students are expected to attend all class times, including synchronous meeting times for online and hybrid classes.

Classification of Students
Freshman 0 - 29 semester hours completed
Sophomore 30 - 59
Junior 60 - 89
Senior 90 and above

Graduate Coursework Opportunity
Students who meet college level criteria are eligible to register for up to and including 9 graduate credits to be applied directly to their undergraduate degree requirements. Student criteria for participation, set forth by each college, are senior status at the time of the course, 3.0 overall GPA and permission of Advisor, Chair and Dean of the student’s college. For specifics about this opportunity contact your advisor or an advisor in the Center for Academic Success; for specifics about charges and financial aid contact Student Accounts and Financial Aid respectively. All registrations are at the discretion of the graduate program director or Dean. Successfully completed coursework will have both undergraduate and graduate credit value.

Adult Studies students in online programs are not eligible for this option due to the focus and overall goals of the adult studies program.

Conference Courses
When a student is unable to take a course at its regularly scheduled time due to an unavoidable peculiarity in the student's program, the department may agree to offer the course on an individual (conference) basis. The course by conference form may be obtained from the Registrar's Office and must be completed prior to registration. The following procedure is to be used:

1. The student must obtain written permission from the dean of the appropriate college, the department chair of the appropriate department, the student's advisor and the instructor for the course to be taken by conference.
2. The student must then present the form to the Registrar's Office for processing and consent. (See also Registration.)
Elective Internship Program

The opportunity for internship experience is available in many departments. Each department offering credit for internships has separate guidelines and requirements. See the department chair to begin the process. These courses will have the numbers 293, 393, or 493 except for several internship programs which began before the above numbers were chosen.

The educational objectives of the program are:

* Integrate classroom theory with practical application
* Provide an interdisciplinary perspective
* Apply problem-solving, decision-making, and analysis skills
* Develop skills to be a reflective learner
* Encourage self-directed learning

The professional objectives of the program are:

* Develop skills transferrable to long-term career goals
* Provide a realistic view of the work world
* Enhance marketability in the competitive marketplace
* Develop a professional network of contacts
* Test career options; confirm career choice

The University criteria for students to receive credit for the program include:

1. The elective internship experience must be in the student’s major field or an allied field of study.
2. The student must follow individual department internship guidelines to receive credit for internship experiences.
3. Generally, elective internships are evaluated on a satisfactory/unsatisfactory basis. Exceptions may be made by individual departments.
4. The student may apply no more than 16 credit hours in any internship experience toward the 120 semester hours graduation requirement.

The professional objectives of the program include:

1. Apply academic theories and information to actual situations.
2. Test career options; confirm career choice
3. Develop skills to be a reflective learner
4. Encourage self-directed learning
5. Develop skills transferrable to long-term career goals
6. Provide a realistic view of the work world
7. Enhance marketability in the competitive marketplace
8. Develop a professional network of contacts
9. Integrate classroom theory with practical application
10. Provide an interdisciplinary perspective

Elective Service Learning Program

Service learning is a form of experiential education that engages the student in a meaningful application of academic knowledge in significant service to the community. Service learning is a course-based, credit-bearing educational experience and is designed to promote civic responsibility, diversify and expand the student environment, advance professional development, enhance critical thinking skills, and help to create citizens aware of their global responsibilities. It must include orientation or training specific to the service site, meaningful and engaging service, and a structured reflection.

* Orientation/training familiarizes the student with the ideology of service learning, the service site and the expectations of the University, site supervisor and the professor.
* Service must be meaningful and engaging. It must not simply fulfill a need in the community but should also challenge and engage the student beyond the everyday classroom experience.
* Reflection is the purposeful consideration of the service experience with respect to the specific learning objective.

Student Learning Objectives

1. Apply academic theories and information to actual situations.
2. Encourage an understanding of the social and moral implications of education.
3. Develop civic and social responsibility and a concern for the welfare of others.
4. Explore new identities and unfamiliar roles.
5. Develop a conscious set of personal values and beliefs.
6. Acclimate students to new environments and working with people of diverse backgrounds.

**University Criteria**
1. All service learning activities must include orientation, meaningful service and reflection exercise as described in the service learning definition.
2. The service learning portion of all designated service learning courses (Plus One or Integrated Service Learning) will be evaluated satisfactory/unsatisfactory (S/U). The course to which the service learning is attached will be graded according to the course criteria.
3. All courses containing a service learning portion will be designated as such.
4. Acknowledgment of participation in service learning will be indicated on the student's transcript.
5. All students participating in service learning should be flexible and open to new experiences and environments.
6. Students should be prepared to travel off campus.
7. Service learning activities should create joint ventures between students, faculty members and the community.

**Plus One Credit Option (1 Credit Hour)**
1. The Plus One Credit Option must be tied to the academic content of a course with which it is taken. It is not a course in itself—one hour must be attached to an already existing course. The professor of the course must be involved in the development of the learning contract. The contract must state how the learning objectives of the service learning activity coincide with the learning objectives of the course.
2. A student may receive no more than 3 service learning credit hours and only one credit per course. A minimum of 30 hours of service is required for one credit hour.
3. The student must submit a Service Learning Contract to the Center of Community Service before beginning the experience and before registering for the elective credit. The student must be registered for the credit before the last day to add. Any exceptions to this policy are up to the discretion of the Center for Community Service and the Registrar's Office.
4. The service learning credit may not apply toward any major. The exception to that will be when a student has the permission of the Department Chair and the Dean of that College. Both will sign the learning contract and note for which major they are permitting the credit to count.

**Integrated Service Learning (0 Credit Hour)**
1. The Service Learning experience is created and designed by the professor to be a requirement of the course and directly relates to course content. The course syllabus will state how the learning objectives of the service learning activity coincide with the learning objectives of the course.
2. The student must sign up for the 0-credit service learning option concurrently with the corresponding service learning course.
3. The service requirement will be no less than 10 hours and no more than 29.
4. No extra credit hours will be awarded for the service.

**Independent Study Program**

The opportunity for independent study is offered in each department. The objectives of the program are:
1. To broaden the student's knowledge in a chosen field;
2. To demonstrate and develop the ability to study independently; and
3. To demonstrate and develop the ability to conduct an individual research project.

To take Independent Study 498 (1-8 semester hours), a student must obtain an Independent Study Request form from the Registrar's Office and complete it prior to registration. Students must meet the following criteria to enroll:
1. The study must be in the student's major field or an allied field of study.
2. The student must have a 3.0 or better GPA both overall and in the major field.
3. The student must have completed one half of the total semester hours within the major field.
4. The student must have completed 60 semester hours of the total academic program.
5. The student may apply no more than eight semester hours in Independent Study toward the 120 semester hours graduation requirement.
6. Credit in Independent Study may be applied toward a major field requirement only upon the written approval of the department chair.

**Multidisciplinary Major**

The B.A. or B.S. degree in Multidisciplinary Studies (MDS) is an individualized, multidisciplinary degree which allows students flexibility in designing degree programs that relate to their personal academic and career goals. Students will complete the University Core Curriculum requirements, take a cohesive set of courses from two different content areas (cognates), and complete a Multidisciplinary Capstone Experience (3 hours). This degree program will provide a path to achieve baccalaureate degrees for those students whose interests lie in multiple areas and/or whose accumulated semester credit hours may not otherwise combine to qualify them for one of AU's existing baccalaureate degrees.
"Cognate" is defined as a coherent program of study developed in conjunction with a faculty member from that area of study that consists of 24 credit hours minimum. Of those 24 credit hours, at least 9 hours must be 300/400 level courses.

Students selecting the Multidisciplinary Studies Major will be expected to achieve the following student learning outcomes: (1) identify the issues, problems, or goals addressed by each cognate area; (2) demonstrate familiarity with the terminology commonly used in each cognate area; (3) appraise key texts or significant works in each cognate area; (4) explain the mode of inquiry or creative process that characterizes each cognate area; (5) describe how the two cognate areas contrast with each other, or complement one another, in ways that create a greater understanding that either would provide alone; and (6) apply knowledge and skills from both cognate areas to address a relevant problem or issue.

Students must take a minimum of 30 semester hours at Ashland University. The last 12 hours of coursework, and at least one half of the student's work in the two cognate areas, must be taken at AU.

These programs of study are academically rigorous and require significant student initiative. A student will work with two full-time faculty mentors and their respective dean(s), chosen from each of the cognate areas, to design a Multidisciplinary Studies Major which falls within the competence of university faculty. Conceptualizing the major is the responsibility of the student and, in some cases, may be facilitated by using a faculty-designed template. The student prepares a proposal showing a progression of study in consultation with the Coordinator of the Multidisciplinary Studies program and two faculty mentors based in departments that are related to the proposed major.

Admission to the MDS major is not automatic or instantaneous. For instructions on applying for this major, see the Proposal Form posted on the Portal. Click on "Academics;" then click on the heading "Registration." The form is titled "MDS Proposal Form."

Interested students should contact the Coordinator of MDS who will review program requirements, application process, discuss the student's areas of interest, and assist the student in identifying university faculty members who may be of assistance in advising the student (contact information on the Proposal Form).

Once the program is approved by the two faculty mentors, their respective deans, and the Coordinator of MDS, the completed proposal must be submitted to the Registrar's Office for verification and inclusion in the student's permanent file.

Change of Major

Students may elect to change or add majors or minors through the Office of the Registrar. All Major Change Forms require the signature of an advisor. Students may elect to advance in catalog year, however do not have the option to step back in catalog years. Adult Studies students who wish to change majors should contact their advisor as doing so will affect financial aid and tuition costs.

Registration

All registrations are expected to take place during the regularly scheduled registration periods. This would include all course work that is independent study, internship, by conference or otherwise student specific. Adult Studies students will be scheduled by their adviser or the director of the program unless otherwise notified.

Registration drop, add, and withdrawal deadlines are for academic purposes only. All students are responsible for the affect of registration changes to financial aid and student billing. Refer to the appropriate Financial Aid and Finance and Administration sections of this catalog for applicable policies.

Repeat Policy

If a student repeats a course because of receiving a "C-" or lower, the last grade received is the grade earned. All courses and grades remain on the official transcript; however, only the last grade will be used to determine the student's grade-point average. Repeat courses must be taken at Ashland University. Courses with grades higher than C- cannot be repeated for a grade or on an S/U basis unless noted in the course description as repeatable. A student may audit a course previously taken for a grade; however, the previous grade earned will remain on the transcript and will be used to determine the student's grade point average. Audit fees may apply.

Schedule Changes

Students are responsible for reporting all schedule changes to their academic adviser.

Special Group (SG) Studies

Special group (SG) studies are courses developed by faculty and students to meet special needs and interests. These courses are not included in the University catalog, but are listed in the semester schedules.

Adult Studies Semester Load

Adult Studies students should carry an average schedule load of 15 semester hours for each term. Students may register for 21 semester hours without special permission through the Adult Studies Director. Twelve semester hours is considered full time for an Adult Studies student.

Approval for enrollment beyond 21 semester hours is required.
Student Load

An average schedule load of 15 semester hours for each of eight semesters will meet the graduation requirements. Students may register for 19 semester hours without special permission. Twelve semester hours is considered full time during a regular term for an undergraduate student. Students are restricted to a maximum summer course load of 6 semester hours per session and a total of 15 semester hours per summer.

Approval for enrollment beyond 19 semester hours spring or fall and 15 semester hours summer is required. Students with a cumulative grade point average of 3.0 or better may register for up to 21 hours per semester with approval from the student's advisor and chair of the student's major department. Approval for enrollment over 21 hours is required from the student's advisor, chair of the student's major department, and dean. Non-probationary sophomore, junior, and senior students in the Honors Program with an AU GPA of at least 3.5 may register for up to 21 hours of course credit without seeking approval.

It shall be the responsibility of the student to resolve schedule conflicts resulting from overloads. Physical education activities and credit in music ensemble may be added to the scheduled load without being counted as an excessive academic load.

Credit and Grade Policies

Credits

The unit for computing credit is the semester hour, which is equivalent to three 50-minute class per week for at least 16 weeks. For example, a student satisfactorily completing work in a course which meets for recitation 150 minutes per week will receive three semester hours credit at the end of the semester.

Class schedules and expectations are based on requirements of 750 minutes per college credit. Additional expectations of college work are a minimum of two hours per week of homework, reading, or preparation per college credit.

Grades and Quality Points

The system of letter grades and quality points is

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
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<tr>
<td>B+</td>
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<td>B</td>
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<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Other grades are:
- AU - Audit - No Grade or credit assigned. This grade option is not available for private music lessons.
- S - Satisfactory - Applies to work rated "C-" or better.
- U - Unsatisfactory - Applies to work rated "D+" or lower.

I - Incomplete - Applies to work of acceptable quality when the full coursework is not completed because of illness or other emergency. It is never applied to poor work. "I" becomes "F" if not removed by the date specified in the Registrar's calendar and carries the same grade value as an "F" until completed.

IP - In Progress - indicates that the student has not completed the scheduled coursework during the term because the nature of the course does not permit completion within a single term, such as work toward a thesis.

CR - Credit - assigned for satisfactory performance in non-academic courses and applies toward the total graduation requirement but is not used in computation of grade averages.

K - Credits accepted in transfer - recorded on the student's permanent academic record, but not included in the cumulative grade point average.

W - Withdrawn - assigned for official withdrawals during the first three weeks of a semester with no notation on the academic transcript (advisor's signature required); from weeks 4-12 with a notation on the transcript (not calculated in the GPA, and advisor's signature required); and during weeks 13-15 only if a student is withdrawing from the University for the term. The deadline for total semester withdrawal is the last day of scheduled classes before final exams.

NG - No Grade - grade not reported by instructor.

WF - May be assigned by the Registrar for second Academic Integrity Violation.

Students will not earn credit for courses in which grades of F or U are received.

Satisfactory/Unsatisfactory Grade Option

Students with a cumulative grade point average of at least 2.00 for 16 semester hours of earned credit are eligible to register for courses, up to a maximum of seven, for which they earn the usual credit but are evaluated on a "Satisfactory/Unsatisfactory" basis. This opportunity is limited to one course each semester. (Exceptions: Courses offered only for S/U do not count toward the total.) Students with less than 16 semester hours of earned credit and/or less than a 2.00 cumulative grade point average are ineligible for the S/U option. Also, Post Secondary Education Opportunity Students are not eligible for this option.

Courses excluded are those taken to fulfill a major, the business core, Composition I and II in the Core, Honors Program courses, applied music lessons and teaching or pre-professional requisites.

"Satisfactory" means the equivalent of "C-" work or better. Work rated "D+" or lower on the conventional scale would be graded as "Unsatisfactory."
Courses taken under the S/U option will be recorded on the student's permanent record, but not included in the computation of the student's cumulative point hour average. A course in which an "Unsatisfactory" is received does not count toward graduation. Any course in which a "U" or "F" is received may be repeated on a graded basis.

Students will apply for the S/U option in the Registrar's Office at the midpoint of the course. Refer to the Registrar's Calendar for time frames to elect this option.

Adult Studies students taking courses eligible for S/U should contact the Office of the Registrar before the mid point of the five week course to inquire about this option.

Medical Withdrawal

In the event that a student is unable to complete the semester due to a medical condition that prohibits making up missed work, a withdrawal may be processed providing that the following conditions are met:

1. Class absences and missed work can be directly attributed to the medical condition.
2. A qualified health professional verifies in writing that the medical condition prohibits completion of the semester requirements in one of two ways.
   a.) A "non-specific" medical withdrawal notice should be presented in writing to the Registrar. This medical notice (signed by a physician) should state that a medical condition prohibits completion of the semester requirements; and, assign a date of condition onset (to verify times classes were missed).
   B.) A notice of "specific" diagnostic information including all recommendations must be sent to the Health Center Director or Director of Psychological Counseling Services, as warranted. This is to ensure confidentiality and coordinate any recommended treatment or follow-up in the event of readmission.
3. The medical withdrawal process is initiated by the student, the physician, and/or the parent/guardian, not AU.
4. The medical condition fits in one of the following categories: medical illness; mental illness (must include date of psychiatric hospitalization and date of clinical assessment); drug or alcohol addiction; or surgery.

   All medical withdrawals need to be initiated by contacting the Registrar. Once the Registrar has the documentation to support the withdrawal, a "W" will be assigned and the faculty will be notified. Any refunds will be determined based on the effective date of withdrawal. Please refer to the refund policy on page 13.

Readmission after Medical Withdrawal

A notice of "specific" diagnostic information including all recommendations as they apply to readmission must be sent to the Health Center Director or Director of Psychological Counseling Services, as warranted. This is to ensure confidentiality and coordinate any recommended treatment or follow-up. Until this is complete, no readmission can occur.

Grade Reports

Final grades are reported at the close of each term (available on WebAdvisor) and become a part of the student's permanent record. These grades determine academic status, i.e., "good standing," "probation," or "dismissal."

It is the responsibility of the student to report to the registrar any discrepancy on their grade reports within 60 days of the end of the grading period.

At the mid-point of each regular semester, a report will be made by the instructor to a student receiving a "C-" or lower in a course. This information is used for advising purposes and is not a part of the student's permanent record.

Grievance procedure

In cases where a student believes his or her academic rights have been infringed, the student should, if possible, discuss the matter with the instructor involved. If the student wishes to appeal the case, the student must appeal in writing, to the department chairperson and then to the Dean and the Provost, who may confer with the Student Senate President and the chairperson of the Judicial Board in order to assure that the problem is settled satisfactorily.

Prior Learning Credit

Prior learning credit is accepted from recognized institutions and organizations based upon standard policies and practices in higher education. At Ashland University, prior learning may be defined as college-level learning achieved outside the traditional college classroom "prior to" any college coursework in that subject area. Prior learning is distinguished from prior experience by the key word "learning." Prior experience, while it is important, will not necessarily be equivalent to prior learning.

Students achieve competencies through workshops, seminars, personal or professional opportunities, and/or independent study. Prior Learning Credit (PLC) is academic credit awarded for college-level learning obtained outside the traditional college classroom which can be verified by either an academic transcript from an accredited undergraduate institution or via equivalencies determined by the American Council of Education.

A maximum of 32 semester hours credit may be granted and a processing/recording fee may be charged for each credit earned.

Common forms of PLC accepted by Ashland University:

* standardized examinations: Advanced Placement (AP); College Level Examination Program (CLEP); Chauncey Group International (DSST Program), formerly DANTES military; American Council on Education (ACE); professional licensures
* corporate and professional training which demonstrates college-level learning
credit by examination – Enrolled students may obtain credit by examination in any required course. Proficiency must be demonstrated prior to the student's last registration before graduation. Approval also must be given by the department chair concerned and the Academic Standards and Graduation Committee. No such application will be considered for any course which the student has previously taken or in any course for which a waiver has been previously granted. A grade of "B" of better must be obtained on the test to receive course credit; however, a grade of "S" will be entered on the student's record. A processing/record fee will be charged. See Fees and Charges brochure for details.

When considering Prior Learning Assessment credit and transfer credit which reflects the same course work or student learning outcomes, credit from regionally accredited institutions shall take priority for transcripted values.

Transcripts
A copy of a student's academic record (official transcript) is available from the Registrar's Office, Founders Hall, upon receipt of a written request and the required fee. Official transcripts may also be ordered online through the National Student Clearinghouse website. Official transcripts may not be available until after the final grading of that semester and will not be issued if there is an unmet financial obligation to the University.

Probation
Students whose semester GPA falls below 2.00 are subject to probation or dismissal.
Freshman: Between 1.501 and 1.999
Sophomore: Between 1.751 and 1.999
Junior: Between 1.901 and 1.999
Senior: Between 1.950 and 1.999

Students who are on probation must meet with the Center for Academic Support before the end of the first week of classes, to discuss strategies for improving their grade point average and to review their current class schedule. Faculty advisors will also be notified of advisees who are on probation.

Options for support include, but are not limited to individual tutoring, restricted loads, limited co-curricular activities, on-going meetings with the Center for Academic Support, Disability Services, Counseling Services and Career Services. While the University is dedicated to student success, it is ultimately the student's responsibility to improve his/her academic performance.

Students whose semester GPA falls below 2.000 but whose cumulative GPA is above 2.000 will receive a letter of concern from the Registrar's Office and are encouraged to seek support services as needed.

Dismissed
Freshman: At or below 1.500
Sophomore: At or below 1.750
Junior: At or below 1.900
Senior: At or below 1.949

Students who are dismissed and desire immediate reinstatement must document extenuating medical circumstances or non-medical circumstances by filing a written appeal with the University Registrar.

The written appeal and any supporting documentation must be submitted within three weeks of the last day of final exams of the semester in question. This should include specific reasons for past performance, along with defined goals and objectives for the future. Appeals are heard by the Academic Standards and Graduation Committee. All appeals made to the committee and the resulting decisions will become a part of the student's permanent records. All students filing an appeal must notify the Registrar's Office.

Students receiving dismissal after spring semester while enrolled in a summer session may finish the session, however the dismissal, pending appeal, will remain in effect through the fall term regardless of cumulative grade point average.

Any student who is reinstated after filing an appeal must meet with the Center for Academic Support to create a Plan for Academic Achievement and must obtain a minimum semester GPA of at least a 2.500 for the return semester, or obtain a 2.000 cumulative GPA. This plan will include reviewing the student's current major, outlining a plan for improving the GPA, and may, at the suggestion of the Academic Standards and Graduation Committee, also require additional evaluation and action. Such action may include taking a restricted load, taking specific courses, working one on one with the Center for Academic Support, attending required tutorial sessions, not participating in co-curricular activities, and/or being evaluated by a mental health professional.

Following the creation of an acceptable Plan for Academic Achievement and the completion of any tasks immediately required by the plan, the student may register for the coming semester only for courses approved by the Center for Academic Support.

Failure to adhere to the Plan for Academic Achievement at any point during the semester may, of itself, constitute grounds for dismissal. In addition, all information regarding the conditions of the dismissal will be placed in the student's permanent file and will be reviewed in any future probation and dismissal discussions, as well as any application for readmission.

Students not reinstated after filing an appeal are eligible to apply for readmission after a period of one fall or spring semester. During the appeal review, the Academic Standards and Graduation Committee may outline conditions to be observed in the event the student is readmitted.
Unsatisfactory Academic Progress - Written

Appeal required

Students earning a cumulative grade point average placing them in an academic probation status for two consecutive semesters are not eligible to continue enrollment automatically after the end of the second semester. If students feel they have extenuating medical or non-medical circumstances, they may file written appeals for reinstatement as outlined within the Dismissed section of these policies.

Readmission after Dismissal

Students who have been academically dismissed are eligible for readmission after a period of one fall or spring semester. Applications for readmission after dismissal will be reviewed by the Registrar.

Applicants must submit a personal statement that includes assessment of past performance along with goals and strategies for future improvements. This may include, but is not limited to employment, education, and training during absence from Ashland University.

If readmitted to the university, the student is not guaranteed readmission into the same program. Students who have been dismissed a second time may not apply for further reinstatement. Students who are readmitted after one full year (to include one fall and spring term) will be admitted under the current academic catalog.

Registration Cancellation

All students who are dismissed may have their registrations automatically canceled. Students who are reinstated after appeal may not register or attend classes until they have completed their Plan for Academic Achievement, as outlined above. Students who are reinstated after appeal must re-register for classes.

Financial Aid Probation

Students who are not making satisfactory progress toward a degree may be placed on Financial Aid Probation even though they are not on Academic Probation. For information about Financial Aid Probation, contact the Director of Financial Aid.

Graduation Policies

Course Requirements and Grade Point Average

A candidate for a baccalaureate degree must have completed all the course and proficiency requirements for that particular degree and must earn not less than 120 semester hours (60 hours for associate degree) of college work with a grade point average of not less than 2.0. Bachelor of Science in Education, Bachelor of Science in Athletic Training, and Bachelor of Music degrees require an overall GPA of 2.5. The grade point average in the candidate's major field must be at least 2.25 or 2.5 in certain majors.

Degree Applications

Applications for degree are accepted on the following schedule.

By November 1 for May Conferral

By May 1 for August and December Conferral

All coursework, including transfer, independent study, internship, etc. is to be complete before the conferral date. Students who have applied for conferral but have not met all requirements will be conferred on the next available conferral date. Final determination of conferral date is the decision of the Registrar. In no case will a degree be posted to a transcript or diploma issued prior to the scheduled conferral date. Graduation applications for Adult Studies students are due at the beginning of their final semester.

Ashland University Commencement Policy

May Commencement and Conferral - Students conferred for May are permitted to walk in commencement, provided that they have a documented plan for degree completion; degree evaluation must have a status of “pending” or students must have arranged transfer credit through the Office of the Registrar. Latin honors will be published in the commencement program based upon the previous Fall term. Student's final Latin honors will be printed on the diploma and transcript based on all grades. Students with May conferral will be printed in the current commencement program only.

August Conferral - Students to be conferred for August are permitted to walk in the December commencement. Students with an August conferral date will be published in the December commencement program only. Latin honors will be published in the commencement program based upon final grades. Student's final Latin honors will be printed on the diploma and transcript based on all grades. Diplomas for August graduates will be mailed after conferral. Diploma covers will be given at commencement.

December Conferral - Students with a December conferral date will be permitted to walk in the December commencement. Diplomas will be mailed with covers after conferral.

Adult Studies Students - Adult Studies students who are conferred by August of the year may participate in the previous May ceremonies. Students conferred after August are to participate in the following May ceremony.

Residence Requirement (Academic)

A candidate for a degree must take a minimum of 30 semester hours at Ashland University. The last 12 hours of coursework and at least one half of the student's work in his/her major field must be taken at AU. A minimum of 50 hours must be earned at a four-year college or university.

Adult Study candidates for degree must take a minimum of 30 semester hours at Ashland University. The last 12 hours of coursework must be taken at AU. A minimum of 50 course credits must be taken at a four year college or university. Regardless of credits accepted at AU, students must take a minimum of five of the nine online Criminal Justice core courses.
Dean's List
Each semester an honor list (Dean's List) of names is prepared and published. The list is composed of the names of all full-time undergraduate students in the University who have received a grade point average of 3.5 or above for the preceding semester.

Second Degree
Students seeking a second degree after having achieved an initial undergraduate degree, must complete a minimum of 30 credit hours at Ashland University.

Students seeking two degrees simultaneously should petition the Academic Standards and Graduation Committee with a plan for completion and are required to obtain a minimum of 30 additional credits beyond the initial 120 credit hours for the first degree.

Honors and Degrees with Distinction
Valedictorian and salutatorian honors are computed based on the highest and second highest Ashland University GPA of those students with 80 or more institutional credits toward their initial baccalaureate degree. All students, regardless of catalog year, will fall under this policy.

Degrees with distinction will be awarded to graduates with 50 or more Ashland University credits. Only Ashland University grades will be used to assess honors. All students, regardless of catalog year, will fall under this policy. Students may earn latin honors on subsequent undergraduate degrees.

All honors presented at commencement are based on the total GPA up to, but not including the student's final semester. Honors placed on students academic record will be based on all Ashland University coursework.

The averages necessary are:
Summa Cum Laude 3.900 - 4.000
Magna Cum Laude 3.700 - 3.899
Cum Laude 3.500 - 3.699

Academic Honors Program
The academic transcript of each Honors graduate bears the acknowledgment of work completed in the Honors Program. For complete information on the program, see the Academic Honors Program section of the catalog.

Honor Societies based on GPA
Alpha Lambda Delta honors students who, during their first or first two semesters, have achieved a 3.5 cumulative grade point average.

Gamma Alpha Kappa honors graduates who have maintained a 3.6 cumulative scholastic average and have taken all their coursework at AU. This selection is announced at commencement.

Honor Societies for Adult Studies Programs
Alpha Phi Sigma - see Criminal Justice

Honor Societies in the subject areas:
- Alpha Gamma Omega Nu – see Health Sciences
- Alpha Phi Sigma – see Criminal Justice
- Alpha Psi Omega – see Theatre
- Beta Beta Beta – see Biology/Toxicalogy
- Delta Mu Delta – see Business and Economics
- Kappa Delta Pi – see Education
- Omicron Delta Epsilon – see Business and Economics, Economics section
- Lambda Pi Eta - see Communication Studies
- Phi Alpha – see Social Work
- Phi Alpha Theta – see History
- Phi Sigma Iota – see Foreign Languages
- Phi Sigma Tau – see Philosophy
- Pi Mu Epsilon – see Mathematics
- Pi Sigma Alpha – see Political Science
- Psi Chi – see Psychology
- Sigma Gamma Epsilon – see Geology
- Sigma Tau Delta – see English
- Sigma Theta Tau – see Nursing
- Theta Alpha Kappa - see Religion
- Upsilon Pi Epsilon – see Computer Science

Center for Academic Support
Ashland University offers the Center for Academic Support as a key point of contact for academic support services, academic advising, tutoring services, first year programs, retention initiatives and disability services.

Peer Tutoring
Peer tutoring is a free service available to any undergraduate student enrolled in any undergraduate course at Ashland University. Peer tutors are chosen on the strength of their earned grades in the courses being tutored and the recommendation of professors. All requests for individual tutoring are submitted online and are accessed by visiting www.ashland.edu/tutor, selecting the "Request a Tutor" tab and submitting the necessary information. In addition, many regularly scheduled "Drop-In" tutoring sessions are available. Go to the same webpage and select "Drop-In Tutoring" to see the schedule.

Academic Advising
The mission of academic advising at Ashland University is to assist undergraduates by collaborating with them in identifying and pursuing their educational objectives, providing accurate and timely information, and promoting student responsibility and accountability for their own academic, personal and professional success.
Ashland University uses a collaborative advising model that includes both faculty and professional advising. The Center for Academic Support will focus on providing students with a strong foundation for success at Ashland University, while the faculty advisors will focus on the details and issues inherent to their individual majors. Incoming freshmen students will receive individual attention and proactive advising during their first year in college. At the beginning of the spring semester, the Center for Academic Support will begin assigning freshmen to faculty advisors based on their major selection. Undecided students and special populations will continue to be advised by the Center for Academic Support during the spring semester.

Students are strongly encouraged to develop an early and ongoing relationship with both their faculty advisor and the Center for Academic Support. This will enable them to learn curriculum requirements, better understand course demands, adhere to academic policies and deadlines, and to engage in thoughtful exploration and preparation of potential career and graduate school opportunities.

Disability Services

Students who have documentation from a medical doctor, psychologist or psychiatrist for specific learning and/or physical or health handicaps may receive services through Disability Services. The documentation must clearly state the nature of the disability and support the need for accommodations based on the testing and/or medical documentation. Disability Services reserves the right to ask the student to update or to obtain more complete testing before extending services to the student. Reasonable accommodations are on an individual basis and may include relocation of courses for classroom accessibility, sign language interpreters, assistance with learning strategies, taped books, note takers, and test accommodations. For more information, contact Disability Services.

Writing Studio

The Writing Studio is administered through the College of Arts and Sciences. Its primary purpose is to offer individual consultation for papers across the curriculum. Writing Assistants provide guidance and instruction in the following areas: understanding writing assignments and styles, writing the essay and critical analysis, supporting theses, revising for structure and grammar, documenting research, and teaching proofreading strategies.

More intense essay instruction is available to students through a Writing Lab, ENG 110, that is arranged in the Writing Studio. Students may take the lab concurrently with ENG 101 or 102 or by arrangement with any course. The lab course may be taken for a maximum of two credit hours. The Writing Lab allows students to collaborate on a current writing assignment to reinforce skills for college papers.

The Writing Studio is located in 104 Center for the Humanities and is open five days a week during the academic year and by appointment during summer sessions. Hours are posted and students should come to 104 to sign up for appointments. Further information can be obtained from the Writing Studio Director.

Information Technology

The Office of Information Technology, located in 100 Patterson, provides a wide range of computing services to students. The office provides computing support to students for AU email, network, wireless, and other issues. The Technical Support Center (TSC) can be reached at 419-289-5405 or 1-866-434-5222. Open hours are posted at the TSC (100 Patterson) and can be found at http://www.ashland.edu/it.

Computers are available 24 hours a day, 7 days a week via EagleCard access in the 200 Patterson computer lab. This lab has 50 PCs, 3 Apple computers, 2 scanners, black & white and color laser printing (subject to print quota limits).

Computers for homework and other student activities are available in the Hawkins-Conard Student Center (25 systems in various locations), the Library, and Dauch College of Business. Black & white laser printing is also available in these areas. Student-owned systems may be dropped off at the TSC for basic troubleshooting during the open hours (posted on http://www.ashland.edu/it).

Students may also download their free copy of Microsoft Office Professional suite (Mac and PC) at the Tech Support Center portal webpage (https://myau.ashland.edu/Technology/TechSupportCenter/pages/default.aspx).

Pre-Professional Programs

Ashland University will assist students to meet the preparatory professional requirements of the schools they wish to attend. It is the student's responsibility to make early application to the schools of their choice. The following are the minimum course requirements for pre-professional training in the areas indicated. It is recommended that students contact professional schools that they are interested in attending to be sure that their admission requirements are properly met. Students should also discuss their professional ambitions with their advisors in order to get recommendations of courses that will best prepare them for their choice of programs.

Pre-Law

The study of law requires a variety of skills, including critical reasoning, analytical reading, clear writing and self-discipline. Good legal practice requires an appreciation of history, social and political institutions and, in general a developed understanding of human nature. Those approaching a profession in law should possess a morally serious character, since their actions will affect the lives of many people.
We do not believe that any particular major or set of courses uniquely provides these skills and virtues. Thus, Ashland University does not offer a Pre-Law major or minor. We instead believe that a broad background in the liberal arts is the best way to prepare for the study of law, perhaps supplemented by some courses which introduce legal concepts. Students are encouraged to get in touch with one of the Pre-Law advisors through the Center for Academic Success office in order to further define their course of studies.

Pre-Art Therapy

Students interested in Pre-Art Therapy should take a combination of courses found in the Department of Art and the Department of Psychology. Typical requirements for graduate programs in Art Therapy and Counseling include:

* 18 semester hours in studio art to include:
  * Drawing
  * Painting
  * Ceramics
  * Sculpture

* 12 semester hours in psychology:
  * General Psychology
  * Developmental Psychology
  * Personality
  * Abnormal Psychology

* Working with people in a human service context (e.g., though an internship) is also recommended.

These requirements can be completed by earning Bachelor of Arts degrees in both Fine Arts and Psychology. The completion of both degrees is possible within a typical 4-year framework.

Pre-Dentistry

For students interested in Pre-Dentistry, a major in biology, toxicology, biochemistry, forensic chemistry, or chemistry is recommended. Minimum course requirements for admission to dental school typically include:

* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* CHEM 103/104 General Chemistry
* MATH 205/206 The Calculus or MATH 201/202 Calculus
* PHYS 205/206 University Physics or PHYS 201/202 General Physics

* Additional upper level courses in biology and chemistry (specific recommendations available from the departments)
  * Students must maintain a competitive GPA and perform well on the DAT to be considered competitive for admission to dental school.

Pre-Medical Technology

This program is designed to prepare students for acceptance into a school of medical technology following the completion of three years of undergraduate coursework. Following the completion of a medical technology program from an accredited school, the student will be granted the baccalaureate degree from Ashland University as well as a certificate in medical technology from the professional school. Minimum course requirements that are recommended to be completed prior to transfer include:

* Ashland University core requirements
* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* BIO 325-326 Anatomy & Physiology I & II
* BIO 340 Microbiology
* BIO 429 Biochemistry
* BIO 454 Immunology
* CHEM 103/104 General Chemistry
* CHEM 307 Organic Chemistry
* MATH 201 Calculus with Applications
* MATH 208 Elementary Statistics
* PHYS 201/202 General Physics

Ashland University is affiliated with the Cooperative Medical Technology Program of Akron. Students may also choose to apply to one of the other medical technology programs in the state.

Pre-Medicine

For students interested in Pre-Medicine, a major in biology, toxicology, biochemistry, forensic chemistry, or chemistry is recommended. Minimum course requirements for admission to medical school typically include:

* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* CHEM 103/104 General Chemistry
* CHEM 307/308 Organic Chemistry
* MATH 205/206 The Calculus
* PHYS 205/206 University Physics or PHYS 201/202 General Physics

* Additional upper level courses in biology and chemistry (specific recommendations available from the departments)
  * Several factors, including coursework, grade point average, and MCAT performance contribute to a competitive application to medical school.

Pre-Optometry

For students interested in Pre-Optometry, a major in biology is recommended. Minimum course requirements for admission to a school of optometry typically include:

* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* CHEM 103/104 General Chemistry
* CHEM 307/308 Organic Chemistry
* MATH 205/206 The Calculus or MATH 201/202 Calculus With Applications
* PHYS 205/206 University Physics or PHYS 201/202 General Physics
* Additional upper level courses in biology and chemistry (specific recommendations available from the Department of Biology/Toxicology)

Students must maintain a competitive GPA and perform well on the OAT to be considered competitive for admission to optometry school.

Pre-Pharmacy

For students interested in Pre-Pharmacy, a major in biology, toxicology, biochemistry, forensic chemistry, or chemistry is recommended. Minimum course requirements for admission to a school of pharmacy should include:
* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* BIO 325/326 Anatomy and Physiology I & II
* BIO 340 Microbiology
* CHEM 103/104 General Chemistry
* CHEM 320 Quantitative Analysis
* CHEM 307/308 Organic Chemistry
* MATH 205/206 The Calculus or MATH 201/202 Calculus with Applications
* MATH 208 Elementary Statistics
* PHYS 205/206 University Physics or PHYS 201/202 General Physics
* Additional course recommendations are available from the Department of Biology/Toxicology and Chemistry/Geology/Physics

Pre-Physical Therapy

For students interested in Pre-Physical Therapy, a major in biology is recommended. Minimum course requirements for admission to a school of physical therapy typically include:
* BIO 201 Molecular & Cellular Basis of Life
* BIO 202 Organisms, Adaptation, & Diversity
* BIO 325/326 Anatomy and Physiology I & II
* BIO 425 Advanced Human Physiology
* BIO 340 Microbiology
* CHEM 103/104 General Chemistry
* CHEM 320 Quantitative Analysis
* CHEM 307/308 Organic Chemistry
* MATH 205/206 The Calculus
* PHYS 205/206 University Physics or PHYS 201/202 General Physics
* Additional upper level courses in biology and chemistry (specific recommendations available from the departments)

Students must maintain a competitive GPA and perform well on the GRE or MCAT to be considered competitive for admission to a school of veterinary medicine.

Affiliate Programs

Ashland University has affiliate programs with a number of institutions. A student who enters one of these programs at Ashland and who fulfills the institutional requirements for graduation, as well as the program of the cooperating institution, will receive the baccalaureate degree from Ashland University and the professional certificate or degree from the cooperating school or university if applicable.

Students enrolled in study abroad or affiliate programs are not eligible for Ashland University grants or scholarships.

For more information, see the chair of the department offering the affiliate program.

ART - Department of Art
* The Art Institute of Pittsburgh (Pittsburgh, Pa.)

FASHION MERCHANDISING - Department of Marketing/Hospitality Management/Fashion Merchandising
* Fashion Institute of Technology, New York City
* Paris Fashion Institute
Library and Research Resources

Library

Located near the center of the Ashland University Campus, the library symbolizes the University's commitment to the values of learning, research, and exploration in the educational experience of its students. In addition to the main library system, the library at the Ashland Theological Seminary campus is a part of the University system. The resources of both libraries are available to off-campus teaching centers and students through the Internet. The combined holdings of both libraries include 300,000 items. The library has several study rooms and offers a welcoming space where students are encouraged to research, study, or work in groups.

Ashland University students are able to enjoy online access to the library catalog and the library's digital resources from both on and off campus. The library is a member of OhioLINK, a consortium of academic, public, and special libraries across Ohio. Through OhioLINK, Ashland students have access to over 50 million items from all eighty-nine of the participating libraries and more than 100 electronic research databases containing thousands of scholarly journal titles.

The library serves as the federal government document depository for Ashland County. Special collections areas within the library are the Instructional Resource Center, the Lulu Wood Library of Children's Literature, the Harold E. Andrews Collection of Special and Rare Books, the John F. Kennedy Reading Area, the Richard Snyder Poetry Collection, and the Leo and Laura Thomas Numismatic Center. Also housed in the library building are the Center for Academic Support, the John M. Ashbrook Center for Public Affairs, and a 135-seat lecture room.

The library staff is committed to enhancing each student's academic experience by providing the resources, skills and confidence to access, evaluate and synthesize information. To that end, professional reference librarians introduce the basics of information literacy to every incoming freshman class, schedule course-specific research classes for upper-level courses, offer individual research appointments for any student project, and provide reference assistance in person, by phone and by e-mail. Instructional classes are held in the Library Instruction Classroom, a thirty-workstation facility including projection capabilities, which offers students immediate hands-on practice in the skills being taught.

Instructional Resource Center (IRC)

The IRC is located on the second floor of the Ashland University Library. Its collection, Library of Congress Classification L - education, juvenile and young adult literature, and the IRC collections, support the teaching programs and curriculum of the Dwight Schar College of Education.

The IRC circulating collection includes K-12 student and teacher edition curriculum textbooks, activity books, and book kits. Be sure to browse our extensive juvenile collection featuring picture books, juvenile fiction, juvenile non-fiction, big books, chapter books, graphic novels, young adult fiction and young adult non-fiction, and book kits.

Available IRC technology resources include computers, scanners, AU print quota and color printing. AU Library's IRC is a self-serve work area for all Ashland University students, faculty, and staff, offering laminating, binding, resources, Ellison Die Cut Machines, and a library of Ellison dies. The Instructional Resource Center is staffed by a faculty librarian and student workers.

Visit the IRC web site for more information including hours of operation and links to the IRC blog, IRC Twitter, and IRC Pinterest sites. Call the IRC directly at 419-289-5406, on campus ext. 5406.
International Programs

Ashland University educates and challenges students to develop intellectually and ethically, to seek wisdom and justice, and to prepare for the rigors of living and working as citizens aware of their global responsibilities. Opportunities to study, work, travel, and teach away from campus enrich the educational experience by increasing awareness and understanding of other cultures, languages, and lifestyles.

Office of International Student Services

At Ashland University, the presence of international students enhances the educational experience. These students bring new perspectives through participation in classroom and extracurricular activities. Staff members of the Office of International Student Services and the Center for English Studies (ACCESS) work to meet their special academic, linguistic, cultural, and immigration needs. Programs of community outreach facilitate interaction between AU’s international students and the residents of Ashland. Promotion of understanding among people and the development of an appreciation of global issues are the twin goals of our international programs.

Office of Global Education

The Global Education Office promotes learning opportunities for all eligible Ashland University students to gain an understanding of other regions, countries, languages, and cultures through educational travel in the U.S. and abroad.

PRE-APPROVED PROGRAMS
[Semester/Academic Year/Summer]
Ashland University has pre-approved programs in 38+ countries. Students receive credit for courses taken abroad that advance their AU academic program. For a list of AU-approved programs, visit the Abroad Office online at ashland.abroadoffice.net.

EXCHANGE PROGRAMS [Semester/Academic Year]
Spend a semester or academic year studying at one of AU’s partner universities for the same tuition cost as AU. Major/ minor courses as well as core courses are pre-approved. Locations include: France, The Netherlands, Taiwan, Brazil and Spain. See ashland.abroadoffice.net for more information.

AU SUMMER PROGRAMS [4-8 Weeks]
AU in Germany — AU in Germany offers students the opportunity to take two core courses taught by AU Faculty and travel. Students spend one week in Ashland and then travel with faculty members to Wittenberg, Germany for three weeks.

AU in Costa Rica — The best way to learn a language is through an immersion experience. AU in Costa Rica offers students the opportunity to study Spanish for 4-8 weeks, live with a host family, visit exciting sites and even receive customized Spanish language instruction for their particular career field.

AU in France — AU in France is a 6-week summer program designed to provide students with an immersion experience. Students will earn 6 credit hours of French language, participate in excursions and live with French families.

COBE in Taiwan — The College of Business and Economics (COBE) offers students the opportunity to spend six weeks in Taiwan and learn basic Chinese Language, take a course on Taiwanese Business Culture and participate in company site visits.

FACULTY-LED TOURS [1-3 Weeks]
Each year Ashland University coordinates faculty-led tours to locations all over the world from England to Africa to China. These academic programs allow students to accompany one or more faculty members as they explore a focused topic that uses the destination as the classroom. Past programs have traveled to Austria, Belgium, China, Costa Rica, England, France, Germany, Greece, Hong Kong, India, Ireland, Italy, Massachusetts, Mississippi, South Africa and Spain.

STUDENT TEACHING ABROAD [6 weeks]
The College of Education’s Cross-Cultural Internships in Teacher Education (CITE) program offers pre-service teachers the opportunity to complete their student teaching requirement outside of Ohio. Students are assigned to a school that utilizes English as the language of instruction. International locations include: Australia, Bahamas, China, Costa Rica, Ecuador, Finland, Germany, Greece, India, Ireland, Italy, Netherlands, New Zealand, Puerto Rico, South Africa and Taiwan.

Ashland Center for English Studies (ACCESS)
The Ashland Center for English Studies (ACCESS) equips international professionals, undergraduate, and graduate students with the knowledge, skills and experiences in English needed to fully engage with the intellectual, professional and social communities on campus and in university classrooms and acquaint them with American people and culture through real-world experiences, both inside and outside the classroom.
Graduate Programs

Ashland University's Graduate School offers master's degrees through the College of Arts and Sciences and the Dauch College of Business and Economics, and both master's and doctoral degrees through the College of Education. In addition, the University also offers master's and doctoral degrees through Ashland Theological Seminary.

Ashland's graduate programs are offered in an encouraging environment which so many have come to know as characteristic of Ashland University. Ashland's philosophy of "Accent on the Individual" means:

* faculty who are both challenging and supportive
* an environment where students are expected to reach high and to give their best effort
* students can approach faculty about issues related to the course, curriculum or personal needs
* staff who are willing to help students learn how to be successful at Ashland University
* respect for uniqueness of the individual
* faculty who care about teaching, learning and research.

Ashland University holds membership in the Council of Graduate Schools.

Ashland Theological Seminary

Ashland Theological Seminary is a school in the evangelical tradition. It is the largest seminary in the state of Ohio and among the fifteen largest seminaries in the United States and Canada. Accredited by the Association of Theological Schools and the Higher Learning Commission, the Seminary offers the Doctor of Ministry, Master of Divinity, Master of Arts (Biblical, Historical, and Theological Studies), Master of Arts (Religion), Master of Arts in Practical Theology, Master of Arts in Counseling, and Master of Arts in Clinical Mental Health Counseling.

The student body of ATS represents over 70 denominations and parachurch organizations from almost every state of the United States and 10 foreign countries. The faculty are recognized internationally for their commitment to a solidly academic environment and a community where faith and life are nurtured.

The Dauch College of Business and Economics

Master of Business Administration

The Master of Business Administration (MBA) was initially offered by Ashland University in 1978. The program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP) and is a part-time, approximately two-year course of study designed for professionals who are often company sponsored.

Ashland's program combines an emphasis on business theory with practical knowledge gained from work experience. The program seeks to provide students with the opportunity to develop their abilities to lead people, manage resources, understand useful conceptual frameworks for operating a business, enhance personal managerial capabilities and learn how to best integrate individual efforts with those of colleagues. The program emphasizes the perspective of top management and the executive's view of the organization - how to interact and react to external pressures so the organization can survive and meet its goals and objectives.

Highly qualified undergraduate students may be admitted into the MBA program on a conditional basis before completing their undergraduate degree, as part of the accelerated BSBA/MBA program. More information on this program can be found in the Business and Economics section of this catalog.

Ashland offers MBA courses at its main campus in Ashland as well as at an off-campus center in Columbus, and Stark County (Canton) and at sites in Westlake and Medina. Ashland University also offers a totally online MBA program.

Master of Arts in American History and Government

In 2005, Ashland University established a summer Master of American History and Government degree program designed with junior high and high school teachers in mind. The courses are offered only during the summer, a unique feature of this program, making it convenient for teachers from across the nation to enroll. While the program is designed for teachers, the program's coursework is in the substance of history and government rather than in teaching methodology.

The Master of American History and Government provides teachers of American history and government and others an integrated program built around the reading and discussion of original documents. In doing so, the degree program aims to give teachers subject mastery and interpretive skills they need to be confident in their preparation to teach history and government.

The courses are open to degree and non-degree students. The courses are offered as live, interactive online classes and as intensive one-week seminars during which students reside on the Ashland campus. The degree can be completed in as few as four semesters. Those pursuing the degree could complete the program in as few as two years, but have up to ten years to complete the degree requirements.
Master of Arts with a Specialization in Teaching American History and Government

The new Master of Arts with a Specialization in Teaching American History and Government (MASTAHG) offers teachers an integrated program which brings together the resources of Ohio's leading College of Education and the nation's premier liberal arts program for social studies teachers.

Ashland's MASTAHG program is designed to prepare secondary school teachers for the challenge of teaching accelerated courses in American history and US government. The program combines the study of the people, ideas, and events that make up the American experience, with the latest theories in curriculum design and delivery. This dual approach provides teachers with the expertise they need to effectively deliver college-level instruction at the high school level.

Courses are offered both in a traditional classroom setting at the Ashland main campus, at Ashland's regional centers, and online. With a combination of online and on-campus study, the program may be completed in as few as two years.

Master of Fine Arts in Creative Writing

The Master of Fine Arts in Creative Writing program was established in 2006. The program combines online distance learning during fall and spring semesters with intensive 14-day summer residencies at Ashland University. The program has degree tracks in poetry and creative nonfiction only, and is designed for students who have work, family, or other commitments that prevent them from relocating in order to attend graduate school. During the fall and spring semesters in this program, each faculty member is limited to working online with five student writers. During summer residencies, students attend daily writing workshops, readings and seminars.

An emphasis on a mentoring relationship between faculty and students has been a tradition at Ashland University for more than one hundred years. Students in the MFA Program receive the committed individual attention of writers who are eminently qualified in poetry or creative nonfiction, all of whom are experienced educators, and many of whom are also experienced editors or authors of texts on the teaching of writing. The program also brings to campus a group of award-winning visiting writers for each summer residency.

The course sequence is designed to take students through all the stages most writers experience in working toward the completion of a collection of poems or a volume of nonfiction. Students work with instructors individually, through a mentoring process, and collectively as a group, in enhancing their ability to write and effectively edit collections of poetry and nonfiction, and in developing their ability to read and write critically in response to canonized and contemporary literature.

The program is open to students who have completed a four-year undergraduate degree.

The College of Education

Bachelor's Plus

The Bachelor's Plus Program is a graduate program designed to provide initial teacher licensure to people who hold bachelor's degrees from accredited colleges or universities in fields other than education. Ashland University has 19 different options in the Bachelor's Plus Program that lead to licensure to teach in Ohio schools. Each program contains both graduate and undergraduate courses.

Master of Education

Ashland's Master of Education (M.Ed.) degree program was introduced in 1976 and today is one of the largest M.Ed. Programs in the state of Ohio. The program is accredited by the National Council for Accreditation of Teacher Education (NCATE).

The Master of Education Program is designed to provide functionally integrated academic, experimental and field-based study necessary for the personal and professional growth of educators. Toward this end, the program contains three distinct components:

1. a common core of studies focusing on the foundations of education;
2. professional studies emphasizing the integration and application of functional knowledge; and
3. a capstone experience in the form of an inquiry seminar, thesis or internship designed to deepen the student's understanding of self by applying problem solving and decision making techniques.

Courses are available for this degree in the following major program areas:

M.Ed. Curriculum and Instruction with areas of concentration in:
* Intervention Specialist - Mild/Moderate
* Talent Development Education
* Reading and Literacy
* Teacher Leader
* Educational Technology
M.Ed. Educational Administration

Doctor of Education

In 1997, the Ohio Board of Regents authorized Ashland University to offer a Doctor of Education (Ed.D.) degree in Leadership Studies, making Ashland one of only two independent universities in Ohio authorized to offer this particular program.
The major area of study is a concentration in organizational leadership with several core courses developed from the areas of organizational dynamics and policy analysis. Study in quantitative and qualitative research design, the ethics of leadership and related cognate areas complete the doctoral curriculum. A unique characteristic of Ashland's program is its mentorship component which allows students to work with doctoral faculty and the institution which employs the student for the purpose of organizational redesign and renewal. The student will utilize research and the resources of the University to integrate the principles of organizational redesign into his or her workplace.

The Doctoral Program is open to persons involved in multiple disciplines who are interested in organizational leadership in the human services. All classes are taught at the Ashland campus.

Dwight Schar College of Nursing and Health Sciences

Doctor of Nursing Practice/Nursing Practice

The Doctor of Nursing Practice Program (DNP) is a practice-focused degree that prepares nurses to function at the highest level of practice for the current health care environment based on a strong scientific foundation for practice. Emphasis is on evidence-based practice, leadership, cultural competence, organizational analysis, and policy. Students prepare for primary care roles as nurse practitioners.

Master of Science/Applied Exercise Science

The Master of Science with a Specialization in Applied Exercise Science is a focused degree that prepares students for professional practice in the health sciences. The program emphasizes the Strength and Conditioning areas of fitness. Teaching is based on the scientific and physiological basis for sport and exercise, fitness assessment and exercise prescription, and principles of strength and conditioning. Upon completion of the program, students will be prepared to attain National Strength and Conditioning Specialist or American College of Sports Medicine Health/Fitness Instructor certification.
Ashland Theological Seminary

Ashland Theological Seminary is a graduate division of Ashland University under the governance of the same Board of Trustees. The Seminary seeks to fulfill the identity statements of the University, while at the same time being true to its own unique calling as found in its mission statement and other identity statements.

Mission Statement:
Ashland Theological Seminary integrates theological education with Christ-centered transformation as it equips men and women for ministry in the church and the world.

Dean
Paul Chilcote, Academic Dean, Ashland Theological Seminary

Faculty
Richard E. Allison, Professor Emeritus of Christian Education
David W. Baker, Professor of Old Testament and Semitic Languages
Matthew Bevere, Assistant Professor of Ministry
John Byron, Professor of New Testament and Greek
Paul W. Chilcote, Professor of Historical Theology and Wesleyan Studies
Brenda Colijn, Professor of Biblical Interpretation and Theology
David deSilva, Trustees’ Professor of New Testament and Greek
Tony Donofrio, Associate Professor of Counseling
Jerry R. Flora, Professor Emeritus of Theology and Spiritual Formation
Claudia J. Sadler-Gerhardt, Associate Professor of Counseling
L. Daniel Hawk, Professor of Old Testament and Hebrew
Brad Imhoff, Assistant Professor of Counseling
Walter J. Kime, Associate Professor Emeritus of Field Education
Matt Lewis, Assistant Professor of Practical Theology
Douglas L. Little, Professor Emeritus of Pastoral Counseling
David P. Mann, Professor of Counseling
Dawn Morton, Assistant Professor of Christian Formation and Leadership
Terence Mournet, Associate Professor of New Testament
William H. Myers, Professor of New Testament and Black Church Studies
Paul Overland, Professor of Old Testament and Semitic Languages
William P. Payne, Professor of Evangelism/Missions
Melissa W. Corbin Reuschling, Professor of Ethics and Theology
Michael Reuschling, Professor of Counseling

John C. Shultz, Professor of Counseling
Mitzi J. Smith, Associate Professor of New Testament and Early Christianity
Ronald L. Sprunger, Professor Emeritus of Music
Dale R. Stoffer, Professor of Historical Theology
John Swope, Assistant Professor of Practical Theology
Michael B. Thompson, Professor of Practical Theology
O. Kenneth Walther, Professor Emeritus of Greek and New Testament
Terry Wardle, Professor of Practical Theology
JoAnn Ford Watson, Professor of Christian Theology and Spiritual Formation
Lee Wetherbee, Professor of Counseling

President’s Cabinet
Glenn R. Black, Vice President for Student Development
Paul Chilcote, Academic Dean
Kevin Dudley, Vice President for Strategic Partnerships
William Gravitt, Vice President of Institutional Advancement
Roberto Ponce, Vice President of Marketing and Enrollment Management
John C. Shultz, President of Ashland Theological Seminary
Jim Thomas, Director of Operations

Administration
Laura Bedocs, Assistant Registrar, Doctor of Ministry Program
Matthew Bevere, Associate Dean, Doctor of Ministry Program
Charlotte Cole, Executive Assistant to the President
Johnathan Cole, I.T. Specialist
Wanda Coleman, Director of Recruitment, Doctor of Ministry Program
Michael Cook, Program Administrator, City Gates Initiative
Doug Cooper, Director of Lifework Leadership
Thomas Gilmore, Coordinator of Education, Cleveland Center
Nyriea Harrington-Stephens, Coordinator of Education, Detroit Center
Jerrolyn Johnson, Assistant Director, Detroit Center, Director of Detroit Counseling Program
Renee Johnson, Enrollment Counselor, Coordinator of Admissions
Miles Larson, Enrollment Counselor, Coordinator of Student Life
Lynne Lawson, Assistant Director of the Institute of Formational Counseling
Matt Lewis, Director for Excellence in Leadership
Sylvia Locher, Director of the Seminary Library
Lori Lower, Registrar, Seminary
Mary Lutz, Coordinator of Education, Columbus Center  
Jill Slater, Advancement Officer, Grants/Events  
John Swope, Director of Field Education  
Sarah Thomas, Digital Services Librarian  
Angela Weimer, Director of Alumni and Community Engagement

**Philosophy of Theological Education**

In order to carry out its mission, Ashland Theological Seminary brings together faculty with shared commitment to biblical, evangelical faith; the pursuit of excellence in teaching; professional development through continuing education and research; and service to the church and the world. The interdenominational team of educators attempts to create both a community of fellowship and a climate for learning. The faculty recognizes teaching supported by research and scholarship as their central and most important responsibility.

Learners are challenged to ground their Christian identity in an intimate relationship with God as they grow and mature in Christ under the guidance of the Holy Spirit. This growth takes place in the context of a nurturing community that encourages learners to develop and exemplify a Christ-like character. Through the classroom and co-curricular experiences, learners are challenged to clarify their unique calling in the Kingdom of God. The curriculum is designed to develop competence in hermeneutics, biblical studies, history, and theology, as well as ministry areas such as preaching, teaching, leadership, worship, pastoral care, counseling, spiritual formation, missions and evangelism.

The Seminary creates a learning environment that emphasizes both biblical conviction and tolerance. This climate facilitates the appreciation of persons and ideas from diverse Christian traditions within a cross-cultural perspective. Learners are encouraged to deepen their understanding of and involvement in their own denominational traditions. The Seminary models and fosters a commitment to servant leadership according to the example of Jesus and to lifelong learning which balances ministry and family life.

The administration and staff serve an essential role in helping faculty fulfill the mission of Ashland Theological Seminary. Modeling an attitude of servant-leadership, they seek to provide all the necessary institutional resources for all members of the Ashland Theological Seminary community to excel in their areas of ministry and responsibility.

**Centers**

ASHLAND, OH - Students can earn a degree in Master of Arts (Biblical Studies), Master of Arts (Historical & Theological Studies), Master of Arts in Chaplaincy, Master of Arts in Clinical Mental Health Counseling, Master of Arts in Pastoral Counseling & Care, Master of Arts in Spiritual Formation, Master of Divinity or Doctorate of Ministry. We are located at 910 Center Street, Ashland, OH 44805.

CLEVELAND, OH - Students in metropolitan Cleveland can earn a Master of Arts in Black Church Studies, Master of Arts in Practical Theology or Master of Divinity degree completely at our Cleveland Center. Courses are also offered leading to the Doctorate of Ministry in Black Church Studies. We are conveniently located at 6500 Rockside Road, Suite 130 Independence, OH 44131.

COLUMBUS, OH - Our Columbus Center is located at 8425 Pulsar Place, Columbus, OH 43240. Students can earn a degree in Master of Arts in Clinical Mental Health Counseling, Master of Arts in Practical Theology or Master of Divinity.

DETROIT, MI - The Detroit Center offers the Master of Arts in Counseling, Master of Arts in Practical Theology, Master of Divinity, and courses leading to the Doctor of Ministry. We are located in the Centrum Building at 24901 Northwestern Highway, Suite 600, Southfield, MI 48075.
Founders School of Continuing Education

Director
Eugene P. Linton

Director, Gill Center for Business and Economic Education and Outreach Programs
John Dowdell

Director, Division of Adult Studies and Veteran Services
Eugene P. Linton

Site Directors
Chillicothe Correctional Institution, Jeremy Vogel
Grafton Correctional Institution, Jeremy Vogel
Lake Erie Correctional Institution and Grafton Camp, Jeremy Vogel
Mansfield Correctional Institution, David Webb
Richland Correctional Institution, Sandra Evans

Director, Online Criminal Justice Program
James Parks

Mission
The mission of the Founders School of Continuing Education is to provide high quality educational opportunities for adult learners in unique, innovative and collaborative environments that meet the 21st century needs of the business, education and professional communities.

The Gill Center for Business and Economic Education
The Gill Center for Business and Economic Education facilitates a flow of economic and business intelligence and know-how to students, teachers and business professionals at all levels of education. The Center’s staff provides pre-service and in-service teacher training through professional development programs, graduate level courses, and classroom curriculum materials. The Center also conducts economic research which provides the student with practical experience and simultaneously serves the business community. The tenet of private enterprise – freedom of enterprise, freedom of individual choice, and freedom to gain from one’s efforts – is foundational the Center’s programs.

One of the building blocks of a free society is a market economy where individual choice is valued and individual effort is rewarded. These concepts imply responsibility both for oneself and to the community. While we believe that freedom is natural to humans, we also believe that it must be nourished through education.

The Gill Center specifically promotes increased knowledge of the private enterprise system in its various education, public, business, and government constituencies.

Ashland University’s Gill Center for Business and Economics Education is dedicated to improving our youths’ understanding of economic principles and the global economy. Working with teachers and school systems we strive to prepare students to be knowledgeable consumers, prudent savers and investors, productive members of the workforce, responsible citizens and effective participants in the global economy. The Center is affiliated with the Ohio Council on Economic Education (www.ocee.org) and the Council for Economic Education (www.councilforeconed.org).

Corporate Education
The Corporate Education Program was established to better serve the needs of the business community. Ashland University is in a position to offer services to business and industry throughout northeastern Ohio. This program provides business and industry with on-site training and services tailored to the needs of the organization.

Chillicothe Correctional Institution, Grafton Correctional Institution, Lake Erie Correctional Institution, Richland Correctional Institution and the Mansfield Correctional Institution Programs
These programs provide inmates with a recognized educational certificate program. The certificates include Basic Business, Business Management, Hospitality Administration, Hospitality Sales, Hotel/Restaurant Administration, Hotel/Restaurant Management, Office Management, Office Skills, Retail Administration, Retail Management, and Retail Sales.
Adult Studies
Ashland University offers adults and non-traditional students alternative programs designed to meet their unique educational needs as part of the Founders School of Continuing Education. This program is offered on the Ashland campus. The program can be the beginning, a continuation, or the completion of an Associate or Bachelor’s degree. Classes generally meet one evening per week and some classes are offered in an online format. Students admitted into the program may take day classes if their schedules permit.

AU offers an Associate of Arts degree in General Studies which can be customized to meet the student’s academic needs and interests, and a Bachelor of Science in Business Administration with majors in business management or marketing. A student who has already earned an Associate degree in Criminal Justice may take the Bachelor of Science degree with a comprehensive major in Criminal Justice. For those students interested in the Associate of Arts degree, a maximum of 70 cumulative semester hours can be earned without special permission from the program director.

Degrees Offered
An Associate of Arts degree in General Studies and a Bachelor of Science in Business Administration with majors in Business Management or Marketing

Degree Requirements
See Business and Economics Degree Requirements - Bachelor of Science in Business Administration with majors in Business Management or Marketing

Admission Requirements Adult Studies
To qualify for admission into the Founders School program, the student must meet the following criteria:
1. The student must be admitted in the Founders School program in an approved program or major.
2. The student cannot receive Ashland University institutional aid. (Federal Pell grants, Ohio Instructional grants, and student loans are not considered institutional aid.)
3. The student cannot live in Ashland University residence halls.

Mission
The Online Criminal Justice Adult Studies Program offers adults and non-traditional students an alternative option to earning their Bachelor of Science Degree with a major in Criminal Justice. The Program is flexible enough to meet the needs of the working adult interested, or those currently working, in the criminal justice field including law enforcement, corrections, probation or parole, or the court system. Regardless of credits accepted at AU, Online Criminal Justice students must complete 5 of the 9 major courses at Ashland University.

Classes are designed in five-week format and delivered by instructors who have real-life work experience, knowledge, and education in the criminal justice field. Classes are asynchronous and can be completed at your convenience. There are no site visits or campus classes to attend and students have access to courses 24 hours a day.

Certificate Programs
Paralegal Certificate
This intensive program is designed for beginning as well as advanced legal workers. Training includes instruction on how to assist trial attorneys, interview witnesses, investigate complex fact patterns, research the law, and assist in preparing cases for courtroom litigation. The instruction is practice-oriented and relates to those areas of the law in which paralegals are most in demand. The Paralegal Certificate Course© offers instruction on how to work as a full-time or part-time paralegal, or how to open your own freelance business. There are no prerequisites other than a high school diploma (or GED), but students must be prepared to complete a significant amount of homework each week. This program can help students increase their office’s efficiency, productivity, and billable hours as well as learn new marketable job skills.

This course is available in Live Lecture, Online, DVD, and Text-Only formats.

Successful graduates will be awarded a Certificate of Completion from Ashland University. To receive a Certificate, students must pass numerous quizzes and successfully complete several legal document writing assignments.

Topics of study include Legal Terminology, Documents, Ethics, and the Litigation Process, Evidentiary Predicate, Identifying Relevant Authority, Legal Research, Legal Research Practice and Document Preparation, and Legal Writing and Appellate Procedure.
Advanced Paralegal Certificate

These classes build upon the Paralegal Certificate Course. Students can interact through an online forum, and assignments and exams are completed online for critique and grading. Each of these topics is completed in one 7-week online session, and due to significant homework requirements, students can take a maximum of three topics per session.

The Advanced Paralegal Certificate Course enhances understanding of many of the substantive law areas that are discussed during the Paralegal Certificate Course. The additional training gained through participation in these Advanced classes can embellish legal knowledge and skills.


Students who successfully complete at least six Advanced topics will receive a Certificate of Completion.

College Credit Plus

Through Ashland’s College Credit Plus program, high school students with strong academic records can earn college credit and/or high school graduation credit by taking college courses at the University or at participating high schools.

Admission Requirements College Credit Plus

The student must have participated in a college preparatory curriculum and completed the following:

* Two or more years of high school English
* Two or more units of math (algebra or higher)
* Two or more units of science (one must be a laboratory science)
* Two or more units of social studies

The student must have a cumulative grade point average of at least 3.00 on a 4.00 scale at the time of application.

The student must have a composite score of 21 or higher on the ACT or 980 (CR/M) total score on the SAT. (Sub-scores will be used to obtain the best overall composite or total if the ACT or SAT has been taken more than once.)

Student must complete the free application for admission into College Credit Plus program available online at www.ashland.edu/apply. Student must complete and submit all approval forms required from their high school.

Registration is limited to a maximum of 16 credit hours per semester, and 30 credit hours per year.

All of the above criteria are considered for acceptance into College Credit Plus programs. Even with appropriate GPA and test scores, the student is not guaranteed admissions, and acceptance does not guarantee course availability. The cost for taking courses at the University campus is $33.00 per credit hour.
**Academic Honors Program**

www.ashland.edu/honors-program

**Professional Staff**

Christopher Swanson, Director, Professor of Mathematics

**Mission Statement**

The mission of the Honors Program is to offer academically talented undergraduate students cross-disciplinary experiences, participation in an intellectual community devoted to discussion and dialogue, and special projects and courses that challenge the mind. The cornerstone of the Honors Program is the belief that intellectual stimulation and camaraderie among Honors students gives them a more complete college experience.

To satisfy this mission, Honors freshmen enroll in the First Year Honors Seminar during the fall semester, in which they are introduced to the Honors Program and Ashland University while learning how to think critically and communicate clearly, thereby helping with their transition from high school to college. Honors students also have the opportunity to enroll in Honors sections of the core curriculum, capped at 15 students per section and taught by some of the best professors at Ashland University. The Honors Interdisciplinary Seminar will continue to develop the Honors students' critical thinking and communication skills, building upon their involvement with previous Honors courses and helping them prepare for the rigors of the Honors Capstone Project. The pinnacle of the Honors experience is the Honors Capstone Project during which a student works closely with a faculty mentor in his or her major for at least two semesters to develop an original composition which is orally defended during the final semester of the project.

**Requirements for Admission to the Honors Program**

Entering first year students generally have a high school GPA of 3.5 or above, and an ACT of 27 or above or SAT (critical reading and math) of 1200 or above. First year students must complete an application form and may request an interview with the Director of the Honors Program. Students who wish to participate in the Honors Program and do not meet the GPA or test score guidelines above are especially encouraged to request an interview. Students who are admitted to the Honors Program will receive notification typically within two weeks of completing their applications.

AU students and transfer students who wish to apply for admission to the Honors Program must have an overall university GPA of 3.5, complete an application form, provide a letter of recommendation from a faculty member, and meet with the Honors Director for an interview (optional for transfer students). AU students and transfer students accepted into the Honors Program after the 1st semester of their freshmen year are not required to complete the First Year Honors Seminar. Students who begin in the Honors Program with sophomore status will only be required to complete Honors designated core courses in three different areas.

**Continuation/Graduation Requirements**

In order to remain in the Honors Program, students must maintain an overall GPA at AU of at least 3.3 during their freshman year, 3.4 during their sophomore year, and 3.5 during their junior and senior years. If the GPA drops below this standard, the student will be placed on probationary status if he or she can meet the standard by the end of the subsequent semester; otherwise, the student will be dismissed from the Honors Program. A student on probationary status who does not raise his or her cumulative GPA to meet the standard by the end of the subsequent semester will be dismissed from the Honors Program. Students who are dismissed from the Honors Program may reapply to the Honors Program if they raise their overall GPA to a 3.5. Students must meet the 3.5 standard at the time of graduation.

To remain a member of the Honors Program, an Honors student must complete one Honors Core course by the end of his/her first year in the Honors Program, three Honors Core courses by the end of his/her second year in the Honors Program, be enrolled in Honors 310 during his/her junior year, and be working on the Honors Capstone Project during his/her senior year. Additionally, Honors students are required to attend 4 events each year—the Honors Retreat, the Fall Honors Lecture, the Spring Honors Lecture, and the Academic Honors Convocation. Failure to attend these events may result in dismissal from the Honors Program.

**Recognition and Achievement Award**

The academic transcript of each Honors graduate bears an acknowledgment of work completed in the Honors Program. The Howard O. Rowe Faculty Honors Scholarship is awarded annually to the graduating student whose Honors Capstone Project is considered to be the best among his or her peers.

For more information, call or visit the Academic Honors Program office in 103 Clayton Hall (x5260), or visit the website.
Honors Curricular Information

Honors Capstone Project

The Honors Capstone Project will officially begin in the Honors student's next to last semester, although it may start earlier if the student, faculty mentor, and Honors Director agree. The Honors Capstone Project will be completed in two semesters as two sections of Independent Study 498 in the student's major, and thus the student must complete an Independent Study Request form from the Registrar's Office prior to registration. For more information, see the Independent Study Program section of the catalog. A written prospectus is required of all Honors students by the conclusion of HON 310, and this prospectus (approved by the faculty mentor and the Honors Director) should serve as a guide to the Capstone Project. The Honors Capstone Project will typically be completed in the Honors student's final semester, will be reviewed and approved by the faculty mentor, Honors Director, and an additional faculty reviewer of an appropriate academic department, and will be publicly presented to the Ashland University community. The Honors Capstone Project Handbook distributed in HON 310 should be consulted for the appropriate deadlines.

Honors Elective

Honors students have four options for completing the Honors Elective: taking a 2nd HON 390, taking an Honors designated core course in a 5th area, completing two Honors Contract Courses, or completing an Honors Study Abroad experience. The latter two options are described in more detail below.

Honors Contract Course

To fulfill the Honors elective requirement, an Honors student may add-on one credit to two upper level courses within his or her major by completing additional work beyond the normal requirements and expectations of the courses. The additional work should focus on inquiry, discovery, and critical thinking, important skills the student will need as he or she works on the Honors Capstone Project.

An Honors student wishing to enroll in an Honors Contract course must fill out a contract, in consultation with the course instructor describing in detail the additional work or project that will be tied to the academic content of the course. This contract available on the Honors Program website must be signed by the student and the course instructor, and should be submitted to the Honors Program Director when the student registers for classes. The contract must be submitted by no later than the end of the 1st week of classes.

The Honors portion of an Honors Contract course will be evaluated satisfactory/unsatisfactory (S/U) by the course instructor. The course to which the Honors Contract is attached will be graded according to the course criteria. Acknowledgment of Honors Contract courses will be indicated on the student's transcript.

Honors Study Abroad Experience

An Honors student participating in a Study Abroad Experience with an academic component related to the Honors Program Mission Statement may submit a petition requesting a waiver of the Honors Elective. This petition available on the Honors Program website must be approved prior to the beginning of the Study Abroad Experience and will be reviewed by the Honors Advisory Committee. At the request of this committee, the Honors Program Director may require a student to complete additional work beyond the normal expectations of the Study Abroad Experience in order to waive the Honors Elective. In particular, Study Abroad Experiences connected directly to Ashland University courses will almost always require a student to complete additional work. The student must submit a Course Substitution and Waiver Form signed by his/her advisor and the Honors Program Director upon completion of the Study Abroad Experience to the Registrar's Office. No Honors Program academic credit will be awarded for this experience, although the student may receive academic credit from the university.

Honors Requirements

Honors designated core courses will be capped at 15 students, with Honors students given first priority during registration. A non-Honors student may take an Honors designated core course if it is not fully enrolled and the student receives permission from the Director of the Honors Program in consultation with the instructor. An Honors course taken with the S/U option will not count towards fulfilling Honors Program curricular requirements (except for HON 310). Note that an Honors Core course taken with an S/U option will count towards completing a category of the Core curriculum, but it will not count as one of the required Honors designated Core courses.

To remain a member of the Honors Program, an Honors student must complete one Honors Core course by the end of his or her first year in the Honors Program, three Honors Core courses by the end of his/her second year in the Honors Program, be enrolled in Honors 310 during his/her junior year, and be working on the Honors Capstone Project during his or her senior year.
<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 101 1st Year Honors Seminar</td>
<td>1</td>
<td>Honors Freshman</td>
</tr>
<tr>
<td>HON 310 Honors Capstone Prep. Seminar</td>
<td>1</td>
<td>Honors; At least Jr. Status</td>
</tr>
<tr>
<td>HON 390 Honors Interdisciplinary Seminar</td>
<td>3</td>
<td>Honors; Soph.</td>
</tr>
<tr>
<td>Honors Capstone Project</td>
<td>6</td>
<td>HON 310; Permission</td>
</tr>
<tr>
<td>Honors Core courses (choose 4 diff. areas)</td>
<td>12</td>
<td>Honors or Permission</td>
</tr>
<tr>
<td>(logic/math, religion, communications, natural sciences, humanities, aesthetics, historical reasoning, social sciences)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Honors Elective:**
At least one of the following

2nd HON 390 Honors Interdisciplinary Seminar Seminar | (3) | Honors; Soph. |
Honors Core course in a 5th area | (3) | Honors |
Two 1-hour Honors Contract courses in major | (2) | Honors; Soph. |
Honors study abroad experience | (0) | Honors; Permission 23-26 hrs. |

**Honors Courses and Descriptions**
See Course Descriptions section of catalog.
Art

Department of Art

The College of Arts and Sciences

Chair
Daniel McDonald, Associate Professor of Art

Faculty
Keith Dull, Professor of Art
Priscilla Roggenkamp, Associate Professor of Art
Wendy Schaller, Associate Professor of Art
Michael Bird, Professional Instructor of Art
Cynthia Petry, Director of Coburn Gallery

Degrees Offered
Bachelor of Arts
Bachelor of Fine Arts
Bachelor of Science
Bachelor of Science in Education
Associate of Arts

Student Learning Outcomes
The Art Department provides programs in fine art, art education, commercial art, and computer art and graphics programming (CAGP). The mission of the Department is to provide education in the visual arts and to prepare students to function in a productive capacity within the larger culture, including the qualifications necessary for pursuit of graduate studies. The Department provides a comprehensive and contemporary approach to the field and is committed to maintaining an environment that encourages seriousness of purpose in the creation, criticism, exhibition, and understanding of art. To fulfill the mission, the Department has established the following student learning outcomes:

* demonstrate high levels of technical skill;
* critically analyze works of art;
* fully illustrate their ideas visually;
* think critically and solve problems creatively; and
* analyze topics in the history of art.

Evidence of a student's ability to fulfill these learning outcomes is measured in their ability to successfully complete the following elements of the departmental assessment process (see Degree Requirements):

* exhibit high standards of achievement in the Senior Review Assessment; and
* fulfill the Senior Exhibition Requirement.

In addition, CAGP students through courses in computer science and the allied field of mathematics, will:

* employ discrete structures;
* examine computer architecture;
* practice programming;
* design and analyze algorithms; and
* implement critical thinking.

Facilities and Equipment
Six studios and one specially equipped lecture classroom accommodate the needs of our faculty and students. Studios are well-equipped with specialized tools for each of the disciplines offered.

* Printmaking equipment including a 36" intaglio press and a lithography press
* Ceramics lab with 16 wheels and both electric and gas-fired kilns
* Computer lab for digital arts with archival large format printer
* Sculpture studio equipped for metal fabrication, metal casting, wood working, etc.
* Slide/video library

The Coburn Gallery at Ashland University provides exhibitions of contemporary and historical significance for the campus community and the Ashland area. Eight exhibitions annually provide excellent opportunities for supplementing academic studies.

Off-Campus Program Opportunities

*The Art Institute of Pittsburgh (PA)*

In cooperation with the Art Institute of Pittsburgh, AU provides specially designed programs in commercial art leading to careers in the fields of game art and design; graphic design; industrial design technology; interactive media design; interior design; media arts and animation; photography; video production; and visual effects and motion graphics. Students will attend the Art Institute of Pittsburgh for three quarters during their junior year concentrating on a career-oriented program and return to Ashland to complete the baccalaureate degree in their senior year.

Ashland University has a clear arrangement with the Art Institute of Pittsburgh but it should be noted that the opportunity to fulfill the off-campus portion of the commercial art degree is open to attendance at any of the associated Art Institutes, though special arrangements may be needed.
Description of Majors

Fine Arts – Our majors in the fine arts offer concentrations in painting, sculpture, printmaking, ceramics, and digital art. These majors prepare students for careers as professional artists or for postgraduate studies. Students begin with introductory drawing, design, and art history classes in the foundations sequence. Upper level work in the students' concentration area, as well as electives from the other areas, gives graduates well-rounded art training that allows them to develop creative ideas in a variety of media. A series of reviews after the foundations sequence and during the junior year prepares students for the senior exhibition which takes place in the department's Coburn Gallery. A year-round program of exhibitions in the gallery by serious fine artists allows students the opportunity to deepen and expand ideas through constant exposure to new concepts and techniques. A student exhibition with cash awards, juried by an outside juror, gives students the opportunity to exhibit their work in a professional setting. Students interested in the B.F.A. degree must receive approval from the individual area professor, confirmed by the department faculty.

Commercial Art – The program in commercial art is accomplished in one of two ways: through our affiliation with the Art Institute of Pittsburgh or by completing courses entirely at AU. Those choosing to attend the Art Institute of Pittsburgh spend their first two years at Ashland taking the foundations sequence and the university core requirements. The junior year is usually spent at the Art Institute taking upper-level classes in one of the following areas of concentration: game art & design, graphic design, industrial design technology, interactive media design, interior design, media arts and animation, video production, photography or visual effects, and motion graphics. Students then return to Ashland for their senior year, receiving upon graduation a baccalaureate degree and a certification in their field. For those concentrating in Graphic Design or Digital Video Production, completion is possible without needing to attend the Art Institute of Pittsburgh.

Graduates may work in the many-faceted commercial art field, depending on their concentration and special abilities. The benefits of this program are the solid fine art training in a serious liberal arts environment that students receive at Ashland, combined with the intensive instruction in the applied arts fields they receive at the Art Institute. Since the Institute is located in a major metropolitan area, students experience both a quiet, rural campus and a big city.

Computer Art & Graphics Programming – This program is a combined major with the Mathematics/Computer Science Department and is designed to educate technologically literate artists. These graduates will enter the workforce with both creative and technical skills in Programming and Digital Fine Arts. In the first two years, students take the Art Foundations Sequence and the prerequisite Math and Computer Science programming courses. Upper level students will take advanced classes in digital art and Computer Science classes related to computer graphics. In their upper level courses students will use industry-standard software to develop personal bodies of work in preparation for their senior exhibition requirement. A two-track curriculum allows students to complete their degree by focusing on either digital art or web design, depending on the final courses they choose to take.

Art Education – This program combines training in studio art with teacher education instruction, leading to teacher certification. The advantage of this program lies in the amount of studio training received in conjunction with the education classes. Graduates are not only trained to teach, but also to be well-rounded, practicing artists.

Degree Requirements

General Requirements – The Department of Art reserves the right to retain work done under classroom instruction.

In recognition of the time commitment necessary for an adequate fulfillment of the requirements of the classroom/studio, students are required to attend all classes as scheduled and remain in the class for the prescribed time. Academic penalties may be invoked in cases of excessive absences.

Assessment – The assessment process is designed to monitor student development in the various areas of skill and knowledge the department teaches. This process is conducted on a yearly basis and takes place outside the context of individual classes. It is intended to benefit the students by giving them a set of guidelines by which they may improve artistic skills and understanding. The process is also intended to help departmental faculty update and improve the content of courses, and the program as a whole, as needs are identified. The process includes Foundations Review, Concentration Review, Senior Review, and the Senior Exhibition.

Foundations Review follows the completion of at least four of the five studio foundations courses (2-D Design, 3-D Design, Color Theory, Drawing I, and Drawing II). Students present a portfolio of foundations work to a committee composed of Art Department faculty. The committee gives written and oral assessments of strengths and weaknesses, and makes appropriate recommendations. Students will demonstrate proficiency in two-dimensional composition, three-dimensional design, the usage of color, the usage of spatial devices, observational and drawing skills, understanding of anatomy, and the quality of craft and sensitivity to artist's materials.
Concentration Review should take place near the end of the second semester of a student's concentration. Candidates present a portfolio of upper level studio work that is critiqued in open session by the Art Department faculty, art majors, and visiting artists. The faculty will provide written assessments of the work, indicating areas of strength and weakness and advising the student how best to fulfill the senior exhibition requirement. Students will be advised as to whether or not their portfolio meets department expectations relative to the process of producing a body of work sufficient for a final exhibition. The areas evaluated are the seriousness of the artistic direction, the consistency of the artistic direction, the volume of work created, and the potential for artistic growth.

Senior Review takes place the semester preceding the senior exhibition. Candidates are expected to present a further refined portfolio of work leading to the senior exhibition to be critiqued in open session similar to the Concentration Review. The faculty will provide written assessment of progress towards the student’s readiness with respect to the senior exhibition. If a portfolio does not exhibit the necessary progress the student may be required to repeat the review process or postpone the senior exhibition until sufficient progress is made.

Senior Exhibition is a graded component of Senior Seminar and is the final graduation requirement. When applying for graduation, students must submit a body of work to the Art Department faculty for approval. Candidates must provide a minimum of three pre-approved works for the exhibition and display them in a professional manner that conforms to the standards of the Coburn Gallery and the Art Department. Areas evaluated are the cohesiveness and excellence of the body of work, the professionalism of the presentation of the body of work, and the degree of understanding and application of techniques of documentation of artwork.

### Bachelor of Arts with a major in Fine Art (minor required)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Studio Concentration: painting, ceramics, printmaking, sculpture or digital art</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Studio elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Art History elective</td>
<td>3</td>
<td></td>
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<tr>
<td>Studio or Art History Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practice</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 208, 210 or 215 or Art Major</td>
</tr>
</tbody>
</table>

### Plus Institutional Baccalaureate Degree Requirements.

### Bachelor of Arts with a major in Commercial Art (minor required)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
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<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 208, 210 or 215 or Art major</td>
</tr>
<tr>
<td>ART 293/393/493 Elective Internship</td>
<td>(0-3 hrs.)</td>
<td></td>
</tr>
<tr>
<td>Junior Year at the Art Institute of Pittsburgh</td>
<td>30</td>
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</table>

### Plus Institutional Baccalaureate Degree Requirements.

### Bachelor of Arts with a major in Commercial Art: Graphic Design Concentration (minor required) (completed entirely at AU)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
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</table>

**Concentration Area:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ART 206 Digital Art I</td>
<td>3</td>
<td>ART 134</td>
</tr>
<tr>
<td>ART 333 Print Design</td>
<td>3</td>
<td>ART 133, 134</td>
</tr>
<tr>
<td>ART 335 Typography</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 337 Design for the Web</td>
<td>3</td>
<td>ART 133, 134</td>
</tr>
<tr>
<td>ART 346 Illustration</td>
<td>3</td>
<td>ART 134, 141, 242</td>
</tr>
<tr>
<td>ART 357 History of Design</td>
<td>3</td>
<td>ART 133, 134, 135</td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practices</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 403 Mass Media Effects</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>MKT 233 Principles of Marketing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MKT 314 Advertising Principles</td>
<td>3</td>
<td>MKT 233</td>
</tr>
</tbody>
</table>
Bachelor of Arts with a major in Commercial Art: Digital Video Production Concentration (minor required) (completed entirely at AU)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
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<td>Concentration Area:</td>
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<td></td>
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<td>ART 206 Digital Art I</td>
<td>3</td>
<td>ART 134</td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practices</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 133 Video &amp; Audio Aesthetics</td>
<td>3</td>
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<tr>
<td>JDM 232 Video Aesthetics 2</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 234 Studio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 311 Script Writing &amp; Directing</td>
<td>3</td>
<td>JDM 234</td>
</tr>
<tr>
<td>JDM 333 Digital Media Technologies</td>
<td>3</td>
<td>JDM 232</td>
</tr>
<tr>
<td>JDM 337 Advanced Audio Production</td>
<td>3</td>
<td>JDM 237</td>
</tr>
<tr>
<td>JDM 403 Mass Media Effects</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 412 Adv. Post Prod. &amp; Editing</td>
<td>3</td>
<td>JDM 333</td>
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<tr>
<td>PHIL 318 Topics in Philosophy</td>
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<td>PHIL 204, 205, 208, 210 or 215 or Art major</td>
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</table>

ART 293/393/493 Elective Internship  (0-3 hrs.)  36 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science with a comprehensive major in Commercial Art: Graphic Design Concentration (completed entirely at AU)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
<td>JDM 133 Video &amp; Audio Aesthetics</td>
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</tr>
<tr>
<td>JDM 232 Video Aesthetics 2</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 234 Studio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 311 Script Writing &amp; Directing</td>
<td>3</td>
<td>JDM 234</td>
</tr>
<tr>
<td>JDM 333 Digital Media Technologies</td>
<td>3</td>
<td>JDM 232</td>
</tr>
<tr>
<td>JDM 337 Advanced Audio Production</td>
<td>3</td>
<td>JDM 237</td>
</tr>
<tr>
<td>JDM 403 Mass Media Effects</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 412 Adv. Post Prod. &amp; Editing</td>
<td>3</td>
<td>JDM 333</td>
</tr>
<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 208, 210 or 215 or Art major</td>
</tr>
</tbody>
</table>

ART 293/393/493 Elective Internship  (0-3 hrs.)  33 hrs.

ART Studio Electives: (Choose 2)  6
Art History Elective  3

Junior Year at the Art Institute of Pittsburgh  (see previous page for concentration areas)

60-67 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science with a comprehensive major in Commercial Art: Digital Video Production Concentration (completed entirely at AU)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Concentration Area:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 206 Digital Art I</td>
<td>3</td>
<td>ART 134</td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practices</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 133 Video &amp; Audio Aesthetics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 232 Video Aesthetics 2</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 234 Studio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 311 Script Writing &amp; Directing</td>
<td>3</td>
<td>JDM 234</td>
</tr>
<tr>
<td>JDM 333 Digital Media Technologies</td>
<td>3</td>
<td>JDM 232</td>
</tr>
<tr>
<td>JDM 337 Advanced Audio Production</td>
<td>3</td>
<td>JDM 237</td>
</tr>
<tr>
<td>JDM 403 Mass Media Effects</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>JDM 412 Adv. Post Prod. &amp; Editing</td>
<td>3</td>
<td>JDM 333</td>
</tr>
<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 208, 210 or 215 or Art major</td>
</tr>
</tbody>
</table>

ART 293/393/493 Elective Internship  (0-3 hrs.)  64-67 hrs.

Plus Institutional Baccalaureate Degree Requirements.
Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Fine Arts with a comprehensive major in Fine Arts

For the studio major and the studio minor, the student will choose 2 mediums from these: ceramics, digital art, painting, printmaking, or sculpture.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Studio major:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio major I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Studio major II</td>
<td>3</td>
<td>Studio Major I</td>
</tr>
<tr>
<td>Studio major III</td>
<td>3</td>
<td>Studio Major II</td>
</tr>
<tr>
<td>Studio major IV</td>
<td>3</td>
<td>Studio Major III</td>
</tr>
<tr>
<td>Studio major V</td>
<td>3</td>
<td>Studio Major V</td>
</tr>
<tr>
<td>ART 490 Major Thesis Prep.</td>
<td>1</td>
<td>BFA major w/12 hrs. studio conc.</td>
</tr>
<tr>
<td>ART 491 Major Thesis</td>
<td>1</td>
<td>ART 490</td>
</tr>
<tr>
<td>ART 492 Studio Capstone</td>
<td>3</td>
<td>BFA major w/15 hrs. studio conc.</td>
</tr>
<tr>
<td>Studio Minor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio minor I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Studio minor II</td>
<td>3</td>
<td>Studio minor I</td>
</tr>
<tr>
<td>Studio minor III</td>
<td>3</td>
<td>Studio minor II</td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practices</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Art Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 210 or 215 or Art major</td>
</tr>
</tbody>
</table>

72 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science with a comprehensive major in Computer Art and Graphics Programming

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>ART 206 Digital Art I</td>
<td>3</td>
<td>ART 134</td>
</tr>
<tr>
<td>ART 307 Digital Art II</td>
<td>3</td>
<td>ART 206</td>
</tr>
<tr>
<td>ART 408 Digital Art III</td>
<td>3</td>
<td>ART 307</td>
</tr>
<tr>
<td>ART 495 Cont. Issues &amp; Practices</td>
<td>3</td>
<td>Jr. status</td>
</tr>
<tr>
<td>CS 121 Computer Prog. I</td>
<td>4</td>
<td>2 Yrs H.S. Alg., 1 Yr H.S. Geom.</td>
</tr>
<tr>
<td>CS 122 Computer Prog. II</td>
<td>4</td>
<td>CS 121</td>
</tr>
<tr>
<td>CS 230 Data Structures</td>
<td>3</td>
<td>CS 122, MATH 223</td>
</tr>
<tr>
<td>CS 303 Computer Algorithms</td>
<td>3</td>
<td>CS 230, MATH 224</td>
</tr>
<tr>
<td>CS 427 Computer Graphics</td>
<td>3</td>
<td>CS 303, MATH 307</td>
</tr>
<tr>
<td>MATH 223 -224 Discrete Math I-II</td>
<td>3/3</td>
<td>2 Yrs. H.S. Alg.; 1 Yr H.S. Geom; MATH 223 for 224</td>
</tr>
</tbody>
</table>

MATH 307 Linear Algebra 3 MATH 202, 206, or 224
PHIL 318 Topics in Philosophy 3 PHIL 204,205,208,210 or 215 or Art major

Electives (choose 2 courses): 6
ART 409 Digital Art IV (3) ART 408
ART 410 Digital Art V (3) ART 409
CS 175 Web Design (3) None
CS 275 Web Programming (3) CS 122
CS 499 Software Development (3) CS 304

69 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Art, Multi-Age (PreK-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

Note: Students are required to take at least one course from each of the department’s concentration areas as part of their 15 hours of studio electives.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Foundations Sequence</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Studio Conc: painting, ceramics, printmaking, sculpture or comp. art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Art History elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Studio or Art History elective</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 221 Art Ed.: Theories &amp; Pract.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PHIL 318 Topics in Philosophy</td>
<td>3</td>
<td>PHIL 204, 205, 210 or 215 or Art major</td>
</tr>
</tbody>
</table>

Related Concentration:
ART 432A Secondary Methods—Art 3 Art 134, 141
EDCI 230PK Grades PreK-12 Field Exp. I 1 EDCI 230, PSYC 21
EDCI 330PK Grades PreK-12 Field Exp. II 3 EDFN 130; FREN 252 or SPAN 272 for foreign language majors; MUSIC 204 or concur. For music majors
EDCI 392 Content Area Reading 3 None
PSYC 218 Psych. of Adolescence 3 None

Remaining Education Requirements: 74 hrs.
EDCI 232 Intro. to Prin. Of Instr. Tech. 3 None
EDCI 469 Student Internship PreK-12 10 All Student Internship Req.
EDFN 130 Introduction to Teaching 2 None
EDFN 202 Teaching and Learn. Process 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 Sr. Status
EDIS 250 Intro. Educational Intervention 3 None

98 hrs.

**Minor in Art History**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 256 Western Art I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 257 Western Art II</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 352 Art of the Renaissance</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 353 Baroque &amp; Rococo Art</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 354 19th Century Art I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 356 20th Century Art I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td><strong>18 hrs.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Minor in Studio Art**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 141 Drawing I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 133 Color Theory</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 242 Drawing II</td>
<td>(3)</td>
<td>ART 141</td>
</tr>
<tr>
<td>ART 134 2-D Design</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 135 3-D Design</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 256 Western Art I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 257 Western Art II</td>
<td>3</td>
<td>None</td>
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<tr>
<td>Art electives</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td><strong>24 hrs.</strong></td>
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</table>

**Associate of Arts with a concentration in Art**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 133 Color Theory</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 134 2-D Design</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 135 3-D Design</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 141 Drawing I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 211 Ceramics I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 261 Painting I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 271 Printmaking I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ART 281 Sculpture I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Art History electives</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td><strong>30 hrs.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Plus Institutional Baccalaureate Degree Requirements.**

One art history elective is offered each semester on rotation as follows:

ART 352 Art of the Renaissance
ART 353 Baroque and Rococo Art
ART 354 19th Century Art
ART 356 20th Century Art

**Art Courses and Descriptions**

See Course Descriptions section of catalog.

**Art History Course Rotation**

ART 256 Western Art I is offered every fall semester
ART 257 Western Art II is offered every spring semester
Biology
Department of Biology/Toxicology
The College of Arts and Sciences

Chair
Mason Posner, Professor of Biology

Faculty
Soren Brauner, Professor of Biology
Douglas A. Dawson, Professor of Biology/Toxicology
Paul Hyman, Associate Professor of Biology
Patricia A. Saunders, Associate Professor of Biology
Andrew J. Trimble, Associate Professor of Biology/Toxicology
Dolly L. Crawford, Assistant Professor of Biology
Narveen Jandu, Assistant Professor of Biology
Merrill Tawse, Professional Instructor of Biology
Lisa Regula Meyer, Visiting Assistant Professor of Biology
Kristin Simokat, Professional Instructor of Biology

Degrees Offered
Bachelor of Science
Bachelor of Science in Education

Pre-Professional Programs
Biology courses make up a substantial component of the required curriculum for a number of pre-professional programs. For minimum requirements, see the Academic Affairs section on pre-professional programs. The Biology Department, along with other departments, has prepared recommended course sequences which give students the greatest probability of acceptance into professional schools. In most of these programs a biology major is a strong preparation. Those programs with a strong biology component include pre-medicine, pre-dentistry, pre-veterinary medicine, pre-medical technology, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-occupational therapy and pre-optometry.

Mission and Goals
The mission and goals of the Department of Biology/Toxicology are:
* To educate B.S. and B.S.Ed. Students in biology and toxicology, and to successfully prepare them for jobs or graduate/professional schools;
* To educate future teachers, providing them with the knowledge and skills necessary to teach children biology;
* To educate students from other disciplines, encouraging them to become citizens who are knowledgeable about biological issues;
* To advance biological knowledge through research and scholarship; and
* To enhance the knowledge and understanding of biology in the community at large.

Student Learning Outcomes
Students graduating with a major in biology or toxicology will be able to:
* Understand and use the scientific method (including experimental design, sampling strategy, and data analysis) as a means of investigating biological problems;
* Demonstrate a breadth of knowledge commensurate with their coursework, including an understanding of cellular structure and function, homeostasis, growth and reproduction, molecular and population genetics and evolution, taxonomic organization, and principles of ecology;
* Demonstrate practical knowledge in the use and application of equipment employed in the study of biology, including sampling techniques, separation techniques (e.g., gel electrophoresis and chromatography), microscopy, and appropriate techniques for quantitative analysis (e.g., spectroscopy and ion-specific electrodes);
* Read, analyze and summarize biological literature, and communicate research finding through oral presentation and written papers.

Facilities and Equipment
Biology facilities in the recently renovated Kettering Science Center includes four teaching and four faculty/student research laboratories; a microscopy room and tissue culture facility; an animal facility with multiple rooms housing fishes, amphibians, rodents, bats, and invertebrates; an anatomy lab housing four human cadavers and an extensive anatomy model collection; a collections room for preserved specimens; and a 2500 square foot greenhouse with an adjoining laboratory that houses a permanent plant collection and provides space for student and faculty research. The department is well-equipped to provide students with a broad hands-on experience in biological techniques. Equipment available for student use includes:
* Large number of compound and dissecting microscopes as well as an Olympus inverted microscope with phase, Nomarsky, and fluorescence optics and Nikon research grade microscope with phase optics. These microscopes are equipped with digital cameras and image analysis software.
* Wide range of tools for molecular and cellular biology, including two refrigerated centrifuges, ultracentrifuge, shaking incubator, five thermal cyclers for PCR (including real-time PCR), digital imaging station for DNA gels and western blots, and a full complement of DNA and protein electrophoresis equipment including 2D gel electrophoresis.
* Tissue culture facility with biological containment hood, CO2 incubator and inverted microscope.
* Separate microbiology teaching and research laboratories, both with biological containment hoods capable of Biosafety Level 2 experiments.
* A Leica cryostat and microtomes for histological studies.
* Two UV/Vis spectrophotometers for diverse biological applications.
* Microtox system for studies in aquatic toxicology.
* Tools for environmental studies, including a Seabird profiling instrument for lakes and oceans, a YSI handheld instrument for streams and shallow wetlands, a photosynthesis measuring system for studies of plant physiology, and GPS instruments and GIS software for mapping and collection of spatial data.
* Field sampling equipment, including gear appropriate to both aquatic and terrestrial studies.
* Numerous growth chambers, environmental chambers, and incubators.
* Multiple aquariums, including a 75-gallon saltwater tank for study of marine organisms.
* Physiology analysis equipment including the Vernier system with a wide range of sensors (EKG, spirometry, etc.) and the Iworx system.
* Access to a large number of laptops and desktop workstations for use in the classroom and laboratory.

Field Studies
In addition to five Environmental Preserves managed by the Environmental Science Program, Ashland University's location enhances field study opportunities. Various field courses utilize the close proximity of diverse bodies of water (including Lake Erie), swamps, bogs, prairie habitats, rich deciduous forests (including Mohican State Forest), and the boundary between glaciated and unglaciated Appalachian Plateau. Summer field studies give students the opportunity to study other unique habitats around the country.

Student Honor Society
Beta Beta Beta, Xi Mu chapter, honors biology majors and minors. Regular members maintain a 3.0 GPA and have completed at least three biology courses. Associate membership is available to all other students with an interest in biology.

Description of Majors

Biology Major – Majors in the Biology program explore the characteristics of life, living organisms, and the environments that support life. This exploration comes at many levels—from the molecular and cellular to the interactions between organisms and their environment. Along with classroom work, students gain extensive laboratory and field exposure and are encouraged to conduct undergraduate research. Biology majors have many career options, including medicine and other health-related fields, pharmaceuticals, biochemistry, engineering, forensics, education, environment, or agriculture. They may work with animals, manage wildlife, work with plants, manage forests, work in the field or parks, or work in laboratories. Biology majors may choose to add a concentration in forensic biology.

Forensic Biology Concentration – The Forensic Biology program was developed to meet the needs of students interested in pursuing a career in forensic biology, the application of biological principles to law enforcement. The major provides a strong basic background in both biology and chemistry, along with specialized upper level courses specifically applicable to forensics. Course work in criminal justice and other areas provide additional perspectives. After graduation, forensic biology majors will be well prepared for either on-the-job training in a forensics laboratory or for graduate study in the area of forensics.

Toxicology Major – Toxicology is a field that combines elements of biology and chemistry to study the actions of poisons (toxicants) on living systems. Toxicologists apply their knowledge and skills to interesting and relevant biomedical and environmental problems in areas such as cancer research, drug development, environmental health, forensics, and ecological toxicology. While at AU, toxicology majors take courses in basic and applied toxicology and have the opportunity to participate in undergraduate research and/or internships. After graduation, toxicology majors may choose to go on to graduate or professional school, or may choose to enter the workforce directly.

Degree Requirements
Assessment – All majors will begin the assessment process during the freshman year with a standardized assessment test in BIO 201/202 and continue the process in the senior year in BIO 495.

Bachelor of Science with a comprehensive major in Biology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biology Core:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Organisms, Adapt. &amp; Divers.</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 301 Professional Preparation</td>
<td>1</td>
<td>Major, Jr. Status</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 201</td>
</tr>
<tr>
<td>BIO 495 Biology Senior Seminar</td>
<td>1</td>
<td>Major, Sr. Status</td>
</tr>
</tbody>
</table>

65
CHEM 103 General Chemistry I 4 H.S. Chem; 3 Yrs H.S. Math
CHEM 104 General Chemistry II 4 CHEM 103
CHEM 307 Organic Chemistry 3 CHEM 104
CHEM 307L Organic Chem Lab 1 CHEM 104
2 Semesters of mathematics* (Calc. and or Stats. Recomm.) 6-10

Remaining Biology Courses:
Choose at least one course from three of the following four areas:
Cellular and Molecular courses: 4
BIO 340 Microbiology (4) BIO 201, CHEM 104
BIO 424 Cell Biology (4) BIO 303 and 12 hrs. BIO
BIO 429 Biochemistry (4) CHEM 307
Biodiversity courses: 4
BIO 205 Zoology (4) BIO 202
BIO 207 Botany (4) BIO 202
BIO 219 Entomology (4) BIO 202
BIO 328 Vertebrate Biology (4) BIO 202
Physiology courses: 3-4
BIO 325 Anatomy and Physiology I (4) BIO 201
BIO 327 Plant Physiology (4) BIO 202
BIO 330 Principles of Toxicology (3) BIO 201, 202; CHEM 104
BIO 425 Advanced Human Physiology (4) 16 hrs. BIO
Ecology courses: 4
BIO 310 Ecology (4) BIO 202
BIO 411 Limnology (4) BIO 202
BIO 412 Marine Biology (4) BIO 202
Choose at least one from the following seminar courses:
BIO 276 Environmental Science Seminar (1)
BIO 304 Journal Club (1) Major, Jr. or Sr. status

Biology Core:
BIO 201 Mol and Cell Basis of Life 4
BIO 202 Org, Adapt and Diversity 4
BIO 301 Professional Prep 1 Jr. status
BIO 303 Genetics 4 BIO 126 or 201
BIO 495 Biology Senior Seminar 1 Sr. status
CHEM 103 General Chemistry I 4 H.S. Chem.; 3 yrs. H.S. Math
CHEM 104 General Chemistry II 4 CHEM 103
CHEM 307 Organic Chemistry I 3 CHEM 104
CHEM 307L Organic Chem Lab 1 CHEM 104
26 hrs.

FORENSIC BIOLOGY TRACK
BIO 234 Forensic Science 3 4 hrs. BIO., 4 hrs. CHEM.
BIO 428 Molecular Biology 4 BIO 303
BIO 429 Biochemistry 4 CHEM 307
CHEM 308 Organic Chemistry II 3 CHEM 307
CHEM 308L Organic Chem. II Lab 1 CHEM 307
CHEM 320 Quantitative Analysis 4 CHEM 104
CJ 130 Intro to Criminal Justice 3 None
Choose at least one course from each of the following groups:
Biodiversity courses: 4
BIO 207 Botany (4) BIO 202
BIO 219 Entomology (4) BIO 202
Physiology courses: 3-4
BIO 325 Anatomy and Physiology I (4) BIO 201
BIO 330 Principles of Toxicology (3) BIO 201, 202; CHEM 104
Additional electives: 4
BIO 340 Microbiology (4) BIO 201, CHEM 104
BIO 424 Cell Biology (4) 12 hrs. BIO, BIO 303
BIO 454 Immunology (4) BIO 340 or 424 or 428
CHEM 420 Instrumental Analysis (4) CHEM 320
Seminar courses: 1
BIO 276 Environmental Science Seminar (1)
BIO 304 Journal Club (1) Jr. or Sr. Status
Criminal justice electives: 3
CJ 200 Criminal Investigation I (3) CJ 130
CJ 235 Course and Justice (3) CJ 130
CJ 242 Criminology (3) CJ 130 or SOC 111
CJ 362 Criminal Law (3) CJ 130
CJ 450 Ethics in Criminal Justice (3) CJ 130, 362, or Sr. status

Specific math courses for biology core: 6-8
MATH 201 Calculus with Applications (3) 2 yrs. H.S. alg.; 1 yr. H.S. geom.

OR
MATH 205 The Calculus I (5) MATH 111 or Equiv.
MATH 208 Elementary Statistics (3) MATH 100 or ACT 11 or SAT 480

Notes: Students obtaining a double major in biology and chemistry may count Bio/Chem 429 Biochemistry toward both majors.

Students planning to attend a graduate or professional school should take a full year of physics and organic chemistry, although not required for all the tracks in Biology.

**At least 12 hours altogether of area electives, seminar requirement and general biology electives should be at the 300 or 400 level. Elective hours may include up to 3 hours of 493, and no more than 6 hours of Bio 493, 497, or 498 combined.

Notes: Students obtaining a double major in biology and chemistry may count Bio/Chem 429 Biochemistry toward both majors.

Students planning to attend a graduate or professional school should take a full year of physics and organic chemistry, although not required for all the tracks in Biology.

Bachelor of Science with a Comprehensive Major in Biology – Forensic Biology Concentration
Course Number and Title Hrs. Prerequisites

Biology Core:
BIO 201 Mol and Cell Basis of Life 4 None
BIO 202 Org, Adapt and Diversity 4 None
BIO 301 Professional Prep 1 Jr. status
BIO 303 Genetics 4 BIO 126 or 201
BIO 495 Biology Senior Seminar 1 Sr. status
CHEM 103 General Chemistry I 4 H.S. Chem.; 3 yrs. H.S. Math
CHEM 104 General Chemistry II 4 CHEM 103
CHEM 307 Organic Chemistry I 3 CHEM 104
CHEM 307L Organic Chem Lab 1 CHEM 104
26 hrs.

FORENSIC BIOLOGY TRACK
BIO 234 Forensic Science 3 4 hrs. BIO., 4 hrs. CHEM.
BIO 428 Molecular Biology 4 BIO 303
BIO 429 Biochemistry 4 CHEM 307
CHEM 308 Organic Chemistry II 3 CHEM 307
CHEM 308L Organic Chem. II Lab 1 CHEM 307
CHEM 320 Quantitative Analysis 4 CHEM 104
CJ 130 Intro to Criminal Justice 3 None

Choose at least one course from each of the following groups:
Biodiversity courses: 4
BIO 207 Botany (4) BIO 202
BIO 219 Entomology (4) BIO 202
Physiology courses: 3-4
BIO 325 Anatomy and Physiology I (4) BIO 201
BIO 330 Principles of Toxicology (3) BIO 201, 202; CHEM 104
Additional electives: 4
BIO 340 Microbiology (4) BIO 201, CHEM 104
BIO 424 Cell Biology (4) 12 hrs. BIO, BIO 303
BIO 454 Immunology (4) BIO 340 or 424 or 428
CHEM 420 Instrumental Analysis (4) CHEM 320
Seminar courses: 1
BIO 276 Environmental Science Seminar (1)
BIO 304 Journal Club (1) Jr. or Sr. Status
Criminal justice electives: 3
CJ 200 Criminal Investigation I (3) CJ 130
CJ 235 Course and Justice (3) CJ 130
CJ 242 Criminology (3) CJ 130 or SOC 111
CJ 362 Criminal Law (3) CJ 130
CJ 450 Ethics in Criminal Justice (3) CJ 130, 362, or Sr. status

Specific math courses for biology core: 6-8
MATH 201 Calculus with Applications (3) 2 yrs. H.S. alg.; 1 yr. H.S. geom.

OR
MATH 205 The Calculus I (5) MATH 111 or Equiv.
MATH 208 Elementary Statistics (3) MATH 100 or ACT 11 or SAT 480

69-72
**Plus Institutional Baccalaureate Degree Requirements.**

Students obtaining a double major in biology and chemistry may count Bio/Chem 429 Biochemistry toward both majors. Note: Students planning to attend a graduate or professional school should take a full year of physics and organic chemistry, although not required for all the tracks in Biology.

**Bachelor of Science with a Comprehensive Major in Toxicology**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Mol and Cell Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Org, Adapt and Diversity</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 301 Professional Prep</td>
<td>1</td>
<td>Major, Jr. status</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 201</td>
</tr>
<tr>
<td>BIO 330 Principles of Toxicology</td>
<td>3</td>
<td>BIO 201, 202, CHEM 104</td>
</tr>
<tr>
<td>BIO 331 Methods in Toxicology</td>
<td>4</td>
<td>BIO 330</td>
</tr>
<tr>
<td>BIO 332 Toxic Agents</td>
<td>3</td>
<td>BIO 330</td>
</tr>
<tr>
<td>BIO 429 Biochemistry (with lab)</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>BIO 432 Pharmacology and Tox I</td>
<td>3</td>
<td>16 hours BIO, CHEM 307</td>
</tr>
<tr>
<td>BIO 433 Pharmacology and Tox II</td>
<td>3</td>
<td>16 hours BIO, CHEM 307</td>
</tr>
<tr>
<td>BIO 495 Biology Senior Seminar</td>
<td>1</td>
<td>Sr. status; Bio., Tox., Evs/Bio., Life Sci. lic majors</td>
</tr>
</tbody>
</table>

Bio Electives (courses numbered 200 or above) 11

Choose one from the following: 1

- BIO 276 Environmental Science Seminar
  - BIO 304 Journal Club (1)
    - Jr. or Sr. status, Bio/Tox. Major
  - CHEM 103 General Chemistry I 4  
    - H.S. Chem.; 3 yrs. H.S. Math
  - CHEM 104 General Chemistry II 4  
    - CHEM 103
  - CHEM 307 Organic Chemistry I 3  
    - CHEM 104
  - CHEM 307L Org Chemistry Lab 1  
    - CHEM 104
  - CHEM 320 Quantitative Analysis 4  
    - CHEM 104
  - CHEM 420 Instrumental analysis 4  
    - CHEM 320
  - MATH 201 Calculus with Applications (3)  
    - 2 yrs. H.S. alg., 1 yr. H.S. geom.

OR

- MATH 205 The Calculus I (5)  
  - MATH 111 or equiv.
- MATH 208 Elementary Statistics 3  
  - MATH 100 or ACT 18 or SAT 480

72-74 hrs.

**Plus Institutional Baccalaureate Degree Requirements.**

Note: Students planning to attend a graduate or professional school should take a full year of physics and organic chemistry, although not required for all the tracks in Biology.

**Bachelor of Science in Education with comprehensive major in Integrated Science (Grades 7-12)**

See listing in Chemistry

**Bachelor of Science in Education with a comprehensive major in Biology (Life Science Licensure) Grades 7-12**

Assessment - Teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Mol and Cell Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Org, Adapt and Diversity</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 205 General Zoology</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 207 General Botany</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 301 Professional Preparation</td>
<td>1</td>
<td>Bio major, Jr. status</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 325 Anatomy and Physiology I</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 326 Anatomy and Physiology II</td>
<td>4</td>
<td>BIO 325</td>
</tr>
<tr>
<td>BIO 495 Senior Seminar</td>
<td>1</td>
<td>Sr. status</td>
</tr>
</tbody>
</table>

Choose one course from: 3-4

- BIO 305 Evolution (3)  
  - BIO 303
- BIO 310 Ecology (4)  
  - BIO 202
- BIO 411 Limnology (4)  
  - BIO 202

Choose one course from: 4

- BIO 340 Microbiology (4)  
  - BIO 201 and CHEM 104
- BIO 424 Cell Biology (4)  
  - BIO 303
- BIO 428 Molecular Biology (4)  
  - BIO 303
- CHEM 103 General Chemistry I 4  
  - H.S. Chem., 3 yrs. H.S. Math
- CHEM 104 General Chemistry II 4  
  - CHEM 103
- MATH 208 Elementary Statistics 3  
  - Math 100 or ACT 18 or SAT 480
- PHYS 201 General Physics 4  

Choose one course from: 3-4

- BIO 493 Internship (3)  
  - 12 hrs. Res. Cred, Jr or Sr. stat, perm
- BIO 497 Directed Lab/ Field Research (3)  
  - GEOL 101 Physical Geology (4)  
  - MATH Elective (3)  
  - 55-57 hrs.

Related Concentration:

- EDCI 287 Curr./Instr./Asses. 7-12 3  
  - EDFN 202
- EDCI 318 Tch. 21st Cent. Adol. Science 3  
  - None
- Choose one from: 3
  - PSYC 209 Dev. Psych (3)  
    - PSYC 101
  - PSYC 218 Psyc. of Adolescence (3)  
    - None

Remaining Education requirements:

- EDCI 230SEC AYA (7-12) Field Exp. I 1  
  - Concurrent with EDCI 287
- EDCI 232 Intro. to Prin. of Instr. Tech. 3  
  - None
- EDCI 330SEC AYA (7-12) Field Exp. II 3  
  - EDCI 230, 287; PSY 209 or 218
- EDCI 392 Content Area Reading 3  
  - None
EDCI 461 Student Int. Gr. 7-12 10 All Student Internship Req.
EDFN 130 Intro to Teaching 2 None
EDFN 202 Teaching and Learn. Process 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 Sr. status
EDIS 250 Intro. Educational Intervention 3 None

93-95 hrs.

Plus Institutional Baccalaureate Degree Requirements.
*Biology electives must include at least 3 hours at the 300 level or above. They may not include BIO 493 and may include no more than 3 hours of BIO 497 and 498 combined.

Minor in Biology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Molec. &amp; Cell Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Organisms, Adapt. &amp; Divers.</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 202</td>
</tr>
<tr>
<td>6 additional hrs. of biology</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>1 sem. of General Chemistry</td>
<td>4</td>
<td>H.S. Chem., 3 yrs. H.S.</td>
</tr>
<tr>
<td>1 sem. of Math (Calc. or stats. rec.)</td>
<td>3-5</td>
<td>Math</td>
</tr>
</tbody>
</table>

25-27 hrs.

Biology Courses and Descriptions

See Course Descriptions section of catalog.
Business and Economics
Richard E. and Sandra J. Dauch
College of Business and Economics

Dean
Jeffrey E. Russell, Associate Professor of Economics

Associate Dean
Raymond A. Jacobs, Professor of Management

Director, Burton D. Morgan Center for Entrepreneurial Studies
Read F. Wakefield

Faculty by Department

ACCOUNTING/INFORMATION SYSTEMS
Chair: Kristine Parsons, Associate Professor of Accounting
J. David Lifer, Professor of Information Systems
Gary L. Margot, Professor of Information Systems
Paul G. Schloemer, Professor of Accounting
Kathleen M. Brennan, Associate Professor of Accounting
Victoria L. Kaskey, Associate Professor of Accounting
Beverly J. Piper, Associate Professor of Accounting
Nitin Walia, Assistant Professor of Information Systems

ECONOMICS/FINANCE
Chair: Mark A. Nadler, Associate Professor of Economics
Hongxia Wang, Associate Professor of Finance
James T. Falter, Assistant Professor of Finance
Ali Hashemi, Assistant Professor of Economics
Paul Holmes, Assistant Professor of Economics
Terry E. Rumker, Assistant Professor of Finance
Jeffrey E. Russell, Associate Professor of Economics
Wendy Wasnich, Assistant Professor of Economics

MANAGEMENT/INTERNATIONAL BUSINESS/ENTREPRENEURSHIP/SUPPLY CHAIN MGT.
Chair: Steven W. Pool, Professor of Management
Raymond A. Jacobs, Professor of Management
Khushwant K. Sidhu Pittenger, Professor of Management
Sivakumar Venkataramany, Professor of International Business
Michael Colburn, Associate Professor of Management
Constance M. Savage, Associate Professor of Management
Debra Westerfelt, Associate Professor of Management
Bo Li, Assistant Professor of Supply Chain Management
Robert Stoll, Assistant Professor of Management

Daniel W. Sullivan, Assistant Professor of Entrepreneurship
Joan Berry Kalamas, Professional Instructor of Management
Rebecca Schmeller, Professional Instructor of Management

MARKETING/HOSPITALITY MGT./FASHION MERCHANDISING/SPORT MANAGEMENT
Chair: Daniel Fox, Associate Professor of Marketing
Lance Kaltenbaugh, Associate Professor of Sport Management
Nancy Morris, Associate Professor of Fashion Merchandising
Ronald Paugh, Associate Professor of Marketing
Kenneth Brubaker, Assistant Professor of Sport Management
Kristen B. Hovsepian, Assistant Professor of Marketing
Diane B. Moretz, Assistant Professor of Marketing
Jennifer Parsons, Assistant Professor of Sport Management
Rene Rawraway, Assistant Professor of Hospitality Management
Richard D. Roberson, Assistant Professor of Hospitality Management

Degrees Offered
Bachelor of Arts
Bachelor of Science in Business Administration
Bachelor of Science
Master of Business Administration (separate catalog)

Accreditation of the Program
The College of Business and Economics received its initial professional accreditation for its degree programs (BA, BSBA and MBA) at all sites from the Accreditation Council for Business Schools and Programs (ACBSP) in June 1993. ACBSP granted the BSBA with a major in accounting, the MBA with a specialization in accounting, and the accelerated BSBA/MBA in accounting specialized accreditation in 2013, the eighth school in the U.S. and the first school in Ohio to be so recognized. The degree programs are also approved by the Ohio Board of Regents. These certifications serve to assure the public that the business education at Ashland University meets nationally recognized standards of quality in terms of professors, curriculum, methods of instruction, and financial support.

Vision/Mission/Core Values
Our program's vision is to be the provider of choice of managerial resources to organizations in the geographical areas we serve.
Our mission is to help our students achieve those competencies most prized by organizations wishing to hire or promote individuals into positions of increasing responsibility.

The core values of the program are:

* Competency-based education;
* Systematic stakeholder involvement and outcomes assessment;
* Continual program review and improvement;
* Partnership with current and potential employers; and
* Scholarly activities in research, application, integration, teaching, and service.

**Facilities and Equipment**

Offices and classrooms are in the Dauch College of Business and Economics building, completed in 2004, and the Rybolt Sport Science Center. Dauch includes the Burton D. Morgan Center for Entrepreneurial Studies. The business and economics programs provide more than 100 personal computers for student use with wireless Internet access available throughout the building. All classrooms are equipped with advanced instructional technology. The entrepreneurship program maintains a creativity/innovation lab that is available for all Ashland University students to use. A fully-equipped trading room is used by the finance program's Eagle Investment Group, enabling students to manage an investment portfolio with funds from the University's endowment.

**Student Learning Outcomes**

Success in business requires competence in the areas of communication, critical thinking, business knowledge and technical skills, leadership and teamwork skills, ethics, analytical and quantitative skills, and international and global perspective. Students graduating with a degree in Business Administration will demonstrate:

* The ability to communicate correctly and purposefully, integrating technology into writing and presentations;
* The ability to identify problems, analyze information, and form conclusions within the business context;
* Business knowledge from a variety of sub-disciplines and the ability to apply the knowledge and skills to reach solutions to business needs;
* The ability to inspire a shared vision, foster a realization of that vision, and facilitate a culture to realize goals of the vision;
* An understanding of the ethical behaviors and issues relevant to the business community;
* The ability to apply analytical and quantitative skills appropriate to support business decision making;
* An international and global perspective appropriate to a progressive business community that engages in international business activities.

**Institute for Contemporary Financial Studies**

The mission of the Institute is to complement the work in the discipline of finance, balancing theoretical understanding of the principles of corporate finance and investment management with hands-on experience in the field. The objective is to link the classroom with current financial research, elements of corporate finance, securities trading, and investment management functions as conducted by leading financial management firms across the country. Specifically, it is the goal of the Institute to prepare students of finance to be able to "Walk Down Wall St. With Anyone."

**Student Organizations**

The College of Business and Economics offers student groups which assist in the professional development of their disciplines: The American Marketing Association (AMA); APICS The Association for Operations Management; Business & Economics Scholars Team (BEST); Eagle Investment Group; Eagle Entrepreneurs; Eagle Eye Marketing; Enactus; Institute of Management Accountants (IMA); National Society of Minorities in Hospitality (NSMH); Sport Business Club (SBC); Society for Human Resource Management (SHRM); and Delta Mu Delta honor society (see below).

**Student Honor Society**

Students who excel in business administration are eligible for membership in Delta Mu Delta, an international honor society in business. The society honors junior and senior undergraduate students who have completed at least one-half of the work required for the degree with a GPA of 3.5 and who are in the top 20 percent of their college class in cumulative average grades. It also honors graduate students who have completed at least one-half of the MBA requirements with a GPA of 3.8. Candidates must receive faculty approval to join.

**Description of Majors**

Accounting – Accounting majors find jobs in public accounting firms as well as internal accounting departments of businesses and government agencies. Accounting is also an excellent background for those who desire leadership and executive positions. In addition to a focus on specialized knowledge, managerial thinking skills, and communication skills, the program highlights the following competencies that are relevant to success in the accounting field: maintaining high ethical and professional standards, teamwork, and proactivity.

Accounting Program Mission: The mission of the accounting program is to help our students achieve CPA licensure, professional accounting certifications, and those competencies most prized by accounting firms and other organizations wishing to hire or promote individuals into position of increasing responsibility.

Students may choose to broaden their career options by pursuing one of the following professional certifications:

CPA – Certified Public Accountant
CMA – Certified Management Accountant  
CIA – Certified Internal Auditor  
CFE – Certified Fraud Examiner  

Eligibility requirements for taking the examinations to earn these certifications include a baccalaureate degree in accounting with a prescribed core of additional business courses. The student who plans to take one of the professional certification exams should meet with his or her advisor for guidance in selecting the appropriate electives.

Those planning to take the CPA exam in the state of Ohio must complete at least 150 hours of undergraduate and/or graduate education. AU graduates must, therefore, take an additional 30 semester hours of coursework beyond the 120-hour requirement for their baccalaureate degree in order to take the CPA examination. These courses may be taken at AU or another university in either an undergraduate or graduate program. Students planning to take the CPA examination outside the state of Ohio should contact the relevant State Board of Accountancy for specific course and degree requirements.

Ashland University offers an accelerated BS/MBA (Bachelor of Science/Master of Business Administration with an Accounting Specialization.) Students who meet the admissions requirements can apply during their junior year and, if accepted, begin taking graduate classes during their senior year. Both the baccalaureate and graduate degrees will be conferred upon the completion of all program requirements. The combined degrees will require a minimum of 150 hours.

Business Management – Business management majors are provided the knowledge and skills to be successful business managers, form effective teams, lead people, manage resources, understand the conceptual frameworks required to operate a business, and pursue graduate programs or management careers in a wide variety of business and non-business enterprises. Majors develop personal portfolios listing accomplishments and showing examples of their work to prepare for the interview process and to provide prospective employers information about their potential.

In addition to a focus on specialized knowledge, managerial thinking skills, and communication skills, the management program helps students develop the competencies of: setting and achieving high standards; teamwork and managing/facilitating group processes; and self-control.

Entrepreneurship – The Entrepreneurship program prepares students for administrative and leadership positions in business, government, and other institutions. Specialized training is directed at understanding the broader aspects of business as it functions within a national and international environment. The program focuses on the development of entrepreneurial and leadership capabilities, including recognizing viable business opportunities, and developing business concepts that allow firms to take advantage of unique competencies and capabilities. There is substantial emphasis on the acquisition and allocation of resources and on organizing, leading, and empowering people. In addition, the program familiarizes the student with small and family businesses, including the analysis of personal strengths and weaknesses as they relate to launching an entrepreneurial career. The program provides considerable attention to elementary concepts of planning, financing, starting, and managing a new business.

Fashion Merchandising - This major combines coursework on product knowledge (fashion analysis, textiles, and fashion evolution) with courses in business (marketing, retail merchandising, and advertising). Students are prepared for careers in buying, selling, visual merchandising, or retail management. Students complete internships in the fashion industry. A cooperative program between Ashland University and the Fashion Institute of Technology in NYC gives the interested student the opportunity to spend the junior year completing an associate's degree in fashion merchandising management at FIT.

Finance – Finance students obtain knowledge in corporate finance, financial strategies, security analysis, investment portfolio management, money and banking, insurance, and global finance. They also have the unique opportunity to manage a portion of Ashland's endowment fund—actually making decisions about buying and selling of equity, fixed income, and other securities. They may also choose a curriculum to prepare to take the NASD Series Seven examination and become a licensed securities broker immediately upon graduation.

In addition to a focus on specialized knowledge, managerial thinking skills and communication skills, our finance program will help students to develop the competency of maintaining high ethical and professional behavior.

Hospitality Management – The hospitality management program concentrates on the management aspects of the industry. The major begins with the business administration core and adds courses in hospitality operations, both lodging and food and beverage, hospitality marketing, hospitality human resources, food safety, and strategic management of hospitality operations.
A wide range of elective courses allow the students to focus their studies in the areas of hospitality in which their career interest lie. Our students work at industry leading companies such as Disney, Marriott, and Hyatt. Students who complete internships and work experience obtain first-hand knowledge of the industry and a head start on their career.

Our hospitality management students are in demand because, in addition to a focus on specialized knowledge, managerial thinking skills, teamwork, and communication skills, a special emphasis is placed on the students to set and achieve high standards and to develop stamina and adaptability.

Information Systems – Information systems (IS) combines the fields of computers and information technology with business to prepare students for careers in systems analysis, systems design, or IS. Our program focuses on managing technology and change, a very real challenge for those who work with computing and IS.

In addition to a focus on specialized knowledge and communication skills, the IS program focuses heavily on the key managerial thinking competencies of logical thinking, conceptualization, and the application of theories and concepts to the real world.

International Business – This major combines a solid core of business courses with classes in international business/culture, international marketing, global finance, global management, international economics, and foreign languages. This major prepares the student to work for a foreign corporation or serve as an international business specialist for an American company.

Marketing – Organizations increasingly rely on marketing professionals to guide all aspects of business, from product conception to promotion to distribution. The marketing courses at Ashland provide the knowledge to succeed in many areas such as advertising, market research, brand management, new product planning, sales, and international marketing, to name just a few.

Our students take professional internships and participate in organizations such as the student chapter of the American Marketing Association and Students In Free Enterprise (SIFE) to gain different perspectives and experience.

In addition to focusing on specialized knowledge, managerial thinking skills, and communication skills, marketing majors also focus on competency of teamwork as they learn to work well with others.

Student Learning Objectives for Marketing
1. To provide an understanding of marketing principles and how these concepts play a part in the overall management and organization of a business entity.
2. To enhance the liberal arts philosophy in terms of what motivates people and how business must satisfy consumer wants and needs in the long term in order to survive and profit.

3. To prepare non-majors with a basic understanding of marketing principles and to prepare majors to understand and excel in their upper level courses.
4. To prepare those students interested in graduate work in marketing with the essentials, such as marketing research, marketing plan development, and insights into marketing-related fields such as advertising, retail merchandising, and sales.
5. To provide majors with the ability to create feasible business and marketing plans.
6. To provide those planning to teach the information to teach effectively the basic and more advanced principles of marketing.

Supply Chain Management – Supply chain management (SCM) prepares students to become leaders in supply management, the emerging paradigm for world-class corporations. It is a total systems approach taken by companies, suppliers, and partners to deliver manufactured products and services to the end customer. Information technology is used to coordinate all elements of the supply chain from sourcing parts to coordination of retailers to achieve a level of integration that results in a competitive advantage not available in traditional logistics systems. SCM is a major for students who wish to be involved in the management of operations (value-adding) processes; i.e., manufacturing, service production and delivery, distribution, and supply.

SCM builds on other areas of functional expertise that are part of the business degree, including marketing, finance, accounting, and strategic planning. The major provides a framework for linking these functional areas with specific areas of skill development that are focused in SCM, i.e., total quality management, productivity enhancement, and time-based competition. The major also provides in-depth analysis of operations decisions such as new product development, supply chain capacity planning, process technology planning, factory automation, and production systems planning.

Opportunities for Global Study
There are programs for summer and semester-long study abroad specifically for business students in Taiwan, France, and the Netherlands. Shorter-term business study-tours are available as well. In addition, business students can participate in all other options available through the Global Education office. For all the details, visit Global Education on-campus or on-line:
http://www.ashland.edu/students/academics/study-abroad

Degree Requirements
Assessment – The assessment of student learning outcomes for all business majors includes both internal and external assessments in selected courses, culminating in the MGT 489 Senior Seminar - Business Capstone course and the MGT 499 Senior Assessment course.
Bachelor of Arts with a major in Business Administration

Candidates for the BA degree with a major in Business Administration must complete the following courses for the major, plus a minor (or a second major.) Candidates also must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Acct.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Managerial Acct.</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ECON 232 Prin. of Microecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Prin. of Macroecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MGT 240 Intro to Mgmt.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MGT 323 Bus. Communication</td>
<td>3</td>
<td>ENG 102</td>
</tr>
<tr>
<td>MGT 401 Business Law I</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>MGT 499 Sr. Assessment</td>
<td>1</td>
<td>COBE Major, Sr. Status</td>
</tr>
<tr>
<td>MKT 233 Principles of Mktg.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Total undergraduate hours</td>
<td>64 hrs.</td>
<td></td>
</tr>
<tr>
<td>MBA 501 Organ. Design, Devel. &amp; Change</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MBA 503 Operations Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MBA 505 Financial Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MBA 507 Marketing Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MBA 517 Strategic Planning &amp; Policy</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MBA Accounting Electives</td>
<td>9</td>
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</tr>
<tr>
<td>ACCT 514 Special Topics in Acct.</td>
<td>(3)</td>
<td>ACCT 208</td>
</tr>
<tr>
<td>ACCT 535 Fund &amp; Nonprofit Acct.</td>
<td>(3)</td>
<td>ACCT 302</td>
</tr>
<tr>
<td>ACCT 538 Advanced Cost Mgt.</td>
<td>(3)</td>
<td>ACCT 208</td>
</tr>
<tr>
<td>ACCT 540 Advanced Accounting</td>
<td>(3)</td>
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<tr>
<td>MBA Electives</td>
<td>9</td>
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<tr>
<td>MBA 502 Managerial Economics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 504 Business Statistics</td>
<td>(3)</td>
<td>MATH 208</td>
</tr>
<tr>
<td>MBA 506 Business &amp; Society</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 509 International Bus. Mgt.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 510 Org. Behavior</td>
<td>(3)</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MBA 513 Management Inf. Syst.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 514 Special Topics in Bus.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 516 MBA Seminars</td>
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</tr>
<tr>
<td>MBA 530-599 Spec. Topics Courses</td>
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<tr>
<td>MBA Total Hours</td>
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<td></td>
</tr>
<tr>
<td>Total Combined Hours</td>
<td>97 hrs.</td>
<td></td>
</tr>
</tbody>
</table>

Accelerated Bachelor of Science /Master of Business Administration (BS/MBA)

Candidates for this dual BS/MBA degree must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement. In addition the following courses are required as listed below. Both the BS and MBA degrees will be conferred upon completion of all program requirements. Refer to the graduate catalog for specific information on admission requirements for this program.

ACCOUNTING MAJOR, MBA ACCOUNTING SPECIALIZATION

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ACCT 201 Financial Acct.</td>
<td>3</td>
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<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ACCT 205 Acct. Info. Sys.</td>
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<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>ACCT 207 Int. Accounting I</td>
<td>3</td>
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</tr>
<tr>
<td>ACCT 208 Int. Accounting II</td>
<td>3</td>
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</tr>
<tr>
<td>ACCT 302 Cost Management</td>
<td>3</td>
<td>ACCT 202</td>
</tr>
<tr>
<td>ACCT 308 Fed. Inc. Tax Indiv.</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>ACCT 406 Auditing, Prof. Ethics</td>
<td>3</td>
<td>ACCT 205, 207, MATH 208</td>
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<tr>
<td>ACCT 410 Law &amp; Prof Resp for Accountants</td>
<td>3</td>
<td>MGT 401</td>
</tr>
<tr>
<td>BUS 339/439 Acct. Internship</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>ECON 232 Prin. Of Microeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Prin. Of Macroeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 321 Business Spreadsheets</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
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<td>MATH 100 or ACT 18 or SAT 480</td>
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<tr>
<td>MGT 240 Intro. To Mgmt.</td>
<td>3</td>
<td>None</td>
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<tr>
<td>MBA 501 Organ. Design, Devel. &amp; Change</td>
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<td>MBA 503 Operations Management</td>
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<td>MBA 505 Financial Management</td>
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<td>None</td>
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<td>MBA 507 Marketing Management</td>
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<tr>
<td>MBA 517 Strategic Planning &amp; Policy</td>
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<tr>
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<tr>
<td>ACCT 514 Special Topics in Acct.</td>
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<td>ACCT 208</td>
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<td>ACCT 535 Fund &amp; Nonprofit Acct.</td>
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<td>ACCT 538 Advanced Cost Mgt.</td>
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<td>ACCT 540 Advanced Accounting</td>
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<td>MBA Electives</td>
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<tr>
<td>MBA 502 Managerial Economics</td>
<td>(3)</td>
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<td>MBA 506 Business &amp; Society</td>
<td>(3)</td>
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<tr>
<td>MBA 509 International Bus. Mgt.</td>
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<td>None</td>
</tr>
<tr>
<td>MBA 510 Org. Behavior</td>
<td>(3)</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MBA 513 Management Inf. Syst.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 514 Special Topics in Bus.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA 516 MBA Seminars</td>
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<td>None</td>
</tr>
<tr>
<td>MBA 530-599 Spec. Topics Courses</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MBA Total Hours</td>
<td>33 hrs.</td>
<td></td>
</tr>
<tr>
<td>Total Combined Hours</td>
<td>97 hrs.</td>
<td></td>
</tr>
</tbody>
</table>

Bachelor of Science with a comprehensive major in Accounting

Candidates for the BS degree with a major in Accounting must complete the following course requirements. Candidates must also complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Managerial Acct.</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ACCT 205 Acct. Info. Sys.</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
</tbody>
</table>
ACCT 207 Int. Accounting I 3  ACCT 201
ACCT 208 Int. Accounting II 3  ACCT 207
ACCT 302 Cost Management 3  ACCT 202
ACCT 406 Auditing, Prof. Ethics 3  ACCT 205, 207, MATH 208

ECON 232 Prin. Of Microeconomics 3  None
ECON 233 Prin. Of Macroeconomics 3  None
FIN 228 Financial Management 3  ACCT 201
IS 221 Information Technology 3  None
IS 321 Business Spreadsheets 3  ACCT 201, IS 221
MATH 208 Elementary Statistics 3  MATH 100 or ACT 18 or SAT 480

MGT 240 Intro. To Mgt. 3  None
MGT 319 Operations Mgt. 3  MGT 240, MATH 208
MGT 323 Bus. Communication 3  ENG 102
MGT 401 Business Law I 3  Jr. Status
MGT 489 Sr. Sem. - Bus. Capst. 3  COBE Major, Sr. Status
MGT 499 Sr. Assessment 1  COBE Major, Sr. Status

MKT 233 Principles of Mktg. 3  None

Choose one:
- BUS 239 Bus. Work Exp. (0)
- BUS 339 Bus. Internship (3)

Electives: 9
- ACCT 206 Forensic Acct. (3) ACCT 201
- ACCT 308 Fed. Inc. Tax. Individuals (3) ACCT 201, IS 221
- ACCT 410 Law & Prof. Resp. for Accountants (3) MGT 401
- ACCT 453 Spec. Topics Acct. (3) ACCT 208

70-73 hrs.

*Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator. It also fulfills the accounting core internship/work experience requirement.

Bachelor of Science in Business Administration (BSBA)

Candidates for the BSBA degree must complete the BSBA Core Requirements, plus one of the following BSBA majors, plus a minor (or a second major.) Candidates also must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

BSBA students are required to complete either an internship or work experience. Pre-approval by the BSBA Internship Director, completion of Learning Contract and registration in BUS 339 for internship or BUS 239 for work-experience is required. A student must work a minimum of 225 hours and prepare a professional portfolio.

On-line registration for BUS 239/339/439 is not permitted.

For more details visit www.ashland.edu/business-internships or https://myau.ashland.edu/Academics/colleges/businessandeconomics/Pages/Business-Internships.aspx.

### Core Requirements from Business and Economics:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
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<td>ECON 232 Prin. Of Microeconomics</td>
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<td>ACCT 201</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
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<td>None</td>
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<tr>
<td>IS 321 Business Spreadsheets</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
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<tr>
<td>MATH 208 Elementary Statistics</td>
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<td>MATH 100 or ACT 18 or SAT 480</td>
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<td>MGT 240 Intro. To Mgt.</td>
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<td>None</td>
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<tr>
<td>MGT 319 Operations Mgt.</td>
<td>3</td>
<td>MGT 240, MATH 208</td>
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<tr>
<td>MGT 323 Bus. Communication</td>
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<td>ENG 102</td>
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<tr>
<td>MGT 401 Business Law I</td>
<td>3</td>
<td>Jr. Status</td>
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<tr>
<td>MGT 324 Human Res. Mgmt.</td>
<td>3</td>
<td>MGT 307, 318 Mgmt.</td>
</tr>
<tr>
<td>MGT 424 Training &amp; Dev.</td>
<td>3</td>
<td>MGT 324</td>
</tr>
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<td>Electives (only 3 hrs. may be ECON)</td>
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</table>

Choose one:
- BUS 239 Bus. Work Exp. (0)
- *BUS 339 Bus. Intern/Coop. Ed. (3)

37-40 hrs.

### Core Requirements from other disciplines:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<th>Prerequisites</th>
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<td>MATH 208 Elementary Statistics</td>
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3 hrs.

### BUSINESS MANAGEMENT MAJOR:

<table>
<thead>
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<th>Course Number and Title</th>
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<tr>
<td>MGT 307 Org. Theory &amp; Design</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 318 Org. Behavior</td>
<td>3</td>
<td>MGT 240</td>
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<tr>
<td>MGT 324 Human Res. Mgmt.</td>
<td>3</td>
<td>MGT 307, 318 Mgmt.</td>
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<tr>
<td>MGT 424 Training &amp; Dev.</td>
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<td>MGT 324</td>
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Choose one:
- *BUS 339 Internship (3) Soph. Status
<table>
<thead>
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<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ENTP 245 Intro. to Entrepreneurship</td>
<td>3</td>
<td>None</td>
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<tr>
<td>ENTP 345 Ent./Family Bus. Mgmt.</td>
<td>3</td>
<td>ENTP 245, MGT 240, MKT 233</td>
</tr>
<tr>
<td>ENTP 365 Ent. Strat. &amp; Tactics</td>
<td>3</td>
<td>ENTP 245, MGT 240, MKT 233</td>
</tr>
<tr>
<td>ENTP 445 New Venture Creation</td>
<td>3</td>
<td>ENTP 245, MGT 240, MKT 233</td>
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<tr>
<td>ENTP 465 Financing a Business Venture</td>
<td>3</td>
<td>ENTP 345, 365, 445, MKT 233</td>
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<tr>
<td>MGT 307 Org. Theory &amp; Design</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 318 Org. Behavior</td>
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<td>MGT 240</td>
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<td>MGT 324 Human Res. Mgmt.</td>
<td>3</td>
<td>MGT 307, 318</td>
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<td>Electives:</td>
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<td>*BUS 339 Internship</td>
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<td>Soph. Status</td>
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<td>CS 175 Web Design</td>
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<tr>
<td>ECON 302 Econ/Hist. of Entrep.</td>
<td>3</td>
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</tr>
<tr>
<td>ECON 342 Global Economics</td>
<td>3</td>
<td>ECON 232 or 233</td>
</tr>
<tr>
<td>FIN 322 Pers. Asset/Mgmt.</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>IS 321 Business Spreadsheets</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>IS 346 E-Commerce</td>
<td>3</td>
<td>IS 221, MGT 233 or MKT 240</td>
</tr>
<tr>
<td>MGT 327 Risk and Ins.</td>
<td>3</td>
<td>ECON 232, 233, MATH 208</td>
</tr>
<tr>
<td>MGT 340 Mgmt. Science</td>
<td>3</td>
<td>IS 221, MATH 208</td>
</tr>
<tr>
<td>MGT 343 Soc. Resp./Bus. Ethics</td>
<td>3</td>
<td>MGT 240</td>
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<tr>
<td>MGT 423 Comp. &amp; Benefits</td>
<td>3</td>
<td>MGT 324</td>
</tr>
<tr>
<td>MGT 425 Empl. Law &amp; Labor Rel.</td>
<td>3</td>
<td>MGT 324</td>
</tr>
<tr>
<td>MGT 450 Spec. Topics – Mgmt.</td>
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<tr>
<td>MGT 480 Global Management</td>
<td>3</td>
<td>MGT 240, Sr. Stat.</td>
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<tr>
<td>MKT 310 Int. Bus./Culture</td>
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<tr>
<td>SCM 316 Supply Chain Mgmt.</td>
<td>3</td>
<td>MATH 208; MKT 233 or MKT 240</td>
</tr>
<tr>
<td>SCM 351 Lean Prod. &amp; Qual.</td>
<td>3</td>
<td>MGT 319</td>
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</tbody>
</table>

**Note:** This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements.

*Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.

---

**FASHION MERCHANDISING MAJOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>FM 111 Fashion Analysis</td>
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<tr>
<td>FM 112 Fashion Studio I</td>
<td>3</td>
<td>None</td>
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<tr>
<td>FM 211 Clothing &amp; Culture</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FM 316 Textiles</td>
<td>3</td>
<td>CHEM 251</td>
</tr>
<tr>
<td>FM 317 Fashion Industry</td>
<td>3</td>
<td>None</td>
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<tr>
<td>FM 413 Fashion Studio II</td>
<td>3</td>
<td>FM 112</td>
</tr>
<tr>
<td>FM 416 Fashion Merchandising</td>
<td>3</td>
<td>FM 317</td>
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<tr>
<td>FM 417 Fashion Evolution</td>
<td>3</td>
<td>None</td>
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<tr>
<td>FM 430 Fashion Promotion</td>
<td>3</td>
<td>FM 416</td>
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<tr>
<td>*BUS 339 Business Internship</td>
<td>3</td>
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<tr>
<td>CHEM 251 Molecular Architecture</td>
<td>3</td>
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<td>Elective (Choose one):</td>
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<tr>
<td>FM 312 Ready to Wear Analysis</td>
<td>3</td>
<td>FM 112</td>
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<tr>
<td>MKT 314 Advertising Principles</td>
<td>3</td>
<td>MKT 233</td>
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<tr>
<td>MKT 315 Retail Merchandising</td>
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<td>MKT 233, 36</td>
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</table>

**Note:** This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements.

*Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.*
**FINANCE MAJOR:**

**Finance Core:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ECON 334 Money and Banking</td>
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<td>ECON 233</td>
</tr>
<tr>
<td>FIN 329 Int. Financial Mgmt.</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 330 Principles of Investment</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 420 Financial Mgmt. Strat.</td>
<td>3</td>
<td>FIN 329, Sr. Status</td>
</tr>
<tr>
<td>MGT 327 Risk &amp; Insurance</td>
<td>3</td>
<td>ECON 232, 233, MATH 208</td>
</tr>
</tbody>
</table>

15 hrs.

Plus one of the following two tracks:

**Asset Management Track:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>FIN 358 Fin. Stmnt Anal./Sec. Val.</td>
<td>3</td>
<td>FIN 228</td>
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<tr>
<td>FIN 429 Global Finance</td>
<td>3</td>
<td>FIN 228</td>
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<tr>
<td>Electives:</td>
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<td></td>
</tr>
<tr>
<td>*BUS 339 Internship</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>FIN 322 Pers. Asset Mgmt.</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>FIN 422 Security Analysis</td>
<td>(3)</td>
<td>FIN 330</td>
</tr>
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<td>FIN 454 Spec. Topics in Fin.</td>
<td>(3)</td>
<td>FIN 228</td>
</tr>
<tr>
<td>IS 321 Fin. Spreadsheets</td>
<td>(3)</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>MGT 402 Business Law II</td>
<td>(3)</td>
<td>MGT 401</td>
</tr>
</tbody>
</table>

15 hrs.

Finance Core: 15 hrs.

Core Requirements from Business and Economics: 37-40

Core Req. from other disciplines: 3

70-73 hrs.

**Corporate Track:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 207 Int. Accounting I</td>
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<td>ACCT 208 Int. Accounting II</td>
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<tr>
<td>Electives:</td>
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</tr>
<tr>
<td>*BUS 339 Internship</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>FIN 322 Pers. Asset Mgmt.</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>FIN 358 Fin. Statement Anal./Sec. Val.</td>
<td>(3)</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 422 Security Analysis</td>
<td>(3)</td>
<td>FIN 330</td>
</tr>
<tr>
<td>FIN 429 Global Finance</td>
<td>(3)</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 454 Spec. Top. In Fin.</td>
<td>(3)</td>
<td>FIN 228</td>
</tr>
<tr>
<td>IS 321 Bus. Spreadsheets</td>
<td>(3)</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>MGT 402 Business Law II</td>
<td>(3)</td>
<td>MGT 401</td>
</tr>
</tbody>
</table>

15 hrs.

Finance Core: 15 hrs.

Core Requirements from Business and Economics: 37-40

Core Req. from other disciplines: 3

70-73 hrs.

**Note:** This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements.

*Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.*

---

**HOSPITALITY MANAGEMENT MAJOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 135 Intro to the Hospitality Industry</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HSM 234 Hotel Operations</td>
<td>3</td>
<td>HSM 135, MGT 240, ACCT 201</td>
</tr>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 250 Food/Bev. Operations Mgmt.</td>
<td>(3)</td>
<td>HSM 135, 235, MGT 240; HSM 335 (or concurrent)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 235 Hospitality Cost Control</td>
<td>3</td>
<td>MATH 208</td>
</tr>
<tr>
<td>HSM 334 Mgmt of Institutional Empl.</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>HSM 335 Environmental Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HSM 336 Food Preparation I</td>
<td>3</td>
<td>HSM 335</td>
</tr>
<tr>
<td>HSM 433 Hospitality Marketing</td>
<td>3</td>
<td>HSM 135, MGT 233</td>
</tr>
<tr>
<td>HSM 434 Strategies in the Hosp. Industry</td>
<td>3</td>
<td>HSM 234 or 250; MGT 401</td>
</tr>
</tbody>
</table>

| Electives:                               | 6    |                   |
| DIET 320 Human Nutrition                 | (3)  | CHEM 103 or 251 or 253 |
| HS 221 Food and Culture                  | (3)  | None              |
| HSM 234 Hotel Operations                 | (3)  | HSM 135, MGT 240, ACCT 201 |
| HSM 250 Food/Bev. Operations Mgmt        | (3)  | HSM 135, 235, MGT 240; HSM 335 (concurrent) |

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 337 Food Preparation II</td>
<td>(3)</td>
<td>HSM 336</td>
</tr>
<tr>
<td>HSM 410 Gaming/Casino Mgmt.</td>
<td>(3)</td>
<td>HSM 135, MATH 20</td>
</tr>
<tr>
<td>HSM 430 Beverage Management</td>
<td>(3)</td>
<td>HSM 135, 235</td>
</tr>
<tr>
<td>HSM 437 Event Planning</td>
<td>(3)</td>
<td>HSM 135, 235, 335, ACCT 201</td>
</tr>
<tr>
<td>HSM 480 Special Topics</td>
<td>(3)</td>
<td>HSM major</td>
</tr>
<tr>
<td>MGT 318 Organizational Behavior</td>
<td>(3)</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 324 Human Resource Mgmt.</td>
<td>(3)</td>
<td>MGT 307, 318</td>
</tr>
<tr>
<td>MKT 310 International Bus./Culture</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>MKT 317 International Marketing</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
</tbody>
</table>

| Core Requirements from Business          | 37-40|                   |
| Core Req. from other disciplines         | 3    |                   |

70-73 hrs.

**Note:** This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements.
### INFORMATION SYSTEMS MAJOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 370-371 Prog. for Bus.</td>
<td>3-3</td>
<td>IS 221</td>
</tr>
<tr>
<td>IS 372 Systems Anal. &amp; Design</td>
<td>3</td>
<td>IS 221</td>
</tr>
<tr>
<td>IS 470 Database Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 475 Network Fund./Info. Sec.</td>
<td>3</td>
<td>IS 370 or CS 121</td>
</tr>
<tr>
<td>Electives (only 2 courses may be from CS):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*BUS 339 Internship</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>CS 121 Comp. Prog. I</td>
<td>(4)</td>
<td>2 Yrs. HS Alg., 1 Yr. HS Geom.</td>
</tr>
<tr>
<td>CS 122 Comp. Prog. II</td>
<td>(4)</td>
<td>CS 121</td>
</tr>
<tr>
<td>IS 321 Business Spreadsheets</td>
<td>(3)</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>IS 346 E-Commerce</td>
<td>(3)</td>
<td>IS 221, MGT 240 or MKT 233</td>
</tr>
<tr>
<td>IS 452 Spec Topics in Info. Syst.</td>
<td>(1-3)</td>
<td>IS 327</td>
</tr>
<tr>
<td>IS 472 Decision Sup. Syst./B.Int.</td>
<td>(3)</td>
<td>IS 370 or CS 121</td>
</tr>
<tr>
<td>IS 479 Mgmt. of Info. Sys.</td>
<td>(3)</td>
<td>IS 372</td>
</tr>
<tr>
<td>MGT 340 Management Science</td>
<td>(3)</td>
<td>IS 221, MATH 208</td>
</tr>
</tbody>
</table>

Core Requirements from Business and Economics: 37-40 hrs.

Core Req. from other disciplines: 3 hrs. 67-70 hrs.

Note: This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements. *Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.

### INTERNATIONAL BUSINESS MAJOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose from:</td>
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</tr>
<tr>
<td>BUS 210 Study Tour</td>
<td>0-3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*BUS 339 Internship</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FL 299 GPS Narrative (study away exp.)</td>
<td>(0)</td>
<td>None</td>
</tr>
<tr>
<td>ECON 342 Global Economics</td>
<td>3</td>
<td>ECON 232 or 233</td>
</tr>
<tr>
<td>FIN 429 Global Finance</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>MGT 480 Global Management</td>
<td>3</td>
<td>MGT 240, Sr. Stat.</td>
</tr>
<tr>
<td>MKT 310 Internl. Bus./Culture</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MKT 317 Int. Marketing</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>200 level foreign language</td>
<td>6</td>
<td>100 Level of Prof.</td>
</tr>
<tr>
<td>300 level foreign language</td>
<td>6</td>
<td>30 hrs.</td>
</tr>
</tbody>
</table>

Core Requirements from Business and Economics: 37-40 hrs.

Core Req. from other disciplines: 3 hrs. 70-73 hrs.

Note: Students with less than two years of secondary school credits in a language will normally begin with the 100-level elementary courses. In that case, this major will be 36 hours. Those with two or more years of language will complete a placement test to determine their level. Completion of the language requirement for this major will meet the Institutional GPS requirement. *Note: This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements. *Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.

### MARKETING MAJOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 311 Mkt. Ana. &amp; Research</td>
<td>3</td>
<td>IS 221, MKT 233, MATH 208</td>
</tr>
<tr>
<td>MKT 313 Salesmanship</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 326 Consumer Behavior</td>
<td>3</td>
<td>PSYC 101</td>
</tr>
<tr>
<td>MKT 411 Marketing Mgmt.</td>
<td>3</td>
<td>Sr. Status</td>
</tr>
<tr>
<td>PSYC 101 Gen. Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Electives:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*BUS 339 Internship</td>
<td>(3)</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>BUS/MATH 341 Appl. Regres.</td>
<td>(3)</td>
<td>MATH 208 or 318</td>
</tr>
<tr>
<td>HSM 433 Hospitality Mktg.</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>IS 346 E-Commerce</td>
<td>(3)</td>
<td>IS 221; MGT 240 or MKT 233</td>
</tr>
<tr>
<td>MGT 343 Soc. Resp. &amp; Bus. Ethics</td>
<td>(3)</td>
<td>MKT 240</td>
</tr>
<tr>
<td>MKT 402 Business Law II</td>
<td>(3)</td>
<td>MKT 401</td>
</tr>
<tr>
<td>MKT 314 Adv. Principles</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 315 Retail Merch.</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 317 International Mktg.</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 333 Services Mktg.</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 451 Spec. Topics Mktg.</td>
<td>(3)</td>
<td>Sr. Status</td>
</tr>
<tr>
<td>SCM 316 Supply Chain Mgmt.</td>
<td>(3)</td>
<td>MATH 208; MKT 233 or MGT 240</td>
</tr>
</tbody>
</table>

Core Requirements from Business and Economics: 37-40 hrs.

Core Req. from other disciplines: 3 hrs. 70-73 hrs.
Note: This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements. Note: Courses may not count both in the required area and the elective area.

*Note: The Internship must be related to the major and pre-approved by the COBE internship coordinator.

SUPPLY CHAIN MANAGEMENT MAJOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 346 E-Commerce</td>
<td>3</td>
<td>MKT 233 or MGT 240; IS 221</td>
</tr>
<tr>
<td>MGT 318 Org. Behavior</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 340 Mgmt. Science</td>
<td>3</td>
<td>IS 221, MATH 208</td>
</tr>
<tr>
<td>MKT 311 Market Ana. &amp; Res.</td>
<td>3</td>
<td>IS 221, MATH 203, MATH 208</td>
</tr>
<tr>
<td>SCM 243 Procurement</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>SCM 316 Supply Chain Mgmt.</td>
<td>3</td>
<td>MKT 233 or MGT 240, MATH 208</td>
</tr>
<tr>
<td>SCM 350 Logistics</td>
<td>3</td>
<td>SCM 316</td>
</tr>
<tr>
<td>SCM 351 Lean Prod. &amp; Quality</td>
<td>3</td>
<td>MGT 319</td>
</tr>
<tr>
<td>SCM 431 Supply Chain Strategy</td>
<td>3</td>
<td>SCM 351</td>
</tr>
</tbody>
</table>

27 hrs.

Core Requirements from Business and Economics

Core Req. from other disciplines 3

67-70 hrs.

Note: This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements. Note: Courses may not count both in the required area and the elective area.

BUSINESS MANAGEMENT MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 240 Intro. to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MGT 307 Org. Theory &amp; Design</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 318 Org. Behavior</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>MGT 324 Human Res. Mgmt.</td>
<td>3</td>
<td>MGT 307, 318</td>
</tr>
</tbody>
</table>

15 hrs.

*Note: The Internship must be related to the minor and pre-approved by the COBE internship coordinator.

ACCOUNTING MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Fin. Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Man. Accounting</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ACCT 205 Acct. Info. Systems</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>ACCT 207 Int. Accounting I</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Electives:</td>
<td>6</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ACCT 206 Forensic Acct.</td>
<td>(3)</td>
<td>ACCT 201</td>
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</table>

ENTREPRENEURSHIP MINOR:

<table>
<thead>
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<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 245 Intro. to Ent.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ENTP 345 Entrep./Family Bus. Mgmt.</td>
<td>3</td>
<td>ENTP 245, MGT 240, MGT 233</td>
</tr>
<tr>
<td>ENTP 365 Ent., Strat. &amp; Tactics</td>
<td>3</td>
<td>ENTP 245, MGT 240, MGT 233</td>
</tr>
<tr>
<td>ENTP 445 New Venture Creation</td>
<td>3</td>
<td>ENTP 245, MGT 240, MGT 233</td>
</tr>
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</table>

18 hrs.

FASHION MERCHANDISING MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM 111 Fashion Analysis</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FM 317 Fashion Industry</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FM 416 Fashion Merchandising</td>
<td>3</td>
<td>FM 317</td>
</tr>
<tr>
<td>Choose 6 hrs. from:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>FM 417 Fashion Evolution</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>FM 430 Fashion Promotion</td>
<td>(3)</td>
<td>FM 416</td>
</tr>
<tr>
<td>MKT 314 Advertising Principles</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
<tr>
<td>MKT 315 Retail Merchandising</td>
<td>(3)</td>
<td>MKT 233</td>
</tr>
</tbody>
</table>
*BUS 339 Business Internship (3) Jr. Status

15 hrs.

*Note: The Internship must be related to the minor and pre-approved by the COBE internship coordinator.

**FINANCE MINOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Fin. Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Man. Accounting</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ECON 232 Prin. of Microecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Prin. of Macroecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 329 Inter. Financial Mgmt.</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 330 Principles of Investment</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MGT 327 Risk &amp; Insurance</td>
<td>3</td>
<td>ECON 232, 233, MATH 208</td>
</tr>
<tr>
<td>Elective:</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
</tbody>
</table>

*BUS 339/439 Internship (3) Soph. Status

30 hrs.

*Note: The Internship must be related to the minor and pre-approved by the COBE internship coordinator.

**HOSPITALITY MANAGEMENT MINOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>HSM 135 Intro to Hospitality Industry</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HSM 235 Food &amp; Beverage Control</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HSM 335 Env. Management</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>HSM 336 Food Production I</td>
<td>3</td>
<td>Soph. Status</td>
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</table>

12 hrs.

**INFORMATION SYSTEMS MINOR:**

<table>
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<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 372 Systems Anal. &amp; Design</td>
<td>3</td>
<td>IS 221</td>
</tr>
<tr>
<td>IS 470 Database Mgmt.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Electives:</td>
<td>6-7</td>
<td></td>
</tr>
<tr>
<td>ACCT 205 Acct. Info. Syst.</td>
<td>3</td>
<td>ACCT 201, IS 221</td>
</tr>
<tr>
<td>*BUS 339/439 Internship</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
</tbody>
</table>

**INTERNATIONAL BUSINESS MINOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Man. Accounting</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 429 Global Finance</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>MGT 240 Intro. to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MGT 480 Global Management</td>
<td>3</td>
<td>MGT 240, St. Status</td>
</tr>
<tr>
<td>MKT 233 Princ. of Marketing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Elective:</td>
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<td></td>
</tr>
<tr>
<td>BUS 210 Study Tour</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>*BUS 339/439 Internship</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>COM 302 Intercultural Communication</td>
<td>3</td>
<td>COM 101</td>
</tr>
<tr>
<td>ECON 342 Global Economics</td>
<td>3</td>
<td>ECON 232 or 233</td>
</tr>
<tr>
<td>200 level Foreign language</td>
<td>3</td>
<td>100 level or Prof.</td>
</tr>
<tr>
<td>HIST 301 Cult. Geography</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>POLSC 205 Comp. Politics</td>
<td>3</td>
<td>POLSC 101 or 102</td>
</tr>
<tr>
<td>POLSC 301 Am. Foreign Policy</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>REL 307 World Religious Traditions</td>
<td>3</td>
<td>REL 106 or 107</td>
</tr>
</tbody>
</table>

27 hrs.

*Note: The Internship must be related to the minor and pre-approved by the COBE internship coordinator.

**MARKETING MINOR:**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
</tbody>
</table>
SUPPLY CHAIN MANAGEMENT MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MGT 240 Intro. to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MGT 319 Operations Mgmt.</td>
<td>3</td>
<td>MGT 240, MATH</td>
</tr>
<tr>
<td>MKT 233 Princ. of Marketing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SCM 243 Procurement</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>SCM 316 Supply Chain Mgmt.</td>
<td>3</td>
<td>MKT 233 or MGT 240; MATH 208</td>
</tr>
<tr>
<td>SCM 350 Logistics</td>
<td>3</td>
<td>SCM 316</td>
</tr>
<tr>
<td>SCM 351 Lean Prod. &amp; Quality</td>
<td>3</td>
<td>MGT 319</td>
</tr>
</tbody>
</table>

24 hrs.

Minors for Non-Business Majors Only

The following minors are crafted specifically for non-business majors, and may not be taken by students majoring in business or sport management.

BUSINESS ADMINISTRATION MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Acct.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 232 Princ. of Microecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 233 Princ. of Macroecon.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>FIN 322 Personal Asset Mgmt.</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>MGT 240 Intro. to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MKT 233 Principles of Mktg.</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

18 hrs.

ENTREPRENEURSHIP MINOR:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTP 245 Intro. to Ent.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ENTP 365 Ent. Strat. &amp; Tactics</td>
<td>3</td>
<td>ENTP 245, MGT 240, MKT 233</td>
</tr>
<tr>
<td>ENTP 445 New Venture Creation</td>
<td>3</td>
<td>ENTP 245, MGT 240, MKT 233</td>
</tr>
<tr>
<td>MGT 240 Intro. to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MKT 233 Princ. of Marketing</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

15 hrs.

Business Courses and Descriptions

See Business Course Descriptions section of catalog.

ECONOMICS

Student Learning Outcomes

1. To provide an understanding of economic principles and institutions as an essential preparation for effective citizenship.
2. To enhance the liberal arts philosophy through knowledge in applied logic and problem solving.
3. To provide a basic educational background for positions in business and government.
4. To prepare interested students for graduate study in economics.
5. To provide training for effective teaching of economic subject matter in grades K through 12.

Student Honor Society

Omicron Delta Epsilon, Phi chapter, an international honor society in economics, honors junior economics majors and/or senior students with majors or minors in economics and a 3.0 cumulative average.

Description of Major

Economics majors study the principles and institutions that form the foundation of our economy. We look at the policies that affect the development of industries, the growth of the economy, and consumers' standard of living. In addition to gaining specialized knowledge and communication skills, economics majors focus most of their attention on the key managerial thinking competencies of logical thinking, conceptualization, and the application of theories and concepts to the problems found in the real world.

Degree Requirements

Assessment — First, the student will be required to demonstrate a level of professional economic thought and practice. An instrument that measures knowledge given at the completion of ECON 440 and a project completed in either ECON 438 or one of the other advanced courses will assess this.

Second, the student will provide evidence of the ability to collaborate successfully with other people in the profession. Activities which satisfy this requirement may include an internship, an independent research project, or a presentation of joint faculty/student papers at a professional conference.
Bachelor of Arts with a major in Economics

Candidates for the BA degree with a major in Economics must complete the following courses for the major, plus a minor (or a second major.) Candidates also must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 232 Princ. of Microecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Princ. of Macroecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 332 Int. Microecon.</td>
<td>3</td>
<td>ECON 232</td>
</tr>
<tr>
<td>ECON 333 Int. Macroecon.</td>
<td>3</td>
<td>ECON 233</td>
</tr>
<tr>
<td>ECON 342 Global Economics</td>
<td>3</td>
<td>ECON 232 or 233</td>
</tr>
<tr>
<td>ECON 438 Empirical Methods in Economics</td>
<td>3</td>
<td>ECON 232, 233; 332 or 333; Math208</td>
</tr>
<tr>
<td>ECON 440 Senior Assessment</td>
<td>1</td>
<td>All ECON crse. Wrk. Or Concur.</td>
</tr>
<tr>
<td>ECON electives 300 &amp; above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
</tbody>
</table>

31 hrs.

Bachelor of Science in Business Administration (BSBA) with a major in Economics

Candidates for the BSBA degree with a major in Economics must complete the BSBA Core Requirements, plus the following Economics course requirements, plus a minor (or a second major.) Candidates also must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 332 Int. Microecon.</td>
<td>3</td>
<td>ECON 232</td>
</tr>
<tr>
<td>ECON 333 Int. Macroecon.</td>
<td>3</td>
<td>ECON 233</td>
</tr>
<tr>
<td>ECON 342 Global Economics</td>
<td>3</td>
<td>ECON 232 or 233</td>
</tr>
<tr>
<td>ECON 438 Empirical Methods in Economics</td>
<td>3</td>
<td>ECON 232, 233; 332 or 333; Math208</td>
</tr>
<tr>
<td>ECON 440 Senior Assessment</td>
<td>1</td>
<td>All ECON crse. or concur.</td>
</tr>
<tr>
<td>ECON electives 300 &amp; above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Core Requirements from Business and Economics</td>
<td>37-40</td>
<td></td>
</tr>
<tr>
<td>Core Req. from other disciplines</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

62-65 hrs.

Note: This major may only be taken as part of the BSBA degree, including the BSBA Core Requirements.

Minor in Economics

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 232 Prin. of Microecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Prin. of Macroecon.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 332 Int. Microecon.</td>
<td>3</td>
<td>ECON 232</td>
</tr>
<tr>
<td>ECON 333 Int. Macroecon.</td>
<td>3</td>
<td>ECON 233</td>
</tr>
<tr>
<td>ECON electives 300 &amp; above</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

18 hrs.

Economics Courses and Descriptions

See Course Descriptions section of catalog.

SPORT MANAGEMENT

Mission Statement

The mission of the Department of Sport Management is to prepare professional sport managers to succeed at the highest levels in their chosen field, with major emphases on professional, intercollegiate, and recreational sport.

Student Learning Outcomes

The sport management program is a comprehensive major that provides opportunities for students to develop requisite proficiencies in preparation for a career in the sport industry. The coursework reflects established standards for sport management programs (Sport Management Program Review Council, 2000). Students completing the sport management major will be able to:

1. Recognize that sport is a microcosm of society influenced by cultural traditions, social values, and psycho-social experiences;
2. Understand that sport managers are immersed in the socio-cultural milieu, with sport as the focus;
3. Define and understand the concepts of management and leadership;
4. Describe the various skills, roles, and functions of sport managers;
5. Describe the elements of leadership theory and practices as they relate to the various managerial responsibilities;
6. Recognize and identify moral issues related to sport in its intrinsic and extrinsic dimensions;
7. Develop a personal philosophy regarding social responsibility in the sport management setting;
8. Apply fundamental marketing concepts to the sport industry;
9. Understand sport as a product;
10. Understand sport's unique aspects, the sport consumer markets, and the sport product markets;
11. Be familiar with the principles of interpersonal communication, mass communication, and interaction with the public, particularly as they relate to the sport agency;
12. Understand why budget and finance in sport is a critical component of all sports-related industries;
13. Be familiar with sound financial control methods and principles applied in sport;
14. Understand the legal concepts in sport settings that are most likely to be encountered in the workplace;
15. Obtain an understanding of economic principles related to sport as a national industry;
16. Be familiar with the agencies governing sport, their authority, organizational structure, and functions; and
17. Demonstrate knowledge, skills, and dispositions through an integrated field experience.

**Description of Major**

Sport is an integral part of our culture, both as an entertainment and a leisure activity. It has a tremendous economic impact as well. The sport management major prepares graduates for diverse roles in the areas of sport marketing and promotions, sport administration, facility management and planning, activity programming, and events management. Students pursuing degrees in sport management will develop their potential through the acquisition of knowledge, skills, and dispositions that will facilitate and enhance their opportunities to successfully acquire and execute careers within the sport industry.

**Bachelor of Science with a comprehensive major in Sport Management**

Candidates for the BS degree with a major in Sport Management must complete the following Sport Management course requirements. Candidates also must complete the Institutional Baccalaureate Degree requirements, including the GPS requirement.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 232 Principles of Microeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MGT 240 Intro to Management</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MGT 323 Bus. Communication</td>
<td>3</td>
<td>ENG 102</td>
</tr>
<tr>
<td>MGT 401 Business Law I</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>MGT 489 Sr. Seminar - Bus. Capst.</td>
<td>3</td>
<td>COBE major, Sr. Status</td>
</tr>
<tr>
<td>MGT 499 Sr. Assessment</td>
<td>1</td>
<td>COBE major, Sr. Status</td>
</tr>
<tr>
<td>MKT 233 Principles of Marketing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 101 Gen. Psychology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SMG 161 Concepts of Sport/Rec., Leisure</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SMG 168 Field Experience in Sport I</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>SMG 238 Field Experience in Sport II</td>
<td>2</td>
<td>SMG 168</td>
</tr>
<tr>
<td>SMG 262 Facilities Design &amp; Event Management in Sport</td>
<td>3</td>
<td>SMG 161</td>
</tr>
<tr>
<td>SMG 292 Legal Aspects</td>
<td>3</td>
<td>SMG 161 or ATR 165</td>
</tr>
<tr>
<td>SMG 360 Research in Sport</td>
<td>3</td>
<td>MATH 208</td>
</tr>
<tr>
<td>SMG 405 Management of Sport</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>SMG 408 Ethics and Social Issues in Sport</td>
<td>3</td>
<td>SMG 161</td>
</tr>
<tr>
<td>SMG 415 Sport Marketing</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>SMG 420 Governance and Policy in Sport Org.</td>
<td>3</td>
<td>SMG 161</td>
</tr>
<tr>
<td>SMG 430 Financial Principles in Sport</td>
<td>3</td>
<td>SMG 161, ACCT 201, ECON 232</td>
</tr>
<tr>
<td>SMG 435 Global Perspectives in Sport</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

SMG 440 Professional Sem.: Sport Leadership 3
SMG 450 Internship in Sport 6
Electives: 6
SMG 255 Leadership of Sport (3) None
SMG 313 Outdoor Programming (3) None
SMG 370 International Tourism (3) None
SMG 404 Psychology of Sport and Coaching (3) ATR 165 or SMG 161; PSYC 101 recommended

82 hrs.

**Plus Institutional Baccalaureate Degree Requirements**

**Minor in Sport Management**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMG 161 Concepts of Sport/Rec., Leisure</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SMG 262 Facilities Design/Event Mgmt.</td>
<td>3</td>
<td>SMG 161</td>
</tr>
<tr>
<td>SMG 405 Management of Sport</td>
<td>3</td>
<td>MGT 240</td>
</tr>
<tr>
<td>SMG 408 Ethics and Sociat Issues</td>
<td>3</td>
<td>SMG 161</td>
</tr>
<tr>
<td>Choose any 2 additional SMG prefix courses from SM Major</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

18 hrs.

**Minor in Coaching**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXS 190 Anatomy &amp; Physiology for Exercise Science</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>EXS 309 Physiology of Exercise</td>
<td>3</td>
<td>EXS 190 or BIO 125 or ATR 165</td>
</tr>
<tr>
<td>EXS 474 Sport Nutrition &amp; Substance Abuse</td>
<td>3</td>
<td>HS 190</td>
</tr>
<tr>
<td>HS 182 First Aid &amp; CPR</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>CIS 170 Foundations of Coaching</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Two courses chosen from:</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>CIS 321 - CIS 328</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

17 hrs.

**Courses and Descriptions**

See Course Descriptions section of catalog.
Chemistry and Biochemistry
Department of Chemistry/Geology/Physics
The College of Arts and Sciences

Chair
Rebecca W. Corbin, Professor of Chemistry

Faculty
Matthew L. Arthur, Professor of Chemistry
Perry S. Corbin, Professor of Chemistry
Brian K. Mohney, Professor of Chemistry
Jeffrey D. Weidenhamer, Professor of Chemistry, Trustees' Professor
Robert G. Bergosh, Associate Professor of Chemistry
Trina M. Mohney, Professional Instructor of Chemistry
Nicholas Johnson, Visiting Assistant Professor of Chemistry

Degrees Offered
Bachelor of Science
Bachelor of Science in Education

Mission and Goals
The chemistry program prepares chemistry and other science majors to apply the scientific method to problems and to discover the intimate relation of chemistry to all phases of everyday life and to other sciences. Chemistry majors graduate with the background and skills necessary for jobs in commerce, industry, or education, or further graduate or professional training.

The program places heavy emphasis on faculty/student interactions, hands-on training with instrumentation, and data analysis tools such as computer modeling and spreadsheets. The importance of writing and communication skills is stressed throughout the curriculum, beginning in the introductory courses and carried through every course offered by the department.

The chemistry program seeks to provide non-science majors with the basic understanding of the nature of science needed to live as responsible citizens in a technological society. Students gain an understanding of the scientific method through an in-depth analysis of topics and case studies, selected hands-on activities in classroom and laboratory, and exploration of the consequences of scientific discoveries for society.

Student Learning Outcomes
Students in chemistry and related programs will:
1. Describe and apply the major concepts, experimental findings, and theories of chemistry;
2. Be proficient with the laboratory techniques and methods of chemistry;
3. Follow proper safety procedures and regulations for use of chemicals and laboratory equipment;
4. Be competent with basic software including word processing, spreadsheet, and presentation programs;
5. Design appropriate investigations, interpret the results and make decisions within the context of chemistry;
6. Effectively communicate information both orally and in writing; and
7. Practice of good ethical and professional behavior within the context of the discipline.

Chemistry Facilities and Equipment
The chemistry program is approved by the American Chemical Society. Eight laboratories and ample classroom space accommodate the needs of the faculty and students. The Ingmand laboratory houses chromatography and spectroscopy instruments that students will use in industry, a clinical setting, or graduate school. Recent acquisitions include a graphite furnace atomic absorption spectrophotometer for measuring trace metals, a high-performance liquid chromatograph for determination of natural products and pharmaceutical agents, a spectrofluorimeter for protein-ligand binding studies, a MALDI-TOF mass spectrometer, and a high field NMR spectrometer. The Fran and Warren Rupp Foundation Environmental Geochemistry laboratory, which houses an X-ray fluorescence spectrometer, is shared with the geology program. The chemistry curriculum is structured so that students begin hands-on use of these instruments during their first two years at Ashland University.

Pre-Professional Programs
Chemistry courses make up a substantial component of the required curriculum for a number of pre-professional programs. For minimum requirements, see the Academic Affairs section on pre-professional programs. The chemistry faculty along with other departments has developed recommended course sequences that give students the needed background to continue studies in professional schools. A major in chemistry, biochemistry, or forensic chemistry is a strong preparation for professional schools in medicine, dentistry, veterinary medicine, and pharmacy.
Description of Majors

Chemistry – Chemistry is the study of the structure and behavior of atoms, compounds and their properties, and reactions. Whether it is the development of new pharmaceuticals to treat disease, new materials, or reduction of environmental hazards, chemists are at work in many industries and related disciplines such as geology and biology. A degree in chemistry can open the door to almost any scientific or technological field, as well as careers in medicine, business, and law.

Biochemistry – Biochemists apply chemistry to understand biological processes at the cellular and molecular level. Biochemists seek to understanding the structure and function of molecules found in living organisms. The interdisciplinary nature of biochemistry and molecular biology are blurring the traditional boundary lines between biology and chemistry.

Forensic Chemistry – Forensic chemists apply modern instrumental methods of analysis to criminal investigations. The forensic chemistry major equips students with a well rounded, multi-disciplinary experience necessary for careers and advanced graduate work in forensic science, law, chemistry, and associated fields of science and engineering.

Majors in chemistry, biochemistry, and forensic chemistry are provided with broad training in chemistry and biochemistry and extensive, hands-on laboratory training, along with the opportunity to conduct independent research with one of our faculty. Our graduates have been successful in continuing their education in graduate and professional schools, and in obtaining positions in chemical and pharmaceutical companies, and government laboratories.

Degree Requirements

Assessment – The assessment of student learning outcomes for chemistry, biochemistry, and forensic chemistry majors includes both internal and external assessments in selected courses, typically culminating in the CHEM 497 Laboratory and Field Research course or the CHEM 493 Internship course.

Bachelor of Science with a comprehensive major in Chemistry

CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103-104 Gen. Chemistry</td>
<td>4/4</td>
<td>H.S. Chem; 3 yrs H.S. math</td>
</tr>
<tr>
<td>CHEM 307/307L Org. Chem. I</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 308/308L Org. Chem. II</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 411-412 Physical Chem.</td>
<td>4/4</td>
<td>PHYS 206</td>
</tr>
<tr>
<td>MATH 205-206 Calculus</td>
<td>5/5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>PHYS 205-206 Univ. Physics</td>
<td>5/5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>MATH 305 The Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
</tbody>
</table>

MATH 307 Linear Algebra (3) MATH 202, 206 or 224

51-52 hrs.

GENERAL TRACK

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Core</td>
<td>51-52</td>
<td></td>
</tr>
<tr>
<td>Other 400-level CHEM courses</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Other 400-level CHEM, GEOL, or BIO</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>or 300-level MATH or PHYS course if</td>
<td></td>
<td></td>
</tr>
<tr>
<td>needed to reach at least 60 hrs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

60-61 hrs.

Plus Institutional Baccalaureate Degree Requirements.

ACS APPROVED TRACK

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Core</td>
<td>51-52</td>
<td></td>
</tr>
<tr>
<td>CHEM 416 Adv. Inorg. Chem.</td>
<td>4</td>
<td>CHEM 411</td>
</tr>
<tr>
<td>CHEM 420 Inst. Analysis</td>
<td>4</td>
<td>CHEM 320</td>
</tr>
<tr>
<td>CHEM 429/429L Biochemistry</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>400-level Chem. elect. (incl. CHEM 497)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

66-67 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science with a comprehensive major in Biochemistry

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Organ. Adapt. &amp; Divers.</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 424 Cell Biology</td>
<td>4</td>
<td>12 hrs. Bio., Bio 303</td>
</tr>
<tr>
<td>CHEM 103 General Chemistry I</td>
<td>4</td>
<td>H.S. Chem., 3 yrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 104 General Chemistry II</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 307/307L Org. Chem. I</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 308/308L Org. Chem. II</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 411/411L Phys. Chem. I</td>
<td>4</td>
<td>PHYS 206</td>
</tr>
<tr>
<td>CHEM 429/429L Biochemistry</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 439 Adv. Topics in Biochemistry</td>
<td>3</td>
<td>CHEM 429</td>
</tr>
<tr>
<td>MATH 205 Calculus I</td>
<td>5</td>
<td>MATH 111 or Equ.</td>
</tr>
<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>PHYS 205 Univ. Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHYS 206 Univ. Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
</tbody>
</table>

67 hrs.

Plus Institutional Baccalaureate Degree Requirements.
Bachelor of Science with a comprehensive major in
Forensic Chemistry

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Org. Adapt. &amp; Divers.</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 202</td>
</tr>
<tr>
<td>CHEM 103-104 Gen. Chemistry</td>
<td>4/4</td>
<td>H.S. Chem; 3 yrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 307/307L Org. Chem. I</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 308/308L Org. Chem. II</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 411/411L Phys. Chem.</td>
<td>4</td>
<td>PHYS 206</td>
</tr>
<tr>
<td>CHEM 420 Inst. Analysis</td>
<td>4</td>
<td>CHEM 320</td>
</tr>
<tr>
<td>CHEM 429/429L Biochemistry</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 493 Internship</td>
<td>3</td>
<td>Junior Status</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 497 Laboratory and Field Research</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>CJ 130 Intro to Criminal Justice</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 200 Criminal Investigation</td>
<td>3</td>
<td>CJ 130</td>
</tr>
<tr>
<td>COM 208 Arg. &amp; Advocacy</td>
<td>3</td>
<td>COM 101</td>
</tr>
<tr>
<td>MATH 205-206 The Calculus I/II</td>
<td>5/5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>PHIL 280 Applied Ethics</td>
<td>1-2</td>
<td>None</td>
</tr>
<tr>
<td>PHYS 205-206 Univ. Physics</td>
<td>5/5</td>
<td>MATH 206</td>
</tr>
</tbody>
</table>

77-78 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Chemistry (Chemistry Licensure) Grades 7-12

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103 General Chemistry I</td>
<td>4</td>
<td>H.S. Chem., 3 Yrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 104 General Chemistry II</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>CHEM 307/307L Org. Chem. I</td>
<td>4</td>
<td>CHEM 104</td>
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<tr>
<td>CHEM 308/308L Org. Chem. II</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force</td>
<td>3</td>
<td>Any Natural Science Core Course</td>
</tr>
<tr>
<td>CHEM 411/411L Physical Chemistry</td>
<td>4</td>
<td>PHYS 206</td>
</tr>
<tr>
<td>CHEM 429/429L Biochemistry</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>MATH 205 Calculus I</td>
<td>5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>PHYS 205 University Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHYS 206 University Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
<tr>
<td>Choose one from:</td>
<td>4</td>
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70-78 hrs.

Choose two from:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Org. Adapt. &amp; Divers.</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 202</td>
</tr>
<tr>
<td>BIO 305 Evolution</td>
<td>3</td>
<td>BIO 202; 303 or Concurrent</td>
</tr>
<tr>
<td>BIO 310 Ecology</td>
<td>(4)</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 325 Anat. &amp; Phys. I</td>
<td>(4)</td>
<td>BIO 201</td>
</tr>
<tr>
<td>BIO 326 Anat. &amp; Phys. II</td>
<td>(4)</td>
<td>BIO 325</td>
</tr>
<tr>
<td>BIO 340 Microbiology</td>
<td>(4)</td>
<td>BIO 201; CH 104</td>
</tr>
<tr>
<td>BIO 411 Limnology</td>
<td>(4)</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 424 Cell Biology</td>
<td>(4)</td>
<td>12 hrs Bio, BIO 303 or Concur.</td>
</tr>
<tr>
<td>BIO 428 Molecular Biology</td>
<td>(4)</td>
<td>BIO 303</td>
</tr>
<tr>
<td>CHEM 104 Gen. Chem II</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
</tbody>
</table>

85 hrs.
CHEM 320 Quant. Analysis 4
CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force 3
GEOL 101 Physical Geology 4
GEOL 102 Historical Geology 4
Choose one from:
- PHYS 107 Hidden Life of the Stars (3) H.S. Alg. & Trig.
- PHYS 320 Origins of the Universe (3) H.S. Alg. & Trig.
General Physics option:
- MATH 201 Calculus with App. I (3) 2 yrs. H.S. Alg., 1 yr. H.S. Geom.

PHYS 202 Gen. Physics II (4) PHYS 201
GEOL 311 Minerology (4) GEOL 101
CHEM 307/307L Org. Chemistry I (4) CHEM 104

OR
University Physics option:
- MATH 205 Calculus I (5) MATH III or Equiv
- MATH 206 Calculus II (5) MATH 205
- PHYS 205 Univ. Phys. I (5) MATH 206
- PHYS 206 Univ. Phys. II (5) PHYS 205

Education Requirements: 64-66 hrs.
Related Concentration:
- EDCI 287 Curr./Instr./Assess. 7-12 3 EDFN 202
- EDCI 318 Tch. 21st Cent. Adolesc. Science 3 EDFN*202; EDCI*235 or EDCI*287

Choose one from:
- PSYC 209 Dev. Psych. (3) PSYC 101
- PSYC 218 Psyc. Of Adol. (3) None

Remaining Education Requirements:
- EDCI 230SEC AYA Field Exp. I 1 Concurrent with EDCI 287
- EDCI 330SEC AYA (7-12) Field Exp. II 3 EDCI 230, 287; PSYC 209 or 218
- EDCI 392 Content Area Reading 3 None
- EDCI 460 Student Internship Gr. 7-12 10 All Student Internship Req.
- EDFN 130 Intro. To Teaching 2 None
- EDFN 202 Teaching and Learn. Process 3 EDFN 130
- EDFN 402 Social and Prof. Issues 3 Sr. Status
- EDIS 250 Intro. Educational Intervention 3 None

104-106 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Physical Science (Grades 7-12)

See listing in Physics.
Communication Studies
Department of Communication Studies
(Health & Risk Communication, Public Relations & Strategic Communication, Sport Communication)
The College of Arts and Sciences

Chair
Theodore A. Avtgis, Professor of Communication Studies

Faculty
Deleasa Randall-Griffiths, Associate Professor of Communication Studies
Dan O'Rourke, Associate Professor of Communication Studies
Pravin Rodrigues, Associate Professor of Communication Studies
Dariela Rodriguez, Assistant Professor of Communication Studies

Degrees Offered
Bachelor of Arts

Mission Statement
The Department of Communication Studies is dedicated to its students by providing innovative and diverse leadership, intellectual rigor, and collaboration in a culture of scholarship.

Student Learning Outcomes
The Communication Studies student will:
1. Demonstrate an understanding of the complexity of human communication as an ongoing transaction between speakers and listeners and writers and readers through various practices of communication;
2. Demonstrate critical thinking and understanding of the power and influence of human and mediated communication through analysis and development of communicative messages;
3. Demonstrate proficiency in presenting oral communication skills for an audience;
4. Demonstrate proficiency in written communication skills through written projects;
5. Adhere to the accepted social, legal, ethical and justice-seeking responsibilities of communication scholars and professionals; and
6. Demonstrate an understanding of, and practical experience in, the various professional communication fields through internships and research credit.

Description of Majors
Health & Risk Communication: The Health and Risk Communication major prepares students for careers by use of theory, data, and skills that are applicable to a wide range of cultures and people. The major also prepares the student with a sense of equity and justice in the realm of healthcare and safety regarding those who are most vulnerable and susceptible to danger. Students are engaged in and contribute to the ethically-based discourse of communication-related issues regarding healthcare and risk that are being deliberated daily at local, national, and international levels. This program is also one of the most innovative programs nationally for communication studies students in both its form and function.

Public Relations & Strategic Communication: Students majoring in public relations and strategic communication master the art and science of relating to diverse publics using a variety of media and communication strategies and vehicles. Students are prepared to work in public relations with a focus on message construction and image management, bridging organizations and their public audiences. An emphasis will be placed on leadership and organizational communication. Students will develop critical thinking, research, and audience analysis skills that are necessary for any organization. Students will be prepared to execute successful public relations campaigns for any organization or sector including industry, government, education, and healthcare.

Sport Communication: Sport communication majors focus on communication theory, research, and application that covers a broad range of communication phenomena within the sport industry. Students study sport culture, sport organizations, informatics, sport relationships, and fandom to prepare them for fields such as sport public relations, sports sales, marketing, management, coaching, and continuation in graduate studies.

Experiential Learning
The communication studies programs offer off-campus opportunities in a variety of organizations including industry, healthcare, non-profit, and government agencies. Practical research opportunities will be available to students desiring to apply their skills to actual organizations (serving as consultants and/or trainers) resulting in the student accumulating valuable professional experience and credentialing.
The sport communication program offers opportunities for students to work in cooperation with the Ashland University sports information office and with its NCAA Division II athletic teams in a wide variety of men's and women's sports. Sport communication students also have the opportunity to work with external amateur and professional sport organizations in the Cleveland, Columbus, and Akron areas.

Degree Requirements
Assessment – Majors in the department will be expected to participate in programmatic assessment during the process of completing their degree requirements. This process includes, but is not limited to, the submission of writing samples and presentations. Faculty will inform the students in their major classes as to which projects will be collected for assessment.

Bachelor of Arts with a major in Health & Risk Communication
This program prepares students to effectively navigate the many relational and logistic challenges of modern day health and safety organizations. Students have the opportunity to build their portfolio consisting of research projects, accomplishments, internships, and other health and risk communication experiences. The program does require a minor or dual major.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Human Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 120 Found. Of Health Commun.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>COM 204 Commun. Theory &amp; Research</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 224 Topics: Health &amp; Risk Comm.</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 270 Research Meth. in Comm.</td>
<td>3</td>
<td>COM 101 or 120; MATH 208</td>
</tr>
<tr>
<td>COM 304 Interpersonal Communication</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 305 Organiznl. Comm.</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 320 Health Communication</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 370 Health Informatics in Comm.</td>
<td>1</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 420 Health Public Relations</td>
<td>3</td>
<td>COM 101 or 120; Jr. status</td>
</tr>
<tr>
<td>COM 425 Risk &amp; Crisis Communication</td>
<td>3</td>
<td>COM 101 or 120; Jr. Stat.</td>
</tr>
<tr>
<td>COM 436 Internship in Comm. Std.</td>
<td>2</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 470 Research Exp. In Comm. Std.</td>
<td>(2)</td>
<td></td>
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<tr>
<td>PHIL 280 Medical Ethics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HSCGH 202 Global Chall. in Pub. Hlth.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 301 Game Theory</td>
<td>3</td>
<td>core math/logic req.</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>Elective (Choose 1):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COM 206 Small Group Comm.</td>
<td>(3)</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 301 Public Speaking</td>
<td>(3)</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 302 Intercultural Communication</td>
<td>(3)</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 343 Conflict &amp; Communication</td>
<td>(3)</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>PSYC 330 Health Psychology</td>
<td>(3)</td>
<td>PSYC 101</td>
</tr>
</tbody>
</table>

45 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Arts with a major in Public Relations & Strategic Communication
This program prepares students to effectively create, deliver, and assess message campaigns and strategies in sectors such as healthcare, non-profit, not-for-profit, for profit, and government agencies. Students have the opportunity to build their portfolio consisting of research projects, accomplishments, internships, and other public relations experiences. The program does require a minor or dual major.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Human Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 120 Found. of Health Commun.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>COM 204 Commun. Theory &amp; Research</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 205 Intro to Public Relations</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 208 Argumentation &amp; Advocacy</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>COM 211 Public Relations Writing</td>
<td>3</td>
<td>COM 205</td>
</tr>
<tr>
<td>COM 270 Research Meth. In Comm.</td>
<td>3</td>
<td>COM 101 or 120; MATH 208</td>
</tr>
<tr>
<td>COM 301 Public Speaking</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 302 Intercultural Communication</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 304 Interpersonal Communication</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 305 Organiznl. Commun.</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 430 Strategic Communication</td>
<td>3</td>
<td>COM 211, 305</td>
</tr>
<tr>
<td>COM 436 Internship in Comm. Std.</td>
<td>(2-3)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
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<tr>
<td>COM 470 Research Exp. In Comm. Std.</td>
<td>(1)</td>
<td>COM 211, Jr. Status</td>
</tr>
<tr>
<td>COM 474 Public Relations Campaigns</td>
<td>3</td>
<td>COM 211, Jr. Status</td>
</tr>
<tr>
<td>Choose one:</td>
<td>3</td>
<td></td>
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<tr>
<td>COM 221 Topics in Public Relations</td>
<td>(3)</td>
<td>COM 205</td>
</tr>
<tr>
<td>COM 323 Sport Public Relations</td>
<td>(3)</td>
<td>COM 163</td>
</tr>
<tr>
<td>COM 420 Health Public Relations</td>
<td>(3)</td>
<td>COM 101 or 120; Jr. Status</td>
</tr>
<tr>
<td>COM 425 Risk &amp; Crisis Comm.</td>
<td>(3)</td>
<td>COM 101 or 120; Jr. Status</td>
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</tbody>
</table>

45 hrs.

Plus Institutional Baccalaureate Degree Requirements.
Bachelor of Arts with a major in Sport Communication

This program prepares students for communication positions within sports and the sporting industry. Students have the opportunity to build their portfolio consisting of research projects, accomplishments, internships, and experiences. The program does require a minor or dual major.

### Course Number and Title

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<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Human Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 120 Found. of Health Commun.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM 163 Found. of Sport Comm.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM 204 Commun. Theory &amp; Research</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 244 Sport, Comm. &amp; Cult.</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 270 Research Meth. in Comm.</td>
<td>3</td>
<td>COM 101 or 120: MATH 208</td>
</tr>
<tr>
<td>COM 313 Gender and Race in Sport</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 323 Sport Public Relations</td>
<td>3</td>
<td>COM 163</td>
</tr>
<tr>
<td>COM 375 Informatics in Sport Commun.</td>
<td>1</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 410 Relational Commun. in Sport</td>
<td>3</td>
<td>COM 101 or 120; COM 163</td>
</tr>
<tr>
<td>COM 415 Commun.in Sport Organ.</td>
<td>3</td>
<td>COM 101 or 120; COM 163</td>
</tr>
<tr>
<td>COM 436 Internship in Comm. Stds.</td>
<td>2</td>
<td>see course description</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 470 Research Exp. In Comm. Std.</td>
<td>2</td>
<td>see course description</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>Choose one elective from:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SMG 255 Leadership of Sport</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SMG 360 Sport Research</td>
<td>3</td>
<td>MATH 208</td>
</tr>
<tr>
<td>SMG 415 Sport Marketing</td>
<td>3</td>
<td>MKT 233</td>
</tr>
<tr>
<td>SMG 435 Global Perspectives in Sport</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM 223 Topics in Sport Comm.</td>
<td>3</td>
<td>COM 163</td>
</tr>
<tr>
<td>COM 242 Sport Reporting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 280 Sport Psychology</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

36 hrs.

### Minor in Public Relations

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Human Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 120 Found. of Health Commun.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM 205 Intro to Public Relations</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 211 Public Relations Writing</td>
<td>3</td>
<td>COM 205</td>
</tr>
<tr>
<td>COM 221 Topics in Public Relations</td>
<td>3</td>
<td>COM 205</td>
</tr>
<tr>
<td>Choose one:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COM 224 Topics: Health &amp; Risk Comm.</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 323 Sport Public Relations</td>
<td>3</td>
<td>COM 163</td>
</tr>
<tr>
<td>COM 420 Health Public Relations</td>
<td>3</td>
<td>COM 101 or 120: Jr. Status</td>
</tr>
<tr>
<td>COM 425 Risk &amp; Crisis Comm.</td>
<td>3</td>
<td>COM 101 or 120: Jr. Status</td>
</tr>
</tbody>
</table>

15 hrs.

### COM Courses and Descriptions

See Course Descriptions section of catalog.

### Minor in Health & Risk Communication

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Human Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 120 Found. of Health Commun.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM 320 Health Communication</td>
<td>3</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 370 Health Informatics in Comm.</td>
<td>1</td>
<td>COM 101 or 120</td>
</tr>
<tr>
<td>COM 420 Health Public Relations</td>
<td>3</td>
<td>COM 101 or 120: Jr. Status</td>
</tr>
<tr>
<td>COM 425 Risk &amp; Crisis Comm.</td>
<td>3</td>
<td>COM 101 or 120: Jr. Status</td>
</tr>
</tbody>
</table>

36 hrs.

### Minor in Health & Risk Communication

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 280 Medical Ethics</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>
| HSCGH 202 Global Chall. in Pub.                 | 3    | None                | 16 hrs.
Computer Science
Department of Mathematics/Computer Science
The College of Arts and Sciences
http://www.ashland.edu/departments/math-computer-science

Chair
Iyad Ajwa, Professor of Computer Science

Faculty
Paul Cao, Associate Professor of Computer Science
Boris Kerkez, Associate Professor of Computer Science

Degrees Offered
Bachelor of Science
Bachelor of Arts

Mission
The mission of the Department of Mathematics and Computer Science is to educate students in the areas of mathematics and computer science. The department is committed to providing the students with a broad overview of the central concepts of mathematics, computer science, and logic. The mathematics and computer science curricula is supported by the foundation of a liberal arts education.

Student Learning Outcomes
1. Students will learn and demonstrate the fundamental knowledge of the discipline.
2. Students will have an understanding of and demonstrate competence in logical thought, critical thinking, and problem solving.
3. Students will clearly and accurately express discipline-specific ideas in both written and oral form.

Facilities and Equipment
All classrooms are equipped with networked instructor workstations, including audiovisual and computer projection systems. Programming courses are taught in a computer classroom with student workstations. In addition to the university network and open computer labs, the department maintains a dedicated laboratory for majors. The lab contains a wide variety of computer hardware, running Windows, Linux, Mac OS X, and Solaris operating systems. The computers are equipped with scientific typesetting software, software development tools, compilers, word processors, spreadsheet programs, database programs, web design and programming tools, audio and video editing software, multimedia software, computer algebra systems, statistical and geometric software, and many other applications.

Internships
Computer science majors and minors are encouraged to take advantage of internship opportunities. Most computer-related internships are paid positions. Some positions are available on campus during the school year while others are in industry, usually during the summer. A student may receive course credit for an internship through the University Elective Internship Program (see the description of CS 493 for requirements).

Student Organizations
Any interested student may join either the student chapter of the Association for Computing Machinery or the Mathematics Association of America.

Upsilon Pi Epsilon, Ohio Epsilon chapter, honors students who have shown academic excellence in the computing sciences. The purpose of the society is to promote the computing sciences and to encourage its contribution to the enhancement of knowledge. Computer science majors who have completed 60 hours of overall course work with a GPA of at least 3.5 are eligible for membership.

Description of Majors
Both the Bachelor of Science and Bachelor of Arts degrees prepare students for jobs in industry, such as computer programmer, software developer, systems analyst, or for further study in graduate school. The breadth of learning in the program will enable the student to be a versatile employee.

Degree Requirements
Assessment — As part of the department assessment process, majors in computer science will be asked to complete a survey during the spring of their sophomore year and again during their last semester before graduating.

Bachelor of Science with a comprehensive major in Computer Science
This program is designed for those students who wish to pursue a career in science, with heavy emphasis on computer science.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121 Computer Prog. I</td>
<td>4</td>
<td>2 yrs. H.S. Alg, 1 yr H.S. Geom.</td>
</tr>
<tr>
<td>CS 122 Computer Prog. II</td>
<td>4</td>
<td>CS 121</td>
</tr>
<tr>
<td>CS 230 Data Structures</td>
<td>3</td>
<td>CS 122, MATH 223</td>
</tr>
<tr>
<td>CS 301 Computer Architecture</td>
<td>3</td>
<td>CS 122</td>
</tr>
<tr>
<td>CS 302 Theory of Computation</td>
<td>3</td>
<td>MATH 224</td>
</tr>
<tr>
<td>CS 303 Computer Algorithms</td>
<td>3</td>
<td>CS 230, MATH 224</td>
</tr>
<tr>
<td>CS 304 Programming Languages</td>
<td>3</td>
<td>CS 230, MATH 224</td>
</tr>
<tr>
<td>Course Number and Title</td>
<td>Hrs.</td>
<td>Prerequisites</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>CS 421 Operating Systems</td>
<td>3</td>
<td>CS 230, 301</td>
</tr>
<tr>
<td>CS 499 Software Development</td>
<td>3</td>
<td>CS 304</td>
</tr>
<tr>
<td>MATH 201-202 Applied Calculus I-II</td>
<td>3/3</td>
<td>2 yrs H.S. alg., 1 yr H.S. Geom.</td>
</tr>
<tr>
<td>MATH 205 Calculus I</td>
<td>(5)</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 223 Discrete Math. I</td>
<td>3</td>
<td>3 yrs. HS Coll Prep Math</td>
</tr>
<tr>
<td>MATH 224 Discrete Math. II</td>
<td>3</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MATH 250 Mathematical Proof</td>
<td>1</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MATH 307 Linear Algebra</td>
<td>3</td>
<td>MATH 202, 206, or 224</td>
</tr>
<tr>
<td>2 courses from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CS 409 Compiler Design</td>
<td>(3)</td>
<td>CS 302, 304</td>
</tr>
<tr>
<td>CS 427 Computer Graphics</td>
<td>(3)</td>
<td>CS 303, MATH 307</td>
</tr>
<tr>
<td>CS 433 Computer Networks</td>
<td>(3)</td>
<td>CS 230, 301</td>
</tr>
<tr>
<td>CS 460 Adv. Topics in CS</td>
<td>(3)</td>
<td>CS 230</td>
</tr>
<tr>
<td>1 course from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CS 175 Web Design</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>CS 260 Topics in CS</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>CS 275 Web Programming</td>
<td>(3)</td>
<td>CS 122</td>
</tr>
<tr>
<td>MATH 308 Op. Research</td>
<td>(3)</td>
<td>MATH 224</td>
</tr>
<tr>
<td>IS 372 Systems Anal./Design</td>
<td>(3)</td>
<td>IS 221</td>
</tr>
<tr>
<td>IS 470 Database Mgmt.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>IS 472 Decision Sup. Syst./B.Int.</td>
<td>(3)</td>
<td>IS 370 or CS 121</td>
</tr>
<tr>
<td>IS 473 Adv. Systems Dev.</td>
<td>(3)</td>
<td>IS 371, 372, 470</td>
</tr>
<tr>
<td>Any additional 400-level CS course</td>
<td>(3)</td>
<td></td>
</tr>
<tr>
<td>Science electives</td>
<td>6-7</td>
<td></td>
</tr>
<tr>
<td>**</td>
<td>60-61 hrs.</td>
<td></td>
</tr>
</tbody>
</table>

**Electives may be from biology, chemistry, computer science, geology, math, or physics, excluding CS 101, and MATH 100, 110.

### Plus Institutional Baccalaureate Degree Requirements.

**Bachelor of Arts with a major in Computer Science**

This program is designed for those students who wish to pursue a career primarily related to computer science. This program does require a minor or a dual major.

### Minor in Computer Science

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121 Computer Prog. I</td>
<td>4</td>
<td>2 yrs. H.S. Alg., 1 yr H.S. Geom</td>
</tr>
<tr>
<td>CS 122 Computer Prog. II</td>
<td>4</td>
<td>CS 121</td>
</tr>
<tr>
<td>CS 230 Data Structures</td>
<td>3</td>
<td>CS 122, MATH 223</td>
</tr>
<tr>
<td>2 courses from:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CS 301 Computer Arch.</td>
<td>(3)</td>
<td>CS 122</td>
</tr>
<tr>
<td>CS 302 Theory of Comp.</td>
<td>(3)</td>
<td>MATH 224</td>
</tr>
<tr>
<td>CS 303 Computer Algorithms</td>
<td>(3)</td>
<td>CS 230, MATH 224</td>
</tr>
<tr>
<td>CS 304 Programming Lang.</td>
<td>(3)</td>
<td>CS 230, MATH 224</td>
</tr>
<tr>
<td>CS 421 Operating Systems</td>
<td>3</td>
<td>CS 230, 301</td>
</tr>
<tr>
<td>CS 499 Software Development</td>
<td>3</td>
<td>CS 304</td>
</tr>
<tr>
<td>MATH 201-202 Applied Calculus I-II</td>
<td>3/3</td>
<td>2 yrs. H.S. Alg., 1 yr H.S. Geom</td>
</tr>
</tbody>
</table>

**Computer Science Courses and Descriptions**

See Course Descriptions section of catalog.  

---

**Bachelor of Science with a comprehensive major in Computer Art and Graphics Programming**

See listing in Art.

---

**Plus Institutional Baccalaureate Degree Requirements.**

See Course Descriptions section of catalog.
Criminal Justice and Sociology
Department of Criminal Justice/Social Work
The College of Arts and Sciences

Chair
Cindy Moseman, Assistant Dean in the College of Arts and Sciences

Faculty
Jeffrey Spelman, Associate Professor of Criminal Justice
Marc Hedrick, Professional Instructor of Criminal Justice

Degrees Offered
Associate of Arts
Bachelor of Science

Mission
The mission of the Criminal Justice program is to provide a strong knowledge base in law enforcement, courts, and corrections in an effort to prepare students with practical and professional knowledge for employment in the criminal justice system.

Student Learning Outcomes
Students will:
1. Explain the major components of the criminal justice system including police, courts, and corrections;
2. Describe the importance of the criminal justice system to society;
3. Differentiate between the Classical School explanation of crime and the Positivist School explanations of crime including biological, psychological, and sociological theories;
4. Create and defend solutions to a criminal justice ethical dilemma using an ethical theory.

Description of Major
The criminal justice major is built upon a strong liberal arts base provided by the University's core curriculum. Course work in the major is structured in a manner that acquaints students with the basic concepts and content areas of the field of criminal justice including law enforcement, corrections, and the courts. The major introduces the criminal justice system as a concept that demonstrates the connectedness and the interdependence of making laws, breaking laws, and reacting to the breaking of laws. This process is referred to as justice, and its application as the criminal justice system. The criminal justice major acquires a basic understanding of the importance of the liberal arts to criminal justice, a sound knowledge base of criminal justice, and an understanding of the basic philosophical foundation and the major theories of the cause of crime and the application of law.

Student Honor Society
Students who have excelled in criminal justice are eligible for membership in Alpha Phi Sigma, a national honor society. Membership is by invitation to those students who have demonstrated good character, maintained an overall GPA of 3.2 and a 3.2 in criminal justice course work, and completed at least three semesters or equivalent of full-time studies and a minimum of 12 hours in criminal justice. Students must also have the recommendation of the Alpha Phi Sigma adviser.

Pre-Law
There is no one way to prepare for law school or a legal career. The study of law requires a variety of skills, including proficient writing, critical reasoning, analytical reading, and self-discipline. Good legal practice requires an appreciation of history, social and political institutions, and, in general, a developed understanding of human nature. Those approaching a profession in law should possess an especially acute sense of values, since their actions will affect the lives of many people.

We do not believe that any particular major or set of courses uniquely provides these skills, sensitivities, and values. Thus, Ashland University does not offer a Pre-Law major or minor. We instead believe that a broad background in the liberal arts is the best way to prepare for the study of law, perhaps supplemented by some courses which introduce legal concepts. Students are encouraged to get in touch with one of the Pre-Law advisers through the Academic Advising office in order to further define their course of studies.

Degree Requirements
Assessment – Students will submit specified assignments during certain CJ classes as indicated on the course syllabi and assessment plan. These assignments will be analyzed to determine whether the student learning outcomes of the department have been met.

Bachelor of Science with a comprehensive major in Criminal Justice
The concentration requirement can be met through the completion of an 18-hour minor from another discipline, a second major from another area, or a collection of 18 hours from another area which supports the student’s interest. All concentrations must be approved by the chair of the Department of Criminal Justice/Sociology.

Course Number and Title                         Hrs.   Prerequisites
SOC 111 Princ. of Sociology                   3      None
CJ 130 Intro to Criminal Justice             3      None
CJ 227 Intro. to Corrections                  3      None
CJ 270 Role of Police 3 CJ 130
CJ 242 Criminology 3 None
CJ 362 Criminal Law 3 CJ 130
CJ 450 Ethics in Criminal Justice 3 CJ 130, 362 Sr. Status
MATH 208 Elementary Statistics 3 MATH 100 or ACT
18 or SAT 480
SOC 460 Research Methods 3 MATH 208,SOC 111
Electives (choose 6 courses) 3 must be at 300 level or above:
CJ 200 Crim. Investigation I (3) CJ 130
CJ 235 Courts and Justice (3) CJ 130
CJ 240 Crim. Investigation II (3) CJ 130, 200
CJ 244 Juvenile Delinquency (3) None
CJ 275 Gangs and Cults (3) None
CJ 303 Crim. Organizations (3) CJ 242
CJ 307 Victimology (3) None
CJ 331 Topics in Criminal Justice (3) None
CJ 360 Read. In Crime & Justice (3) None
CJ 366 Criminal Procedure (3) CJ 130, 362
CJ 403 Field Experience (3) Chair Approval
CJ 415 Adv. Criminology & Profiling (3) CJ 242
SOC 202 Alcoholism & Sub. Abuse (3) None
SOC 301 Race, Ethnic & Min. Issues (3) None
Concentration area 18 CJ Chair Approval
63 hrs.

Plus Institutional Baccalaureate Degree Requirements

Minor in Criminal Justice

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 111 Principles of Sociology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 130 Intro to Criminal Justice</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 242 Criminology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 270 Role of Police</td>
<td>3</td>
<td>CJ 130</td>
</tr>
<tr>
<td>Electives in CJ</td>
<td>6</td>
<td>18 hrs.</td>
</tr>
</tbody>
</table>

Minor in Sociology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 111 Princ. of Sociology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Electives in sociology*</td>
<td>15</td>
<td>18 hrs.</td>
</tr>
</tbody>
</table>

*SOC 460 is highly recommended.

Associate of Arts with a concentration in Criminal Justice

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 111 Principles of Sociology</td>
<td>3</td>
<td>None</td>
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<tr>
<td>CJ 130 Intro to Criminal Justice</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 227 Intro to Corrections</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CJ 242 Criminology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CJ 270 Role of Police</td>
<td>3</td>
<td>CJ 130</td>
</tr>
</tbody>
</table>

Criminal Justice Courses and Descriptions
See Course Descriptions section of catalog.

Sociology Courses and Descriptions
See Course Descriptions section of catalog.
Education

Departments of Curriculum/Instruction; Early Childhood; Educational Foundations and Instruction; Inclusive Services and Exceptional Learners; and Leadership Studies

The Dwight Schar College of Education

Interim Dean
Linda Billman, Associate Professor

Director of Field Experiences and Internships
Joseph Hendershott

Director of UG Teacher Education at Elyria
Sandra Gallagher

Columbus Field Experience and Internship
Placement Coordinator
William White

Faculty by Department

EARLY CHILDHOOD
Chair: Mary Rycik, Professor
Jacalyn Morton, Professor
Maria Sargent, Professor
Fredrick Burton, Associate Professor
Crystal Kaiser, Associate Professor
Brenda Rosler, Associate Professor
Susan Stewart, Assistant Professor
Diane Craig, Professional Instructor
Terri Jewett, Professional Instructor
Tanzeah Sharpe, Assistant Professor

EDUCATIONAL FOUNDATIONS AND INSTRUCTION
Chair: Deanna Romano, Associate Professor
Joan Knickerbocker, Professor
Dave Kommer, Professor
James Rycik, Professor
Carl Walley, Professor
Howard Walters, Professor
Rachel Wlodarsky, Professor
Penny Arnold, Associate Professor
Linda Billman, Associate Professor
Cathryn Chappell, Associate Professor
Jason Ellis, Associate Professor
Rosaire Ifedi, Associate Professor
Nate Myers, Associate Professor
Marian Maxfield, Assistant Professor

INCLUSIVE SERVICES AND EXCEPTIONAL LEARNERS
Chair: Allison Dickey, Associate Professor
Jane Piirto, Professor, Trustees' Professor
Carla Abreu-Ellis, Associate Professor
Bonnie Adams, Associate Professor
James Chapple, Assistant Professor
Stephen Denney, Assistant Professor
Sarah Hall, Assistant Professor
Connie Ericson, Professional Instructor

LEADERSHIP STUDIES
Chair: Judy Alston, Professor
Carol Engler, Associate Professor
Amy Klinger, Associate Professor
Robert Thiede, Assistant Professor
Sunny Munn, Assistant Professor
James Olive, Associate Professor

Degree Offered
Bachelor of Science in Education

Description of Majors

Majoring in a given field of education will enable students to become knowledgeable of the content and pedagogy needed to teach within various learning environments. The students must also complete additional requirements to obtain a teaching license. These requirements include passing appropriate licensure exams, completing background checks, and successfully meeting additional criteria as determined by the College of Education and the Ohio Department of Education.

Department of Early Childhood

Early Childhood – In addition to the core requirements, students study literacy, foundations of early childhood, behavior management, intervention techniques and assessment, and appropriate content methods. Extensive field experiences are built into the program. Early childhood majors are prepared to work with children in pre-kindergarten through grade three who have mild to moderate educational needs.
Early Childhood Intervention Specialist – Similar to their early childhood counterparts, early childhood interventionist majors study the core requirements, literacy, foundations of early childhood, behavior management, intervention techniques and assessment, and appropriate content methods. They learn how to work with children, aged three to eight, who have mild to intensive educational needs and are in inclusive settings. Candidates may also earn an additional license in Early Childhood to teach in any Pre K-3 setting.

Department of Educational Foundations and Instruction

Middle Grades – Majors prepare to teach in grades 4-9 in two of four content areas: language arts, social studies, math, or science. This program includes early field experiences in middle level setting, block courses taught by faculty, strong foundation in literacy, and specific instruction in working with diverse student populations.

Majors in Adolescent and Young Adult Licensure Programs – Located in other colleges, students majoring in these programs work toward a grade 7-12 license in integrated English/language arts, integrated mathematics, integrated social studies, biology/life science, chemistry, earth science, or physical science. See specific departments for descriptions of these majors.

Majors in Multi-Age Licensure Programs – Housed in the College of Arts and Sciences, these majors enable students to work toward a pre-kindergarten through grade 12 licensure in areas such as art, French, music, and Spanish. See specific departments for descriptions of these majors.

Department of Inclusive Services and Exceptional Learners

Licenses offered:
* Intervention Specialist Mild/Moderate (K-12)  
* Intervention Specialist Moderate/Intensive (K-12)  
* Intervention Specialist Mild/Moderate (K-12) and Intervention Specialist Moderate/Intensive (K-12) – dual licensure

This program leads to Ohio licensure in the education of exceptional children who need mild to moderate and moderate to intensive levels of educational intervention and support to be successful in academic, functional, and social curriculum content in inclusive public schools. This licensure program trains teacher candidates to work effectively with students from grades K-12. Students in this program receive extensive field-based instruction prior to fully supervised student internship experiences.

Programs

(Licensures unless otherwise indicated.)

Education
Values and Student Learner Outcomes

Accent on the Individual – Candidates in the Dwight Schar College of Education (DSCOE) understand how individuals are shaped by social, economic, and psychological factors as well as gender and other characteristics. They appreciate the diverse talents, cultural understandings, and experiences of all individuals.

Collaboration – Candidates in DSCOE listen carefully to other members of the learning community (faculty members, students, school personnel, and human service professionals). They share information and insights in order to clarify and deepen their understanding to improve society.

Knowledge – Candidates in DSCOE continually pursue new understandings about the world and communicate the humanistic and spiritual value of learning. They draw on this knowledge to create meaningful learning experiences that employ appropriate technology and are differentiated to respond to the wide diversity among students.

Reflection – Candidates in DSCOE use reflection as a tool to find stability in the midst of change. They demonstrate reflection by identifying professional strengths and needs and by planning for professional growth to improve future performance.

Ethics – Candidates in DSCOE assume responsibility to be active in improving their profession. They can articulate a moral framework from which they derive standards of professional behavior in teaching, in research, and leadership studies.

Early Childhood

The mission of the Department of Early Childhood is to prepare Early Childhood and Early Childhood Intervention Specialist pre-service and practicing teachers to positively impact children, schools, and society. We support and implement the five principles of knowledge, collaboration, ethics, Accent on the Individual, and reflections which are advocated by the Dwight Schar College of Education.

Educational Foundations and Instruction

The mission of the Department of Educational Foundations and Instruction is to create an interactive and collegial learning community in which faculty, pre-service and practicing teachers, and other professionals collaborate in an ongoing effort to critically examine and develop an understanding of the origins, influences, and dynamics of education and to seek effective instructional practices.

The undergraduate and graduate programs offered by the Department help each individual develop the personal and professional qualities needed to become an agent of change who positively influences all learners, their educational settings and our society.

The instruction provided by the faculty across the Department challenges and supports all members of the learning community as they explore best practice, raise questions, and learn to solve problems through the use of technological and professional resources, the application of theory and research, continuous assessment, and reflective self-evaluation.

Inclusive Services and Exceptional Learners

The mission of the Department of Inclusive Services and Exceptional Learners is to prepare teachers to develop and maintain collaborative learning communities that support the growth and development of exceptional learners. We are committed to improving the access of all learners to inclusive, equitable, and effective education through our teaching, service, and research.

Accreditation of the College

The teacher education programs have been approved by the Ohio Board of Regents. The Dwight Schar College of Education at Ashland University is accredited by the National Council for Accreditation of Teacher Education (NCATE). NCATE can be contacted through: Council for the Accreditation of Educator Preparation, 2010 Massachusetts Ave., NW, Suite 500, Washington, DC 20036; phone (202) 223-0077. This accreditation covers initial teacher preparation programs and advanced educator preparation programs. NCATE is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other professional school personnel.

These two agencies serve to (a) assure the public that Ashland University offers an educator preparation program that meets national standards of quality, (b) ensure that children and youth are served by well-prepared school personnel, and (c) advance the teaching profession through the improvement of teacher education programs. Licensure requirements are subject to the authority of the Ohio State Department of Education and Ohio law. Course and field experiences may change, subject to requirements approved by The Ohio Board of Regents and/or Ohio law.

National Report Card

Pursuant to Federal Law, the Dwight Schar College of Education is required to report its licensure completion rate. Ninety-five (95) percent of those students completing the Ashland University Teacher Education program attained their licenses for the 2013-2014 academic year.
Field and Clinical Experiences

All education students are required to complete a minimum of 100 clock hours of field and clinical experience prior to student internship and a minimum of 12 weeks of student internship in their field(s) of licensure. The departments have established an excellent working relationship with area schools to provide these experiences. Students enrolled in field experiences and student internship are responsible for providing their own transportation to and from the field site.

Student Honor Society

Kappa Delta Pi, an international honor society in education, honors education majors who have maintained a 3.0 average overall, a 3.5 in education courses, who have completed 30 hours, and who are outstanding in campus leadership.

Policies related to Maintaining Good Standing in the Teacher Education Program:

1. The student must maintain a 2.5 cumulative average overall.
2. The student must maintain a 2.5 GPA in the major field.
3. The student must maintain a 2.5 GPA in the professional education courses.
4. If, at any time, the GPA falls below the 2.5 requirement, the student must meet with his or her faculty advisor and complete the "Student Interview and Action Plan Form." This form is to be signed by the student and faculty advisor and then returned to the department chair in the College of Education who will submit it to the Professional Academic Advisor of the College of Education.
5. A grade of C- or higher is required in each professional education course required for the Licensure Program. Any teacher education student who receives a grade lower than a C- must retake the course. (For ECE and ECIS this also includes FCS 264, 265, 268 and 324.)
6. Students are required to complete the Ohio BCI and FBI background checks for their sophomore field experience or first active field experience at Ashland University. The remaining field experiences or internships will require a current Ohio BCI background check. The FBI check must be completed again for licensure.

Admission to Teacher Education:

1. Complete an "Intent to Enroll in Teacher Education" form for the appropriate department within the College of Education. This application should be completed in EDFN 130;
2. Sign a "Good Moral Character" statement verifying his or her awareness of the law in order to become licensed in Ohio, students must undergo a background check at the Bureau of Criminal Identification and Investigation (BCI) and a background check at the Federal Bureau of Identification and Investigation (FBI). The background checks are required for the sophomore field experience or the student's first active field experience. Subsequently, the BCI must remain current for any additional field experiences or internships;
3. Satisfactorily complete one of the following assessments BEFORE taking the Sophomore Field Experience Course. This requirement must be met by the end of the semester preceding the sophomore field experience for the following courses: EDIS 230IS, EDCI 230SEC, EDCI 236, EDEC 215, EDEC 268).
   a.) Achieve an ACT composite score of at least 21;
   b.) Achieve a SAT combined score of at least 970 on the Mathematics and Critical Reading sections;
   c.) Achieve Praxis 1 scores of 172 on each of the Reading, Writing, and Mathematics tests;
   d.) Achieve COMPASS scores of at least:
      1. 86 on the Reading section
      2. 86 on the Writing section
      3. and one of the following Math sections:
         a. Achieve 70 on the Pre-algebra;
         b. Achieve 49 on the Algebra;
         c. Achieve 40 on the College Algebra
   e.) Achieve Core Academic Skills for Educators test scores of: Reading 156, Writing 162, and Mathematics 150. Preparation material for the Core tests is available at ets.org/praxis. Register for the Core tests at ets.org/praxis.
4. Satisfactorily complete the Sophomore Field Experience course, EDCI, EDIS 230/236 or EDEC 268;
5. Apply for "Admission to Teacher Education" prior to the first junior level methods/field experience course block and comply with the following criteria:
   a.) Competence in academic field(s)—minimum 2.5 GPA;
   b.) Proficiency in written English, reading, and basic math skills;
   c.) Satisfactorily complete assessment requirement (refer to #3);
   d.) Proficiency in oral communication (successful completion of a Core communication course with a grade of C- or higher);
   e.) Meets dispositional guidelines as outlined by the College of Education.
   f.) Sincerity of purpose, good moral character and social adaptability;
   g.) Have a current Ohio BCI Criminal Background Check processed by the Bureau of Criminal Identification and Investigation and had FBI completed from sophomore or previous field experience;
6. At the conclusion of the screening process, the student’s application will be categorized as one of the following: Approved or Rejected by the College of Education.

**Guidelines for Transfer Students**

While all students must meet the same criteria to be admitted to Teacher Education, those transferring in with an associate degree or a significant number of credit hours that places them at the level of a mid-sophomore year or above, are not considered for candidacy into Teacher Education until they have completed 12 semester hours of Ashland University course work and have achieved testing and GPA requirements.

Transfer students may register for 12 credit hours of College of Education course work after having been admitted to Ashland University. Previously or during this first 12 credit hour time frame, transfer students are required to submit evidence of having successfully achieved one of the Teacher Education Admittance test scores indicated in item 3 above. Transfer students are not officially admitted into the Teacher Education program, and may not take field or internship courses, until they have successfully: completed 12 credit hours of course work at Ashland University, achieved a 2.5 GPA for the first 12 credit hours of Ashland University courses, and submitted evidence of having achieved one of the admittance test scores required by the Teacher Education program. STUDENTS NOT MEETING THIS ADMITTANCE REQUIREMENT WILL NOT BE ALLOWED TO CONTINUE COURSE WORK UNTIL THESE REQUIREMENTS ARE ACHIEVED. Exceptions may be made for transfer students who have completed appropriate and equivalent assessment requirements at another institution.

**Admission to Student Teaching/Internship:**

1. Develop a proposed schedule of major courses and student internship. Consult current "Guidelines for Major Teaching Areas" available from your advisor or department chair;
2. Complete all required field-based experiences in culturally, racially and socioeconomically diverse urban and non-urban settings;
3. Receive approval for student internship after fulfilling the following requirements:
   a.) Application for student internship should be submitted to the Field and Clinical Office and should be completed two months prior to course registration.
   b.) Approval of the major department/program team.
   c.) Maintain 2.5 grade point average.
   d.) Have a current Ohio BCI Criminal Background Check processed by the Bureau of Criminal Identification and Investigation and have FBI completed from sophomore or previous field experience.

4. Successfully complete the Teacher Work Sample.
5. Successfully complete the Field Performance Assessment Instrument.
6. Successfully complete other professional activities required by the College of Education.

**Recommendation for Licensure:**

1. Complete the prescribed program (including student internship).
2. Receive passing scores on the Teacher Licensure Examination.
3. Apply for teacher licensure and complete a Criminal Background Check at the time of application for licensure. Return application to the Office of Teacher Testing and Licensure, 113 Schar COE.

**Transfer Students**

Transfer students must meet the same criteria for admission into teacher education. The only exception would be if they have completed appropriate and equivalent assessment requirements. Transfer students may have to take and pass the Core test prior to the first field experience.
Students with Special Needs

It is the student's responsibility to inform the Office of Disability Services and Peer Tutoring if special learning accommodations are required for course and/or field work. Teacher education faculty or administrators are not required to make accommodations unless appropriate documentation is on file with the Office of Disability Services. Personnel from Teacher Education as well as the Office of Disability Services work together closely to ensure fair and reasonable accommodations for the teacher education student.

Degree Requirements

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment may include a professional portfolio and completion of all appropriate interim assessments. See previous pages for detailed description of process.

Bachelor of Science in Education with a comprehensive major in Early Childhood Education

<table>
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<tr>
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<td>3</td>
<td>None</td>
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<td>*EDEC 140 Phonics &amp; Eng. Lang.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EDEC 215 EC/ECIS Foundations</td>
<td>3</td>
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<tr>
<td>*EDEC 262 Found. In Literacy</td>
<td>3</td>
<td>EDEC 262</td>
</tr>
<tr>
<td>*EDEC 323 Trade Books and Tech.</td>
<td>3</td>
<td>EDEC 262 or EDEC 202, EDEC 262</td>
</tr>
<tr>
<td>EDEC 330EC Literacy/Multicultural Field Exp.</td>
<td>2</td>
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</tr>
<tr>
<td>*EDEC 361 El. Lang. Arts Curr./Meth.</td>
<td>3</td>
<td>EDFN 202, EDEC 262</td>
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<tr>
<td>EDEC 363 EC Math - Curr. &amp; Meth.</td>
<td>3</td>
<td>MATH 217</td>
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<tr>
<td>EDEC 369 Assess./Eval. - At-Risk</td>
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<td>PSYC 264</td>
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<td>EDEC 400 Behav. &amp; Social Intervention</td>
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<td>EDEC 215</td>
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<td>EDEC 403 Early Intervl. &amp; Integ.</td>
<td>3</td>
<td>PSYC 264 or EDEC 330SEC</td>
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<td>3</td>
<td>EDEC 330SEC</td>
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<td>EDFN 302, EDEC 262</td>
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<td>EDEC/NUR 448 Bio-Medical Issues</td>
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<td>EDIS 250 or EDEC 215</td>
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<td>EDEC 460 Student Internship</td>
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<td>All Student Internship Req.</td>
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<tr>
<td>EDFN 130 Intro. to Teaching</td>
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<tr>
<td>EDFN 202 Teach. &amp; Learning Process</td>
<td>3</td>
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<td>EDFN 402 Social &amp; Prof. Issues in Ed.</td>
<td>3</td>
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<tr>
<td>PSYC 264 Child Development</td>
<td>3</td>
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<tr>
<td>EDEC 265 Adult-Child Relationships</td>
<td>3</td>
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<td>EDEC 268 Pre-School Methods &amp; Curr.</td>
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<td>EDEC 268F Pre-School Field Exp.</td>
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<td>Related Requirements:</td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
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<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
<td>ENG 101</td>
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Bachelor of Science in Education with a comprehensive major in Early Childhood Intervention Specialist (PreK-3)

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<td>EDFN 402 Social &amp; Prof. Issues in Educ.</td>
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MATH 217 Theory of Arith./Geom. 3 MATH 100 or ACT 18 or SAT 480
MUSIC 150 Princ. of Music Making 3 None
SOC 301 Race/Ethnic/Minority Issues 3 None

*Required for the Ohio 12 hour Reading Core.

Plus Institutional Baccalaureate Degree Requirements.

Note: All courses up to the category Related Requirements are included in the major GPA.

Early Childhood Education Generalist (Grades 4-5)

Endorsement to attach to the Early Childhood license

This endorsement, along with a license in Early Childhood Education, enables the student to teach in grades 4-5. Please see an education advisor or the Director of Academic Advising on the 7th floor of the Library for further details.

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<td>EDCI 235 Methods &amp; Assess. I</td>
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<td>EDFN 130</td>
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<td>EDCI 236 Mid. Grades Field Exp. I</td>
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<tr>
<td>HIST 239 History of Ohio</td>
<td>3</td>
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<td>MATH 218 Geometry for Middle Gr.</td>
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MATH 217 Theory of Arith./Geom. 3 MATH 100 or ACT 18 or SAT 480
MUSIC 150 Princ. of Music Making 3 None
SOC 301 Race/Ethnic/Minority Issues 3 None

*Required for the Ohio 12 hour Reading Core.

Plus Institutional Baccalaureate Degree Requirements.

Note: All courses up to the category Related Requirements are included in the major GPA.
EDIS 230IS Interv. Specialist Field Exp. 2 EDEC 215 Concurrent with EDIS 230IS, 257
EDIS 253 Assistive & Instr. Tech. for IS 3 EDEC 215
EDIS 257 Sens. Motor--IS Mod/Inten. 3 Waived for EC
EDIS 451 Comm.: IS Mod/Int. 3 None
PSYC 264 Child Development 3

Related Requirements:
ENG 101 English Composition I 3 ENG 100 or Equiv.
ENG 102 English Comp. II 3 ENG 101
MATH 217 Theory of Arith./Geom. 3 MATH 100 or ACT 18 or SAT 480

MUSIC 150 Princ. of Music Making 3 None
SOC 301 Race/Ethnic/Minority Issues 3 None

*Required for the Ohio 12 hour Reading Core.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Intervention Specialist:
Mild/Moderate (K-12)
Moderate/Intensive (K-12)
Mild/Moderate & Moderate Intensive (K-12) - dual licenses

Course Number and Title Hrs. Prerequisites
EDCI 232 Intro to Prin. Of Inst. Tech. 3 None
EDCI 312 Teaching Reading with Literature 3 Waived for IS
EDCI 316 21st Cen. Lang. Arts for YA 3 Waived for IS
*EDCI 392 Content Area Reading 3 None
*EDEC 140 Phonics & the Eng. Lang. 3 None
*EDEC 262 Found. In Literacy 3 None
EDEC/NUR 448 Bio-Medical Issues 3 EDIS 250 or EDEC 215
EDCI 235 Middle Grades Methods & Assessment 3 Waived for IS
EDCI 236 Middle Grades Field Exp. 1 Waived for IS
EDFN 130 Intro to Teaching 2 None
EDFN 202 Teach. And Learn Process 3 EDFN 130
EDIS 230IS Wkshp in Teach IS 2 EDFN 130
EDIS 250 Intro to Ed. Interv. 3 None
EDIS 253 Assist & Inst. Tech. 3 Concurrent with EDIS 230IS, 257
EDIS 257 Sensory-Motor 3 EDIS 250
EDIS 330IS Multic. Field Exp. 2 EDIS 230IS, EDCI 236
EDIS 342 Assess. & Teaching 3 EDIS 250, 230IS; EDCI 236
EDIS 343 Career & Daily Living Skills 3 EDIS 250, 230IS; EDCI 236
EDIS 355 Interv & Remed in Math 3 EDIS 250, 230IS; EDCI 236
EDIS 405 Legal, Social & Prof. Issues in IS 3 Senior Status
EDIS 441 Creat. Effective Learn. Envir. 3 EDIS 250, 230IS; EDCI 236
EDIS 442 Comm./Consult./Team. 3 Concurrent with EDIS 230IS, 257
EDIS 451 Comm. Methods 3

One of the following three:
For Moderate/Intensive Licensure Only:
EDIS 464 Stu. Intern. IS Mod/Int 10 All Student Internship Req.
For Mild/Moderate Licensure Only:
EDIS 465 Stu. Intern. IS Mild/Mod. 10 All Student Internship Req.
For Dual Mild/Moderate and Moderate/Intensive Licensure:
EDIS 466 Stu. Intern. IS Mild/Mod/Int 10 All Student Internship Req.

Related Requirements:
EDIS 245 Inter. Persp. On Disability 3 None
One of the following four:
COM/TH 105 Performance Studies (3) None
COM/EDCI 315 International Storytelling 3 Core communications
TH 208 Vocal Expression of Lit 3 None
TH 214 Acting for Non-Majors 3 None

*Required for the Ohio 12 hour Reading Core.

Bachelor of Science in Education with a comprehensive major in Middle Grades (4-9)

This major with its two concentrations fulfills the requirement of comprehensive major.

TEACHER EDUCATION REQUIREMENTS

Course Number and Title Hrs. Prerequisites
EDCI 232 Intro. - Prin. Of Instr. Tech. 3 None
EDCI 234 Middle Grades: Teaching 3 EDFN 130 or concurrent
EDCI 235 Meth. & Assess. I 3 EDFN 130; EDCI 234 or concurrent
EDCI 236 Mid. Grades Field Exp. I 3 EDFN 130; EDCI 234 or concurrent
*EDCI 306 Middle/7-12 Reading Instr. 3 EDEC 140, EDCI 306
*EDCI 312 Teach. Reading with Lit. 3 None
EDCI 336 Mid. Grades Field Exp. II 3 Block I
*EDCI 392 Content Area Reading 3 EDFN 130, EDCI 306
EDCI 467 Student Internship 10 All Student Internship Req.
*EDEC 140 Phonics and the Eng. Lang. 3 None
EDFN 130 Intro. to Teaching 2 None
EDFN 202 Teach. And Learning Process 3  EDFN 130
EDFN 402 Soc. & Prof. Issues in Ed. 3  Senior Status
EDIS 250 Intro. to Ed. Intervent. 3  None

Related Professional Requirements:
Any math/logic Core math 3
PSYC 218 Psych. Of Adolescence 3  None

52 hrs.

*Required for the Ohio 12 hour Reading Core.

Plus two of the following concentrations and the Institutional Baccalaureate Degree Requirements, page 27.

**ENGLISH/LANGUAGE ARTS CONCENTRATION**

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<tbody>
<tr>
<td>EDCI 316 Teach 21st Century Adol.: Eng Lang. Arts</td>
<td>3</td>
<td>EDCI 235</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>ENG 310 Lit. for Adolescents</td>
<td>3</td>
<td>Core Comp II</td>
</tr>
<tr>
<td>Diversity/Global stand (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 309 African Am. Lit. (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>ENG 314 Women’s Lit. (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>ENG 340 Readings in Jewish Lit. (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>American Focus (choose one):</td>
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<tr>
<td>ENG 203 Am. Literature (3)</td>
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<td>Core Comp II</td>
</tr>
<tr>
<td>ENG 333 Am. Studies - 19 cent. (3)</td>
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<td>Core Comp II</td>
</tr>
<tr>
<td>ENG 334 Am. Studies - 20 cent. (3)</td>
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<td>Core Comp II</td>
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<tr>
<td>ENG 350 Contem. Am. Stud. . (3)</td>
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<td>Core Comp II</td>
</tr>
<tr>
<td>Core Comp II Elective Categories:</td>
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<tr>
<td>Choose one:</td>
<td></td>
<td></td>
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<tr>
<td>ENG 417 Eng. Grammar and Usage (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>ENG 418 Hist. of Eng. Lang. (3)</td>
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<td>Core Comp II</td>
</tr>
<tr>
<td>Choose one:</td>
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<tr>
<td>ENG 371 Lit. and Film (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>COM/EDCI 315 Int. Storytelling (3)</td>
<td></td>
<td>Core Comp II</td>
</tr>
<tr>
<td>COM 101 Human Comm. 3</td>
<td></td>
<td>None</td>
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</table>

27 hrs.

**MATH CONCENTRATION**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 317 Teach 21st. Cent Adol.: Math</td>
<td>3</td>
<td>EDCI 235</td>
</tr>
<tr>
<td>MATH 201 Calc. with Appl. I</td>
<td>3</td>
<td>2 yrs. H.S. Alg., 1 yr H.S. Geom.</td>
</tr>
<tr>
<td>MATH 202 Calc. with Appl. II</td>
<td>3</td>
<td>MATH 201</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MATH 217 Theory of Arith. &amp; Geom.</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>MATH 218 Geom. For Middle Gr.</td>
<td>3</td>
<td>MATH 217</td>
</tr>
<tr>
<td>MATH 223 Discrete Math I</td>
<td>3</td>
<td>3 yrs. HS Coll Prep Math</td>
</tr>
</tbody>
</table>

Elective - (choose two): 6-8
CS 121 Computer Prog. I (3) 2 yrs. H.S. Alg., 1 yr H.S. Geom.
MATH 224 Discrete Math II (3) MATH 233
Math 309 History of Math (3) HS Alg, 1 yr HS
PHYS 201 General Physics I (4) MATH 223; 202 or 206

27 hrs.

**SCIENCE CONCENTRATION**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Org. Adapt., Divers.</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>EDCI 318 Teach 21st Century Adol.: AYA Science</td>
<td>3</td>
<td>EDCI 235</td>
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<tr>
<td>Choose one from:</td>
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<tr>
<td>CHEM 103 Gen. Chemistry (4)</td>
<td></td>
<td>H.S. Chem., 3 yrs. H.S. Math</td>
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<tr>
<td>CHEM 250 Lead &amp; Civil. (3)</td>
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<td>None</td>
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<tr>
<td>CHEM 251 Molecular Arch. (3)</td>
<td></td>
<td>None</td>
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<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>PHYS 201 General Physics I (4)</td>
<td></td>
<td>H.S. Alg. &amp; Geom.</td>
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<tr>
<td>Any Natural or Earth Science elective:</td>
<td>3-4</td>
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25-27 hrs.

**SOCIAL STUDIES CONCENTRATION**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>EDCI 319 Teach 21st Cent Adol.: Social Studies</td>
<td>3</td>
<td>EDCI 235</td>
</tr>
<tr>
<td>HIST 112 or 113 Western Civ.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 212 or 213 Am. History</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 239 History of Ohio</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 301 Cultural Geography</td>
<td>3</td>
<td>None</td>
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<tr>
<td>POLSC 102 Democracy in Am.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Non-western hist. - Choose one:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 327 Africa</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 329 Latin America</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 341 Mod. Middle East</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 343 Mod. East Asia</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>REL 107 Exp. World Rel.</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>Economics - Choose one:</td>
<td>3</td>
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<tr>
<td>ECON 101 Market Fund.</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>ECON 201 Econ.: Learn/Instr.</td>
<td>(3)</td>
<td>Ed. Major</td>
</tr>
<tr>
<td>ECON 233 Princ.of Macroeconomics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOC 301 Race/Ethnic/Minority Iss.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

27 hrs.

**Middle Childhood Generalist Endorsement**

This endorsement along with the comprehensive major in middle grades (4-9) enables the student to teach all four subject areas in grades 4-6. Choose the two subject areas not chosen as the concentrations in the major. Please see an education advisor in the College of Education for further information.
ENGLISH/LANGUAGE ARTS

Course Number and Title                  Hrs.   Prerequisites
ENG 417 English Grammar & Usage          3      ENG 102
Choose one from:
   ENG 203 Am. Literature                (3)    Core Comp II
   ENG 425 Am. Literature                (3)    ENG 102
   ENG 426 Am. Literature                (3)    ENG 102
   ENG 427 Am. Literature                (3)    ENG 102

6 hrs.

MATH

Course Number and Title                  Hrs.   Prerequisites
MATH 217 Theory of Arith. & Geom.        3      MATH 100 or ACT 18 or SAT 480
MATH 218 Geom. for Middle Gr             3      MATH 217
Choose one from:
   MATH 208 Elementary Statistics        (3)    MATH 100 or ACT 18 or SAT 480
   MATH 223 Discrete Math I               (3)    3 yrs. HS Coll Prep Math

9 hrs.

SCIENCE

Course Number and Title                  Hrs.   Prerequisites
CHEM 103 General Chemistry I             4      H.S. Chem., 3 yrs. H.S. Math
Choose one course from:
   GEOL 101 Physical Geology              (4)    None
   GEOL 102 Hist. Geology                 (4)    None
   GEOL 210 Nat. Disasters: Severe Weather (not GEOL 209) (3)    None

7-8 hrs.

SOCIAL STUDIES

Course Number and Title                  Hrs.   Prerequisites
HIST 239 History of Ohio                 3      None
HIST 301 Cultural Geography              3      None

6 hrs.

ONLINE TEACHING AND INSTRUCTIONAL TECHNOLOGY MINOR

This 12 credit hour minor is designed for students who are interested in a thorough understanding of online teaching and learning as well as those who would like to obtain a foundation in the design, development, and implementation of technology-based applications (e.g., multimedia, Web-based material development, social networking, and other advanced instructional tools.)

Course Number and Title                  Hrs.   Prerequisites
Required Courses:
EDCI 232 Principles of Instructional Technology 3    None
EDCI 332 Instructional Design & Online Interaction 3    EDCI 232
EDCI 333 Online Assessment & Learning Mgt. Syst. 3    EDCI 332

One course from:
EDIS 250 Intro. To Educ. Intervention (3)    None
JDM 405 Global Impact of Soc. Media (3)    Jr. Status
PSYC 101 General Psychology I (3)    None
PSYC 218 Psychology of Adolescence (3)    None
PSYC 264 Child Development (3)    None

12 hrs.

Education Courses and Descriptions
See Course Descriptions section of catalog.
Chair
Hilary Donatini, Associate Professor of English

Faculty
Deborah Fleming, Professor of English
Stephen Haven, Professor of English
Daniel Lehman, Professor of English, Trustees' Professor
Joseph Mackall, Professor of English
Naomi Saslaw, Professor of English
Russell Weaver, Professor of English
Linda Joyce Brown, Associate Professor of English
Gary Levine, Associate Professor of English
Jayne Waterman, Associate Professor of English
Maura Grady, Assistant Professor of English
Sharleen Mondal, Assistant Professor of English

Degrees Offered
Bachelor of Arts
Bachelor of Science in Education

Mission Statement
The Department of English prepares students to read and think carefully as well as to write clearly, logically, and creatively. It values intellectual rigor and contextual understanding. In the spirit of the Ashland University Mission Statement, the department strives to "prepare students to lead meaningful and productive lives in the world community." The department achieves this goal by broadening and deepening the minds of its students through reading and critical exploration of texts and analytical and creative writing with academic and professional applications.

Student Learning Outcomes
The English major should be able to read well, write clearly, and demonstrate an understanding of the complexity and range of literature. Specifically, students should be able to perform the following tasks:

1. Analyze a text through appropriate close reading.
2. Evaluate a literary and imaginative work within a social or historical context.
3. Use appropriate secondary materials to explore a literary issue or individual text.
4. Read and interpret a text by one or more writers who have defined and shaped the Western literary tradition.
5. Recognize significant differences between literary periods.
6. Use conventions of analysis appropriate to different genres.
7. Read and interpret one or more literary texts as expressions of a culture outside the British and American traditions.
8. Write a sustained paper focusing on a critical problem.
9. Edit critical and expository prose according to the conventions of standard academic English.

Student Honor Society
Spohomores, juniors, and seniors who achieve at least a 3.00 GPA in their English major may apply to join Sigma Tau Delta, an international honor society.

Description of Majors
English – The primary reason to major in English or one of its related programs is the pure love of language and literature itself—a pathway through the beauty, emotion, and universal themes that link writers as diverse as William Shakespeare, John Milton, Emily Dickinson, and Toni Morrison. Majors also learn to think deeply and write carefully about a rich array of texts and topics—skills that prove useful to many occupations. Employers recognize in English majors the ability to analyze problems, sift through evidence, and speak and write coherently. That experience prepares majors for a variety of careers in the arts, education, business, or communications. Graduates of English programs are prepared to learn for a lifetime because careful reading, deep thinking, and effective communication never become obsolete.

Creative Writing – The creative writing major emphasizes the development of creative writing from a grounding in craft and from a study of literary genres and historical periods of literature. The course work features writing workshops and culminates with a senior-level capstone course in which students work toward a polished series of stories or essays, longer narrative, or chapbook of poems.

Statement on Foreign Language
Students interested in pursuing graduate study in literature are encouraged to consider the foreign language GPS track. Any student who completes all three GPS tracks will qualify for a Global Studies minor which combines well with an English major.
### Degree Requirements

Assessment – All English and creative writing majors with sophomore status or higher are required to participate annually in the department's portfolio assessment process.

### Bachelor of Arts with a major in English

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 317 Studies in Shakespeare</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 325 Major Writers Seminar</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>Choose 4 courses, at least 2 starred:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*ENG 401 Lit. of Early England</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>*ENG 404 English Renaissance</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>*ENG 406 17th Cent. English Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>*ENG 408 18th Cent. English Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>*ENG 410 Romantic Movement</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 411 Victorian Period</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 413 Modern Anglophone Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>*ENG 425 American Lit. I</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 426 American Lit. II</td>
<td>3</td>
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<tr>
<td>ENG 427 American Lit. III</td>
<td>3</td>
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<tr>
<td>ENG 428 American Lit. IV</td>
<td>3</td>
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<tr>
<td>One course from 2 of these 3 groups:</td>
<td>6</td>
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<tr>
<td>Genre courses:</td>
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<tr>
<td>ENG 304 Short Story</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 306 The Essay</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 308 The Poem</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 319 Modern Drama</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 322 Modern Poetry</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 324 Modern Novel</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>Topics course:</td>
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<tr>
<td>ENG 338 Themes/Top. In Literature</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>Writing, Grammar, and History courses:</td>
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<tr>
<td>ENG 351 Advanced Comp.</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 417 Eng. Gramm. &amp; Usage</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 418 Hist. Eng. Lang.</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>One course from the following:</td>
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<tr>
<td>ENG 330 African Literature</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 365 Greek Literature</td>
<td>3</td>
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<td>ENG 370 Russian Novel</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>ENG 372 Nietzsche/Values</td>
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<td>Core Comp. II</td>
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<tr>
<td>ENG 300/400 level (not creative writing courses):</td>
<td>9</td>
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</table>

**Related Requirements:**

- ENG 101 English Comp. I 3 ENG 100 or Equiv
- ENG 102 English Comp. II 3 ENG 101

**42 hrs.**

### Bachelor of Arts with a major in Creative Writing

**Course Number and Title**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>Writing courses:</td>
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<tr>
<td>EN 201 Introduction to Creative Writing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EN 301 Writers’ Workshop: Poetry</td>
<td>3</td>
<td>ENG 101, 201</td>
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<tr>
<td>EN 302 Writers’ Wrk: Creat.</td>
<td>3</td>
<td>ENG 101, 201</td>
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<tr>
<td>Screenwriting</td>
<td></td>
<td></td>
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<tr>
<td>EN 405 Problems in Creative Writ.</td>
<td>3</td>
<td>ENG 301, 302</td>
</tr>
<tr>
<td>EN 415 Capstone Course in Creative Writ.</td>
<td>3</td>
<td>ENG 301, 302</td>
</tr>
<tr>
<td>Genre courses (choose 3 courses):</td>
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<tr>
<td>EN 304 Short Story</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>EN 306 The Essay</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 308 The Poem</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 319 Modern Drama</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>EN 322 Modern Poetry</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 324 Modern Novel</td>
<td>3</td>
<td>Core Comp. II</td>
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<tr>
<td>400-level courses (choose 4 courses):</td>
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<tr>
<td>EN 401 Lit. of Early England</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 404 English Renaissance</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 406 17th Cent. Eng. Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 408 18th Cent. Eng. Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 410 Romantic Movement</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 411 Victorian Period</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 413 Modern Anglophone Lit.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 425 American Lit. I</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 426 American Lit. II</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 427 American Lit. III</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>EN 428 American Lit. IV</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>Related requirements:</td>
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</tr>
<tr>
<td>EN 101 English Comp. I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
</tr>
<tr>
<td>EN 102 English Comp. II</td>
<td>3</td>
<td>ENG 101</td>
</tr>
</tbody>
</table>

**45 hrs.**

### Bachelor of Science in Education with a comprehensive major in Integrated Language Arts (Grades 7-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

**Course Number and Title**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ENG 101 English Comp. I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
</tr>
<tr>
<td>ENG 102 English Comp. II</td>
<td>3</td>
<td>ENG 101</td>
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<tr>
<td>EN 201 Intro. to Creative Writing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>2 courses from the following:</td>
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<tr>
<td>Course Number and Title</td>
<td>Hrs.</td>
<td>Prerequisites</td>
</tr>
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<td>-------------------------</td>
<td>------</td>
<td>---------------</td>
</tr>
<tr>
<td>ENG 101 English Comp. I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
</tr>
<tr>
<td>ENG 102 English Comp. II</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>ENG 325 Major Writers Sem.</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>Literature electives, 300 level</td>
<td>6</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>Literature electives, 400 level</td>
<td>9</td>
<td>Core Comp. II</td>
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24 hrs.

**Minor in Creative Writing**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>ENG 101 English Comp. I</td>
<td>3</td>
<td>ENG 100 or Equiv.</td>
</tr>
<tr>
<td>ENG 102 English Comp. II</td>
<td>3</td>
<td>ENG 101</td>
</tr>
<tr>
<td>ENG 201 Intro. To Creative Writing</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ENG 301 Writers' Workshop: Poetry</td>
<td>3</td>
<td>ENG 101, 201</td>
</tr>
<tr>
<td>ENG 302 Writers' Workshop: Creat. Nonf./Fict.</td>
<td>3</td>
<td>ENG 101, 201</td>
</tr>
<tr>
<td>ENG 304 Short Story</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>ENG 308 The Poem</td>
<td>3</td>
<td>Core Comp. II</td>
</tr>
<tr>
<td>Literature Electives, 300/400 level</td>
<td>6</td>
<td>Core Comp. II</td>
</tr>
</tbody>
</table>

27 hrs.

**English Courses and Descriptions**

See Course Descriptions section of catalog.
Environmental Science

Department of Environmental Science
The College of Arts and Sciences

Director
Patricia A. Saunders, Associate Professor of Biology

Faculty
Soren Brauner, Professor of Biology
Nigel Brush, Professor of Geology
Douglas A. Dawson, Professor of Biology/Toxicology
Mason Posner, Professor of Biology
Jeffrey D. Weidenhamer, Professor of Chemistry, Trustees' Professor
Michael R. Hudson, Associate Professor of Geology
Andrew J. Trimble, Associate Professor of Biology/Toxicology
Dolly Crawford, Assistant Professor of Biology
Merrill Tawse, Professional Instructor of Biology

Degrees Offered
Bachelor of Science

Mission
The mission of Ashland University's environmental science program is to deepen understanding of our environment and contribute to the solution of environmental problems through the education of students, research and scholarship, stewardship of several environmental preserves, and community outreach programs.

Student Learning Outcomes
Students majoring or minoring in environmental science will be able to:

1. Demonstrate a breadth of knowledge commensurate with their coursework in the understanding of environmental issues from a natural science perspective;
2. Demonstrate proficiency in understanding and explaining the underlying causes and effects of human impacts, based on fundamental science concepts and basic knowledge of natural systems; and
3. Assess and discuss economic, policy, and ethical aspects of environmental issues as they relate to environmental problems and solutions to these problems.

In addition, environmental science majors will double major in a primary science area (biology, chemistry, geology, or toxicology) and will demonstrate the competencies common to all science majors, summarized briefly below. The details of these competencies are presented in their respective program descriptions and will be assessed separately by the biology, chemistry, geology, and toxicology programs as appropriate to those specific disciplines.

Students majoring in environmental science will be able to:

4. Apply the scientific method to scientific problems in a variety of contexts;
5. Apply fundamental concepts and demonstrate a breadth of knowledge commensurate with course work;
6. Demonstrate practical knowledge and skill in the use and application of scientific equipment and instrumentation, experimental design, sample collection and preparation, and data analysis;
7. Read, understand, summarize and think critically about scholarship and research projects presented in the primary scientific literature; and
8. Communicate scientific findings successfully to colleagues, including data analysis, oral presentations, and written papers.

Facilities and Equipment
Environmental Science courses and labs use the facilities and equipment within the biology, chemistry, geology, and toxicology laboratories described in those areas. Ashland University maintains five environmental preserves that encompass 390 acres near campus that include wetlands, streams, old field, forest, and prairie. The Black Fork Wetlands Environmental Studies Center includes a classroom building, 400-foot boardwalk, and observation tower. A 2500-square foot greenhouse with adjoining lab houses a permanent plant collection and provides space for student and faculty research.

Description of Major
Environmental science students acquire a strong foundation in sciences with a major in a primary area, along with the interdisciplinary foundations of the environmental science major. The double major enables students to understand environmental problems and seek solutions from a scientific perspective while also considering the economic, social, political, and ethical aspects of environmental issues. Environmental science graduates have entered a variety of careers, with many going directly into the workforce and others pursuing graduate studies. AU graduates are working in environmental monitoring, environmental and toxicology labs (both private and governmental), parks and zoos, research laboratory settings, and environmental education.

Degree Requirements
Assessment – All environmental science majors will be assessed during EVS 276 Environmental Science Seminar and EVS 476 Issues in Environmental Science for proficiency in the EVS student learning objectives listed above. In addition, they will be assessed for competency in their primary discipline through the process administered by that department (biology, chemistry, geology, or toxicology).
Bachelor of Science with a comprehensive major in Environmental Science

This double major is designed for students who wish to pursue a career in Environmental Science or Biology, Chemistry, Geology, or Toxicology with an emphasis in Environmental Science. Four alternate tracks are possible.

CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO/EVS 276 Env. Science Sem.</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>BIO/EVS/GEOL 476 Issues in Env. Sci.</td>
<td>3</td>
<td>30 hrs. of Science and Math</td>
</tr>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>BIO 202 Organ., Adapt., &amp; Diversity</td>
<td>4</td>
<td>BIO 201</td>
</tr>
<tr>
<td>CHEM 103 General Chemistry I</td>
<td>4</td>
<td>H.S. Chem; 3 hrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 104 General Chemistry II</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>ECON 101 Market Fundamentals</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>PHIL 280B Environmental Ethics</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28 hrs.</td>
</tr>
</tbody>
</table>

Plus one of the following 4 tracks and plus the Institutional Baccalaureate Degree Requirements.

Note: Students planning to attend a graduate school in environmental science or to work in environmental science applications are encouraged to take EVS 320: Introduction to Geographic Information Systems (GIS) as an elective, although this is not required for the major.

BIOLOGY TRACK

Students must also satisfy the requirements for the B.S. with major in biology.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 328 Vertebrate Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physiology courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 325 Anatomy &amp; Physiology I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 327 Plant Physiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 330 Principles of Toxicology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 425 Adv. Human Physiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 301 Prof. Preparation</td>
<td>1</td>
<td>Bio, tox, env sci maj.; Jr. Status</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 201</td>
</tr>
<tr>
<td>BIO 310 Ecology</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 495 Biology Senior Seminar</td>
<td>1</td>
<td>24 hrs. Bio; Sr. Statu</td>
</tr>
<tr>
<td>CHEM 307/307L Organic Chemistry I</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>2 mathematics courses (calculus and/or statistics recommended)</td>
<td>6-10</td>
<td></td>
</tr>
<tr>
<td>BIO Electives to reach 44 hrs.*</td>
<td>8-14</td>
<td></td>
</tr>
<tr>
<td></td>
<td>44 hrs.</td>
<td></td>
</tr>
</tbody>
</table>

Environmental Science Core 28 hrs

Note: * At least 8 hours at the 300 Level or above; may include up to 3 hours of BIO 493 or no more than 9 hours of BIO 493, BIO 497, and BIO 498

CHEMISTRY TRACK

Students must also satisfy the requirements for the B.S. with major in chemistry.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>3-4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>EVS 320 Intro. To GIS</td>
<td></td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 210 Natural Disasters: Severe Weather</td>
<td></td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 309 Geomorphology</td>
<td></td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 403 Environmental Geochemistry</td>
<td></td>
<td>Geol 101, Chem 104</td>
</tr>
<tr>
<td>Choose at least one course from 2 of these 3 areas:</td>
<td>7-8</td>
<td></td>
</tr>
<tr>
<td>Cellular and molecular courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 340 Microbiology</td>
<td></td>
<td>BIO 201, Chem 104</td>
</tr>
<tr>
<td>BIO 424 Cell Biology</td>
<td></td>
<td>12 hrs. Bio, BIO 303</td>
</tr>
<tr>
<td>BIO 429 Biochemistry</td>
<td></td>
<td>CHEM 307</td>
</tr>
<tr>
<td>Biodiversity courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 205 Zoology</td>
<td></td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 207 Botany</td>
<td></td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 219 Entomology</td>
<td></td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 310 Ecology</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or 201</td>
</tr>
<tr>
<td>CHEM 307/307L Organic Chemistry I</td>
<td></td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 411 Physical Chemistry II</td>
<td></td>
<td>PHYS 206</td>
</tr>
<tr>
<td>CHEM 412 Physical Chemistry II</td>
<td></td>
<td>PHYS 206</td>
</tr>
<tr>
<td>MATH 205 The Calculus I</td>
<td>5</td>
<td>MATH 111 or Equ.</td>
</tr>
<tr>
<td>MATH 206 The Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>MATH 305 The Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 307 Linear Algebra</td>
<td>3</td>
<td>MATH 202, 206, or 224</td>
</tr>
<tr>
<td>PHYS 205 University Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHYS 206 University Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
<tr>
<td>2 additional 400-level CHEM courses</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>52-56 hrs.</td>
<td></td>
</tr>
</tbody>
</table>
Environmental Science core 28 hrs.  
80-84 hrs.

**GEOLOGY TRACK**

Students must also satisfy the requirements for the B.S. with major in geology.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 310 Ecology</td>
<td>3-4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 330 Princ. of Toxicology</td>
<td>3</td>
<td>BIO 202, CHEM 104</td>
</tr>
<tr>
<td>BIO 411 Limnology</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>BIO 412 Marine Biology</td>
<td>4</td>
<td>BIO 202</td>
</tr>
<tr>
<td>CHEM 307 Org. Chemistry</td>
<td>3</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>EVS 320 Intro. To GIS</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 210 Natural Disasters: Severe Weather</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 309 Geomorphology</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 311 Mineralogy</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 312 Igneous &amp; Metam. Petrology</td>
<td>4</td>
<td>GEOL 311</td>
</tr>
<tr>
<td>GEOL 313 Sedimentary Petrology</td>
<td>4</td>
<td>GEOL 102</td>
</tr>
<tr>
<td>GEOL 401 Structural Geology</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 403 Environmental Geochemistry</td>
<td>4</td>
<td>GEOL 101, CHEM 104</td>
</tr>
<tr>
<td>OR GEOL 275 Topics in Regional Geology</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>And GEOL 429 Field Geology</td>
<td>1</td>
<td>GEOL 102, 311</td>
</tr>
<tr>
<td>OR GEOL 497 Lab and Field Res.</td>
<td>3-4</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 201 Calculus with App I</td>
<td>3</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 202 Calculus with App II</td>
<td>3</td>
<td>MATH 202</td>
</tr>
<tr>
<td>OR MATH 205 The Calculus I</td>
<td>5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 206 The Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 201 General Physics I</td>
<td>4</td>
<td>H.S. Alg. &amp; Trig.</td>
</tr>
<tr>
<td>PHYS 202 General Physics II</td>
<td>4</td>
<td>PHYS 201</td>
</tr>
<tr>
<td>OR PHYS 205 Univ. Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHSY 206 Univ. Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
<tr>
<td>47-55 hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Science core</td>
<td>28 hrs.</td>
<td>75-83 hrs.</td>
</tr>
</tbody>
</table>

**TOXICOLOGY TRACK**

Students must also satisfy the requirements for the B.S. with major in toxicology.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 301 Professional Prep.</td>
<td>1</td>
<td>major, Jr. Status</td>
</tr>
<tr>
<td>BIO 303 Genetics</td>
<td>4</td>
<td>BIO 126 or BIO 201</td>
</tr>
<tr>
<td>BIO 330 Principles of Toxicology</td>
<td>3</td>
<td>BIO 201, 202, CHEM 104</td>
</tr>
<tr>
<td>BIO 331 Methods in Toxicology</td>
<td>4</td>
<td>BIO 330</td>
</tr>
<tr>
<td>BIO 332 Toxic Agents</td>
<td>3</td>
<td>BIO 330</td>
</tr>
<tr>
<td>BIO 429 Biochemistry (w/lab)</td>
<td>4</td>
<td>CHEM 307</td>
</tr>
<tr>
<td>BIO 432 Pharmacology &amp; Tox. I</td>
<td>3</td>
<td>16 hrs. BIO, CHEM 307</td>
</tr>
<tr>
<td>BIO 433 Pharmacology &amp; Tox. II</td>
<td>3</td>
<td>16 hrs. BIO, CHEM 307</td>
</tr>
<tr>
<td>BIO 495 Biology Senior Seminar</td>
<td>1</td>
<td>Sr. Status, BIO, TOX, EVS/BIO, Life Sci. Licensure maj.</td>
</tr>
<tr>
<td>BIO Electives (200 Level or above)</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>CHEM 307 Organic Chemistry I</td>
<td>3</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 307L Organic Chemistry Lab</td>
<td>1</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 320 Quantitative Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 420 Instrumental Analysis</td>
<td>4</td>
<td>CHEM 320</td>
</tr>
<tr>
<td>Choose one:</td>
<td>3-5</td>
<td></td>
</tr>
<tr>
<td>MATH 201 Calc. with Applications</td>
<td>3</td>
<td>2 yrs. H.S. alg., 1 yr. H.S. geom.</td>
</tr>
<tr>
<td>OR MATH 205 The Calculus I</td>
<td>5</td>
<td>MATH 111 or equivalent</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>52-54 hrs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Minor in Environmental Science**

This minor is an interdisciplinary science minor designed to provide non-science majors with the science and math background needed to examine and evaluate environmental issues. It includes courses from five disciplines to give students broad environmental training.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 110 Ecology/Human Environ.</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>CHEM 103 General Chemistry</td>
<td>4</td>
<td>H.S. Chem.; 3 yrs. H.S. Math</td>
</tr>
<tr>
<td>OR CHEM 250 Lead and Civ.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR CHEM 251 Molecular Arch.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Choose additional course:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>BIO 111 Wetlands and Waterways</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>BIO 129 Drugs, Poisons, &amp; Pollutants</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHEM 104 Gen. Chemistry</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>CHEM 250 Lead and Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 210 Natural Disasters: Severe Weather</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 211 Discovering the Ice Age</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elementary Stats</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>PHIL 280B Env. Ethics</td>
<td>1</td>
<td>None</td>
</tr>
</tbody>
</table>
EVS 276 Env. Sci. Seminar 1/1 None 20-22 hrs.

Environmental Science Courses and Descriptions
See Course Descriptions section of catalog.
Foreign Languages
Department of Foreign Languages
The College of Arts and Sciences

Chair
Jennifer Rathbun, Associate Professor of Foreign Languages

Faculty
Barbara Schmidt-Rinehart, Professor of Foreign Languages
William Cummins, Associate Professor of Foreign Languages
Richard Gray, Assistant Professor of Foreign Languages

Degrees Offered
Bachelor of Arts
Bachelor of Science in Education

Mission and Goals
The Department of Foreign Languages provides educational opportunities that nurture the development of proficiency in a foreign language and knowledge of other cultures. All foreign language courses are taught in the target language, in context, and make use of authentic materials. The learning experience is enhanced by the use of state-of-the-art technology, meaningful learning activities and assessment within a challenging, comprehensive, and balanced curriculum of language, civilization, and literature.

Student Learning Outcomes
For non-majors meeting the GPS requirement with language study:
1. To demonstrate intermediate-level proficiency in the four skills of the foreign language — speaking, writing, listening, and reading;
2. To demonstrate a basic knowledge and understanding of the culture(s) of the countries represented by the foreign language; and
3. To demonstrate strong reasoning skills.

For majors in French and Spanish:
1. To demonstrate advanced-level proficiency in the four skills of the foreign language — speaking, writing, listening, and reading;
2. To demonstrate a strong knowledge of the foreign language as a system;
3. To demonstrate a broad knowledge of the civilization(s) of the foreign language;
4. To demonstrate a broad knowledge of the literature(s) of the foreign language; and
5. To demonstrate strong reasoning skills through comparison of cultures and analysis of language and literature.

Facilities and Equipment
The Foreign Language department has a digital audio laboratory with 17 computers as well as video, multimedia, and computer-assisted instruction capabilities. Language classrooms are equipped with media stations that link the classroom to the language laboratory and the University computing network.

Student Honor Society
Phi Sigma Iota, Gamma Tau chapter (International Foreign Language Honor Society), honors students who pursue a major or minor in foreign languages or an interdisciplinary major or minor which includes foreign languages as an essential component. Juniors and seniors are eligible for membership who have completed one 300-level course at AU, have an overall GPA of at least 3.3, and a GPA of at least 3.3 in their foreign language courses. Membership is by invitation.

Description of Majors
French and Spanish (B.A.) – Majors study to achieve advanced level proficiency in the language as well as a solid foundation in the civilization and literature of the countries in which that language is spoken. The annual portfolio process allows majors to measure their progress in a supportive environment. The program is enhanced by study abroad opportunities in Quebec and France for French majors and Costa Rica, Spain, and other Spanish-speaking countries for Spanish majors. A B.A. degree allows graduates to pursue careers that require foreign language proficiency or graduate school.

French and Spanish Education – The education program consists of courses in the language, foreign language methodology, and general education. Students study to achieve an advanced level of proficiency in the language as well as a solid foundation in the civilization and literature of the countries in which that language is spoken through coursework at A.U. and abroad. Foreign language education courses and field experience supervision are provided by foreign language specialists. All foreign language education majors are encouraged to study abroad for at least one semester in Quebec or France for French majors and Costa Rica, Spain, or other Spanish-speaking countries for Spanish majors. The B.S.Ed. Leads to licensure to teach the language in all grades Pre-K-12.
Foreign Language Placement

Foreign language placement is based on four factors: 1) years of previous study of the foreign language; 2) ACT score; 3) high school GPA; and 4) a placement test. In order to enroll for a foreign language course at the 100 or 200 level, the student must first receive placement. The online placement tool may be found on the Academic Advising web page.

Degree Requirements

Assessment – All foreign language majors with sophomore status or higher are required to participate annually in the department's portfolio assessment process.

Students taking a foreign language course for a French or Spanish major must earn a "C-" or better to count the course toward the major.

Students pursuing a Bachelor of Science in Education with a major in French or Spanish have minimum oral proficiency requirements associated with field experiences and licensure. In order to complete foreign language education field experiences at the 300 level and above, students must demonstrate the minimum oral proficiency score for that level experience on the Foreign Language Department's oral proficiency test. For licensure, students must demonstrate proficiency in the foreign language at the level set as the standard by the College of Education.

Bachelor of Arts with a major in French

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language - 200 Level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>FREN 251 Intermediate French I</td>
<td>(3)</td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>FREN 252 Intermediate French II</td>
<td>(3)</td>
<td>FREN 251 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>FREN 200 Inter. Int. French Abroad</td>
<td>(6)</td>
<td></td>
</tr>
<tr>
<td>Language - 300 Level</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>FREN 303 French Written Expression</td>
<td>3</td>
<td>FREN 252 or Equivalent</td>
</tr>
<tr>
<td>Six hours from:</td>
<td>6</td>
<td>FREN 252 or Equivalent</td>
</tr>
<tr>
<td>FREN 300 Adv. Int. French Abroad</td>
<td>(6)</td>
<td>FREN 303 or Equivalent</td>
</tr>
<tr>
<td>FREN 304 French Stylistics</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
</tr>
<tr>
<td>FREN 305 French Phonetics</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
</tr>
<tr>
<td>FREN 357 French Oral Expression</td>
<td>(3)</td>
<td>FREN 200, 252 or Equivalent</td>
</tr>
<tr>
<td>Civilization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 301 French Civ. From Lascaux to Versailles</td>
<td>3</td>
<td>FREN 252 or Equivalent</td>
</tr>
<tr>
<td>FREN 302 French Civ. From Revol. To Present</td>
<td>3</td>
<td>FREN 252 or Equivalent</td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 353 French Lit: Marie De France to Voltaire</td>
<td>3</td>
<td>FREN 252 or Equivalent</td>
</tr>
</tbody>
</table>

FREN 354 French Lit: Revolution To Present | 3 | FREN 252 or Equivalent |
One from:                                  | 3 |
   FREN 351 Intro. to French Fiction I      | (3) | FREN 252 or Equivalent |
   FREN 352 Intro. To French Fiction II     | (3) | FREN 252 or Equivalent |
   FREN 470 Seminar on French Speaking World | (2) | FREN 252 or Equivalent |

Portfolio Courses:

FL 275 Portfolio Assessment Cycle I 0 | Soph. Status |
FL 375 Portfolio Assessment Cycle II 0 | FL 275 |
FL 475 Portfolio Assessment Cycle III 0 | 30 hrs. |

Study Abroad

Highly recommended (see Office of Global Education)

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Arts with a major in Spanish

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language - 200 Level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SPAN 271 Inter. Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 272 Inter. Spanish II</td>
<td>(3)</td>
<td>SPAN 271 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 271 Inter. Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(6)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>Language - 300 Level</td>
<td>9</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>SPAN 310 Spanish Grammar &amp; Comp.</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>Six hours from:</td>
<td>6</td>
<td>SPAN 300 Adv. Int. Spanish Abroad</td>
</tr>
<tr>
<td>SPAN 307 Spanish Phonetics</td>
<td>(3)</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>SPAN 377 Conv. Spanish I</td>
<td>(3)</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>SPAN 378 Conv. Spanish II</td>
<td>(3)</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>Civilization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 311 Civilization of Spain</td>
<td>3</td>
<td>SPAN 272</td>
</tr>
<tr>
<td>SPAN 312 Civilization of</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 372 Survey of Spanish Literature</td>
<td>3</td>
<td>SPAN 310</td>
</tr>
<tr>
<td>SPAN 373 Survey of Latin American Lit.</td>
<td>3</td>
<td>SPAN 310</td>
</tr>
<tr>
<td>Advanced-Level Study</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
SPAN 476 Seminar in Hispanic Studies (3) SPAN 311 or 312; SPAN 372 or 373
SPAN 477 Adv. Comp. & Conversation (3) SPAN 310

Portfolio Courses:
FL 275 Portfolio Assessment Cycle I 0 Soph. Status
FL 375 Portfolio Assessment Cycle II 0 FL 275
FL 475 Portfolio Assessment Cycle III 0 FL 375

30 hrs.

Study Abroad
Highly recommended (see Office of Global Education)

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in French (Multi-Age, PreK-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

Course Number and Title               Hrs.           Prerequisites
Language - 100 Level
FREN 151 Elementary French I 3 None
FREN 152 Elementary French II 3 FREN 151 or Equivalent

Language - 200 Level
6
FREN 251 Intermediate French I (3) FREN 152 or Equivalent
FREN 252 Intermediate French II (3) FREN 251 or Equivalent

OR
FREN 200 Inter. Int. French Abroad (6)

Language - 300 Level
FREN 303 French Written Expression 3 FREN 200, 252 or Equivalent
FREN 305 French Phonetics 3 FREN 200, 252 or Equivalent

One from:
FREN 304 French Stylistics (3) FREN 303 or Equivalent
FREN 357 French Oral Expression (3) FREN 200, 252 or Equivalent

Civilization
FREN 301 French Civ. From Lascaux to Versailles 3 FREN 200, 252 or Equivalent
FREN 302 French Civ. From Revolution To Present Literature 3 FREN 200, 252 or Equivalent
FREN 353 French Lit: Marie De France to Voltaire 3 FREN 200, 252 or Equivalent

FREN 354 French Lit: Revolution To Present
One from:
FREN 351 Intro. to French Fiction I (3) FREN 200, 252 or Equivalent
FREN 352 Intro. to French Fiction II (3) FREN 200, 252 or Equivalent
FREN 470 Seminar on French-Speaking World French Speaking World Studies (3) FREN 200, 252 or Equivalent

Electives - French elec. Or St. Abroad 9 Related concentration
EDEC 262 Foundations in Literacy 3 None
FL 380 FL Curriculum & Instruction 3 Foreign Lang. Proficiency
FL 432 Teaching For. Lang. Pre K-12 3

A human development course from Core social sciences
Remaining Education requirements:
EDCI 232 Intro. to Prin. of Instr. Tech. 3 None
EDCI 469 Student Internship PreK-12 10 EDFN 130
EDFN 130 Intro. To Teaching 2 EDFN 202
EDFN 202 Teaching and Learn. Process 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 Sr. Status
EDIS 250 Intro. Educational Intervention 3 EDFN 202

85 hrs.

Portfolio Courses:
FL 275 Portfolio Assessment Cycle I 0 Soph. Status
FL 375 Portfolio Assessment Cycle II 0 FL 275
FL 475 Portfolio Assessment Cycle III 0 FL 375

85 hrs.

Study Abroad
Highly recommended (see Office of Global Education)
Note: Students who begin study at a higher level than 151 must complete the course credit by exam or CLEP (College Level Examination Program) process by the eighth week of the first foreign language course taken at A.U. in order to have the credits appear on their university transcript.

Plus Institutional Baccalaureate Degree Requirements.
Bachelor of Science in Education with a comprehensive major in Spanish (Multi-Age, PreK-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>Language - 100 Level</td>
<td></td>
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<tr>
<td>SPAN 171 Elementary Spanish I</td>
<td>3</td>
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</tr>
<tr>
<td>SPAN 172 Elementary Spanish II</td>
<td>3</td>
<td>SPAN 171 or Equivalent</td>
</tr>
<tr>
<td>Language - 200 Level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SPAN 271 Intermediate Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 272 Inter. Spanish ii</td>
<td>(3)</td>
<td>SPAN 271 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 271 Intermediate Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(6)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>Language - 300 Level</td>
<td>9</td>
<td></td>
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<tr>
<td>SPAN 307 Spanish Phonetics</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>SPAN 310 Spanish Grammar &amp; Comp.</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>One from:</td>
<td>3</td>
<td></td>
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<td>SPAN 377 Conv. Spanish I</td>
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<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>SPAN 378 Conversational Spanish II</td>
<td>(3)</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>Civilization</td>
<td></td>
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<tr>
<td>SPAN 311 Civilization of Spain</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
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<tr>
<td>SPAN 312 Civilization of Latin America</td>
<td>3</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 372 Survey of Spanish Literature</td>
<td>3</td>
<td>SPAN 310</td>
</tr>
<tr>
<td>SPAN 373 Survey of Latin American Lit.</td>
<td>3</td>
<td>SPAN 310</td>
</tr>
<tr>
<td>Advanced-Level Study</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPAN 476 Sem. In Hisp. Studies</td>
<td>(3)</td>
<td>SPAN 311 or 312; 372 or 373</td>
</tr>
<tr>
<td>Electives - Spanish elec. Or</td>
<td></td>
<td></td>
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<tr>
<td>Study Abroad</td>
<td></td>
<td></td>
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<tr>
<td>Related Concentration</td>
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<tr>
<td>EDCI 230PK Grades PreK-12 Field Exp. I</td>
<td>61 hrs.</td>
<td>EDEN 130, SPAN 272</td>
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</tbody>
</table>

Remaining Education requirements: 61 hrs.

EDCI 330SEC AYA (7-12) Field Exp. II 3 EDCI 230, 287; 3 EDCI 232, Intro. To Prin. Of Instr. Tech. 3 None
EDEC 262 Found. in Literacy 3 EDCI 469 Student Internship PreK-12 10 EDFN 130 Intro. To Teaching 2 All Student Internship Req.
FL 380 FL Curric. & Instruction 3 EDFN 202 Teaching and Learn. Process 3 EDFN 402 Social and Prof. Issues 3 Sr. Status
FL 432 Teaching For. Lang. Pre K-12 3 EDIS 250 Intro. Educational Intervention 3 None

A human development course from Core social sciences

FL 275 Portfolio Assessment Cycle I 0 EDFN 200 Inter. Int. French Abroad (6) Soph. Status
FL 375 Portfolio Assessment Cycle II 0 EDFN 402 Teaching For. Lang. Pre K-12 3 FL 275
FL 475 Portfolio Assessment Cycle III 0 FL 375

Study Abroad
Highly recommended:
(see Office of Global Education)

Plus Institutional Baccalaureate Degree Requirements.
NOTE: Students who begin study at a higher level than 171 must complete the course credit by exam or CLEP (College Level Examination Program) process by the eighth week of the first foreign language course taken at A.U. in order to have the credits appear on their university transcript.

Foreign Language minors
Note: Student placement is determined by amount of prior language experience.

Minor in French

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language - 200 Level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>FREN 251 Intermediate French I</td>
<td>(3)</td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>FREN 252 Intermediate French II</td>
<td>(3)</td>
<td>FREN 251 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 200 Inter. Int. French Abroad</td>
<td>(6)</td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>FREN 303 French Written Expression</td>
<td>3</td>
<td>FREN 200, 252 or Equivalent</td>
</tr>
<tr>
<td>2 other French courses 300 level or above</td>
<td>6</td>
<td>FREN 200, 252 or Equivalent</td>
</tr>
</tbody>
</table>
### Minor in Spanish

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language - 200 Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 271 Intermediate Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 272 Intermediate Spanish II</td>
<td>(3)</td>
<td>SPAN 271 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 271 Intermediate Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 200 Inter. Int. Spanish Abroad</td>
<td>(6)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 310 Spanish Grammar and Comp.</td>
<td>(3)</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td>2 other Spanish courses 300 level or above</td>
<td>6</td>
<td>SPAN 200, 272 or Equivalent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 hrs.</td>
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</tbody>
</table>

### Minor in Spanish for PK-8

<table>
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<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 271 Intermediate Spanish I</td>
<td>(3)</td>
<td>SPAN 172 or Equivalent</td>
</tr>
<tr>
<td>SPAN 272 Intermediate Spanish II</td>
<td>(3)</td>
<td>SPAN 271 or Equivalent</td>
</tr>
<tr>
<td>SPAN 300 Intensive Study Abroad</td>
<td>(6)</td>
<td>SPAN 272 or Equivalent</td>
</tr>
<tr>
<td>SPAN 310 Grammar &amp; Composition</td>
<td>(3)</td>
<td>SPAN 272 or Equivalent</td>
</tr>
<tr>
<td>SPAN 381 PK-8 Education Abroad</td>
<td>(2)</td>
<td>SPAN 300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17 hrs.</td>
</tr>
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</table>

### Minor in Global Studies

<table>
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<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>One Language - 200 Level - 6 hours</td>
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<tr>
<td>FREN 251 Intermediate French I</td>
<td>(3)</td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>FREN 252 Intermediate French II</td>
<td>(3)</td>
<td>FREN 251 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 200 Inter. Int. French Abroad</td>
<td>(6)</td>
<td>FREN 152 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER 261 Inter. German I</td>
<td>(3)</td>
<td>GER 162 or Equivalent</td>
</tr>
<tr>
<td>GER 262 Inter. German II</td>
<td>(3)</td>
<td>GER 261 or Equivalent</td>
</tr>
<tr>
<td>OR</td>
<td></td>
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</tr>
<tr>
<td>PORT 241 Inter. Portuguese I</td>
<td>(3)</td>
<td>PORT 142 or Equivalent</td>
</tr>
</tbody>
</table>

### Foreign Language (FL) Courses and Descriptions

- **French (FREN) Courses and Descriptions**
- **German (GER) Courses and Descriptions**
- **Spanish (SPAN) Courses and Descriptions**
- **Latin (LTN) Courses and Descriptions**
- **Portuguese (PORT) Courses and Descriptions**

See Course Descriptions section of catalog.
Geology
Department of Chemistry/Geology/Physics
The College of Arts and Sciences

Chair
Rebecca W. Corbin, Professor of Chemistry

Faculty
Nigel Brush, Professor of Geology
Michael R. Hudson, Associate Professor of Geology

Degrees Offered
Bachelor of Science
Bachelor of Science in Education

Mission and Goals
The geology program strives to provide geology and other science majors with the detailed knowledge and technical skills that will allow them to move successfully to pursue jobs, careers, or advanced degrees in geology, related sciences, or education. The program places heavy emphasis on, faculty/student interactions, which occur especially well during field trips and junior/senior-level independent research projects. Writing and the use of instrumentation are especially significant in upper-level courses, where most laboratory exercises are project-oriented and problem-based.

The geology program seeks to provide non-majors with a workable knowledge of geological concepts and principles in order to gain an understanding of the forces and processes that shape the world around them. Students develop a deeper familiarity with the scientific method by critically examining the physical evidence upon which current geological models of the earth are built.

Student Learning Outcomes
Students in geology and related programs will:
1. Describe and apply the major concepts, experimental findings, and theories of geology;
2. Be proficient with the laboratory techniques and methods of geology;
3. Follow proper safety procedures and regulations for use of chemicals and laboratory equipment;
4. Be competent with basic software including word processing, spreadsheet, and presentation programs;
5. Design appropriate investigations, interpret the results, and make decisions within the context of the discipline;
6. Effectively communicate information both orally and in writing; and
7. Practice good ethical and professional behavior within the context of the discipline.

Facilities and Equipment
Four laboratories and sufficient classroom space meet the needs of the faculty and students in the geology program. The Fran and Warren Rupp Environmental Geochemistry laboratory, shared with the chemistry program, houses an X-ray fluorescence spectrometer and a clean chemical environment for the analysis of liquids and solids. Instruments in the chemistry program's Ingmand laboratory, especially the ion chromatographs and graphite furnace atomic absorption spectrophotometer, are also utilized in the geology curriculum. A research grade polarizing microscope with audio, video, and photographic capabilities is used for mineralogical analyses. These instruments plus extensive mineral, rock, thin section, fossil, and map collections, rock preparation equipment, and an active field trip program give geology students a significant amount of hands-on exposure throughout their curriculum.

Field Studies in Geology
Majors in geology and earth science have excellent opportunities to observe in the field those theories and principles learned in the lecture halls and laboratories at Ashland University. Ashland is located within easy driving distance of many geologically significant areas within the state and in neighboring states. Students are afforded opportunities to visit these areas periodically.

Most graduate schools require the successful completion of a summer geological field camp. Although this is not a requirement for graduation from Ashland University, it is strongly recommended. There are many comprehensive summer field courses that include the fundamentals of field analysis and interpretation. These are conducted by leading universities or in cooperation with other geology departments and allow for the earning of six to eight hours. Scholarships are available for many of these camps.

Student Honor Society
Students who have excelled in geology courses are eligible for membership in the Zeta Lambda chapter of Sigma Gamma Epsilon, a national honor society for the earth sciences. Membership is by invitation, selected from students who have completed 12 hours or more of geology courses with a 3.0 GPA and who have greater than a 2.75 overall GPA.
Description of Majors

Geology - Geology is the study of the earth, the rocks and minerals that compose the earth, and the processes that have shaped and continue to shape our planet. Geology also includes the study of the history of life on earth and how these organisms and the earth have changed over earth's history. Understanding geology provides an important foundation for understanding environmental issues such as groundwater pollution, mitigation of natural hazards, and climate change. Ashland provides its majors in geology with a broad training that emphasizes both hands-on laboratory training as well as extensive field experience. Students have the opportunity to conduct independent research with one of our faculty. A majority of our graduates continue their studies in graduate school, and Ashland graduates have been successful in obtaining a wide range of positions with natural resource and environmental companies and with governmental agencies.

Geoscience Technology and Management - This interdisciplinary major will produce graduates who can enter the geoscience industry as geologists and/or managers. Moreover, majors will be sufficiently prepared for entry into advanced educational programs. Lower-level geology courses present fundamental geologic principles while advanced courses cover topics specific to geologic resources--their origin, location, and responsible development as economic commodities. Business and economics courses in the curriculum provide a foundation in the concepts, theories, procedures, practices, and applications of accounting, management, and law that are essential to operations in geoscience industries.

Degree Requirements

Assessment – The assessment of student learning outcomes for geology and geoscience technology and management majors includes both internal and external assessments in selected courses, typically culminating in the GEOL 497 Laboratory and Field Research or the GEOL 493 Internship course.

Bachelor of Science with a comprehensive major in Geology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 309 Geomorphology</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 311 Mineralogy</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 312 Igne./Metamorph. Petrology</td>
<td>4</td>
<td>GEOL 311</td>
</tr>
<tr>
<td>GEOL 313 Sed. Petrology/Stratigraphy</td>
<td>4</td>
<td>GEOL 102</td>
</tr>
<tr>
<td>GEOL 401 Structural Geology</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>Choose one option:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 275 Topics in Regional Geology</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 429 Field Geology</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 403 Environmental Geochemistry</td>
<td>(4)</td>
<td>GEOL 101, CHEM 104</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 497 Lab/Field Research</td>
<td>(3-4)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 205-206 Univ. Physics</td>
<td>(5/5)</td>
<td>MATH 206</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 205-206 Calculus</td>
<td>(5/5)</td>
<td>MATH 111 or Equiv</td>
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</tbody>
</table>

Additional courses in any of the Natural sciences, MATH, or CS (excluding GEOL 209) 0-7

60 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science with a comprehensive major in Geoscience Technology and Management

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>Science and mathematics courses:</td>
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<tr>
<td>CHEM 103 General Chemistry</td>
<td>4</td>
<td>HS Chem, 3 yrs HS Math</td>
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<tr>
<td>CHEM 104 General Chemistry</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 311 Mineralogy</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 313 Sedimentary Petrology and Stratigraphy</td>
<td>3</td>
<td>GEOL 102</td>
</tr>
<tr>
<td>GEOL 320 Intro to Geographic Information Systems (GIS)</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 401 Structural Geology</td>
<td>4</td>
<td>GEOL 101</td>
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<tr>
<td>Select two:</td>
<td>7-8</td>
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<tr>
<td>GEOL 402 Economic Geology</td>
<td>(3)</td>
<td>GEOL 101, 311</td>
</tr>
<tr>
<td>GEOL 403 Environmental Geochemistry</td>
<td>(4)</td>
<td>GEOL 101, CHEM 104</td>
</tr>
<tr>
<td>GEOL 405 Petroleum Geology</td>
<td>(4)</td>
<td>GEOL 101, 313</td>
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<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
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Business and economics courses:

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<th>Prerequisites</th>
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<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>3</td>
<td>None</td>
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<tr>
<td>ACCT 202 Managerial Accounting</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>MGT 240 Introduction to Management</td>
<td>3</td>
<td>None</td>
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<tr>
<td>MGT 319 Operations Management</td>
<td>3</td>
<td>MGT 240, MATH 208</td>
</tr>
<tr>
<td>MGT 401 Business Law I</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>Select one:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 232 Principles of Microeconomics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Principles of Macroeconomics</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
</table>

Related coursework:
PHIL 280B Environmental Ethics 1-3 None
Required Internship/Work Experience 0-6
BUS 239 Business Work Experience* (0) Soph. Status
BUS 339 Business Internship/Coop. (3-6) Soph. Status
Ed.*
GEOL 493 Internship* (1-4) Soph. Status 64-73 hrs.

Note: BUS 239 and 339 and GEOL 493 require approval by an academic internship advisor.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Integrated Science (Grades 7-12)
See listing in Chemistry area.

Bachelor of Science in Education with a comprehensive major in Earth Science (Grades 7-12)
Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

Bachelor of Science in Education with a comprehensive major in Earth Science (Grades 7-12)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Choose one from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 210 Natural Disasters: Severe Weather</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 213 Asteroids, Comets &amp; Catastrophism</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 275 Topics in Regional Geology</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 309 Geomorphology</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 311 Mineralogy</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>GEOL 312 Ig, &amp; Metam. Petrology</td>
<td>4</td>
<td>GEOL 311</td>
</tr>
<tr>
<td>GEOL 313 Sedimentary Petrology</td>
<td>4</td>
<td>GEOL 102</td>
</tr>
<tr>
<td>CHEM/GEOL/PHYS/PHIL350 Science as a Cultural Force</td>
<td>3</td>
<td>Any Natural Science</td>
</tr>
<tr>
<td>GEOL 429 Field Geology</td>
<td>1-2</td>
<td>GEOL 101, 102, and 311</td>
</tr>
<tr>
<td>CHEM 103-104 Gen. Chem.</td>
<td>4/4</td>
<td>H.S. Chem’ 3 yrs.</td>
</tr>
<tr>
<td>H.S. Math</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 201 General Physics</td>
<td>4</td>
<td>H.S. Alg. &amp; Geom.</td>
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<tr>
<td>Choose one from:</td>
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<td></td>
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<tr>
<td>PHYS 107 Hidden Life of the Stars</td>
<td>(3)</td>
<td>H.S. Alg. &amp; Trig.</td>
</tr>
<tr>
<td>PHYS 320 Origins of the Univ.</td>
<td>(3)</td>
<td>H.S. Alg. &amp; Trig.</td>
</tr>
<tr>
<td>BIO 110 Ecology and the Human Environment</td>
<td>4</td>
<td>None</td>
</tr>
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</table>

51 hrs.

Related concentration:

EDCI 287 Curr./Instr./Assess. 7-12 3 EDFN 202
EDCI 318 Tch. 21st Cent. Adol. Science 3 None
MATH 208 Elementary Statistics 3 MATH 100 or ACT 18 or SAT 480

Choose one from:
PSYC 209 Dev. Psych. (3) PSYC 101
PSYC 218 Psy. Of Adolescence (3) None

Remaining Education requirements:
EDFN 130 Intro to Teaching 2 None
EDCI 230 SEC AYA (7-12) Field Exp. I 1 EDFN 130, 202
EDCI 232 Intro. to Prin. Of Instr. Tech. 3 None
EDCI 330 SEC AYA Field Exp. II 3 EDCI 230, 287; PSYC 209 or 218
EDCI 392 Content Area Reading 3 None
EDCI 461 Student Internship. Gr. 7-12 10 All Student Internship Required EDFN 130 Intro. To Teaching

EDFN 202 Teaching and Learning Process 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 St. Status
EDIS 250 Intro. Educational Intervention 3 None

94 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Minor in Geology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 311 Mineralogy</td>
<td>4</td>
<td>GEOL 101</td>
</tr>
<tr>
<td>Geology electives 200 or above; except</td>
<td>8</td>
<td>GEOL 209</td>
</tr>
</tbody>
</table>

20 hrs.

Geology Courses and Descriptions

See Course Descriptions section of catalog.
History
Department of History/Political Science
The College of Arts and Sciences

Chair
David Foster, Associate Professor of Political Science

Faculty
Duncan R. Jamieson, Professor of History
John E. Moser, Professor of History
Emily Hess, Visiting Assistant Professor of History

Degrees Offered
Bachelor of Arts
Bachelor of Science in Education

Mission
The history program is designed to introduce students to the great individuals, events, and ideas of the past; to broaden and deepen their knowledge and understanding of historical continuity and change; and to help students to interpret the forces that shape human events. By examining the political, cultural, and moral forces that have shaped the modern world, we hope to provide the context by which students can better understand themselves and the world in which they live.

Put another way, we see the study of history as one path to becoming a liberally educated person, one who is in the habit of reading carefully, following arguments closely, writing clearly, and speaking thoughtfully.

Student Learning Outcomes
Students who complete the major in history will:
1. Demonstrate their knowledge in two areas of the discipline–American history and European history; and
2. Demonstrate their capacity for historical reasoning, that is, the capacity to evaluate sources and draw from them appropriate conclusions about the past.

Facilities and Equipment
The main library has a large collection of historical literature, books, government documents, newspapers, magazines, maps, references, and media which complement the study of history and listed history courses. Classrooms are also provided with maps.

Student Honor Society
Students who have excelled in history are eligible for membership in Phi Alpha Theta, Omicron Zeta chapter, an international honor society in history. Membership is by invitation, selected from junior and senior students with a 3.1 or higher GPA and a minimum of 12 hours of history.

Description of Major
History, the study of how human beings have lived in the past, tries to describe the past and account both for continuity and change over time. While every aspect of human life falls within the historian's concern, in this department we focus particularly on political and intellectual history. In our history courses, students will interpret historical figures and events; they will study times and places very different from our own, and they will examine the political, intellectual, and cultural forces that produced and now shape the modern world. The overall aim of these studies is to help students better understand themselves and their world. The major in history does not aim to produce specialists in a particular area, but to enliven students' minds with the capacity to think seriously about human affairs and to consider prudently the important social and political questions they will face as citizens. Our strengths are American and European history (both ancient and modern); we also offer courses on particular areas of the world, most notably Africa, the Middle East, and Modern Asia.

Degree Requirements
Assessment – As part of the department's assessment process, history majors will be asked to complete a test during their freshman year and again during their senior year.

Bachelor of Arts with a major in History

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 112 Western Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 113 Western Civilization</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 212 Am. History thru Civil War</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 213 Am. History after Civil War</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>History elec. (9 hrs. of non-U.S. history)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Majors are required to demonstrate either:</td>
<td></td>
<td></td>
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<tr>
<td>Proficiency in a modern or ancient language through the intermediate level</td>
<td>(0-12)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proficiency in a modern or ancient language through the elementary level and completion of a study or internship abroad*</td>
<td>(0-12)</td>
<td>department chair approval</td>
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</tbody>
</table>

30 hrs.
*Students should consult their academic advisor or the Department Chair for definitions of "elementary" and "intermediate" and for how to demonstrate proficiency in a language not learned at Ashland University. For this major, study or internship abroad must involve at least four weeks of travel outside of the United States, and may be completed through an AU study abroad/away, an independent study course (498), or an elective internship (293, 393, or 493).

**Plus Institutional Baccalaureate Degree Requirements.**

**Bachelor of Science in Education with a comprehensive major in Integrated Social Studies (Grades 7-12)**

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>Broad field courses:</td>
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<tr>
<td>ECON 232 Princ. Of Microeconomics</td>
<td>3</td>
<td>None</td>
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<tr>
<td>ECON 233 Princ. Of Macroeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 101 General Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 218 Psych. Of Adolescence</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOC 111 Principles of Sociology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOC 301 Race, Ethnic, &amp; Minority Issues</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>History/Political Science courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 112 Western Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 113 Western Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 212 Am. History thru Civil War</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 213 Am. History after Civil War</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 261 Ancient Greece</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 264 Ancient Rome</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>Choose two:</td>
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<tr>
<td>HIST 267 Medieval Europe</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 268 Renaiss. &amp; Reformation</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 269 Age of Enlightenment</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 270 Age of Rev./Reaction</td>
<td>(3)</td>
<td>None</td>
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<td>HIST 271 20th Cent. Europe to Pres.</td>
<td>(3)</td>
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<tr>
<td>POLSC 390A Modern Revolutions</td>
<td>(3)</td>
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<td>Choose two:</td>
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<tr>
<td>HIST 351 Colonial America</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 352/POLSC 352 Am. Found.</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 353 The Early Republic</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 354 Nation./Sectional Confl.</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST/POLSC 355 Civil War or</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST/POLSC 375 Lincoln</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 356 Enterprise/Progressivism</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 357 America Age of World War</td>
<td>(3)</td>
<td>None</td>
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<tr>
<td>HIST 358 Postwar Amer.: 1945-1973</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
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**Course Number and Title**

**History**

HIST 359 Contemporary Am. (3) None
POLSC 102 Democracy in Am. (3) None
POLSC 320 Am. Political Thought I (3) None
POLSC 321 Am. Political Thought II (3) None
Choose one: (3)
POLSC 336 Const. Powers (3) POLSC 102
POLSC 337 Const. Rights (3) POLSC 102
Choose one: (3)
HIST 327 Africa (3) None
HIST 329 Latin America (3) None
HIST/POLSC 341 Mod. Middle East (3) None
HIST 343 Mod. East Asia (3) None
POLSC 205 Comp. Politics (3) None
POLSC 231 Int. Relations (3) None
REL 107 Exp. World Rel. (3) None
Choose one: (3)
GEOL 103 Phys. Geog. & Env. (3) None
HIST 301 Cultural Geography (3) None

Education requirements:
EDCI 230SEC AYA Field Exp. I 1 EDFN 130, Concurrent with EDCI*287
EDCI 232 Intro. to Prin. Of Instr. Tech. 3 None
EDCI 287 Curr./Instr./Assess. 7-12 3 EDFN 202
EDCI 330SEC AYA Field Exp. II 3 EDCI 230, 287; PSYC 209 or 218
EDCI 392 Content Area Reading 3 None
EDCI 319 Tch. 21st Cent. Adol. Soc. Studies 3 None
EDCI 461 Student Internship Gr. 7-12 10 All Student Internship Req.
EDFN 130 Intro. to Teaching 2 None
EDFN 202 Teaching and Learn. Process 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 Sr. Status
EDIS 250 Intro. Educational Intervention 3 None
Choose one from: (3)
PSYC 209 Dev. Psych. (3) PSYC 101
PSYC 218 Psyc. Of Adol. (3) None

103 hrs.

**Plus Institutional Baccalaureate Degree Requirements.**

**Minor in History**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>HIST 112 West. Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 113 West. Civilization</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST 212 Am. History thru Civil War</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 213 Am. History after Civil War</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>History electives</td>
<td>12</td>
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18 hrs.
### Minor in Classical Civilization

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>HIST 112 Western Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST/POLSC 201 Topics in Classical Civilization</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 261 Ancient Greece</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIST 264 Ancient Rome and the Rise of Christianity</td>
<td>3</td>
<td>None</td>
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</tbody>
</table>

Electives (choose 3, only one course from Latin may be used):

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ART 256 Western Art I</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>ENG 365 Greek Literature</td>
<td>(3)</td>
<td>Core Comp II</td>
</tr>
<tr>
<td>HIST 321 Warfare: Ancient and Phil.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>*HIST 380 Topics in History</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>HIST/POLSC 498 Ind. Study</td>
<td>(3)</td>
<td>App. Of HIST/POLSC chair</td>
</tr>
<tr>
<td>LTN 110 Elementary Latin I</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>LTN 210 Elementary Latin II</td>
<td>(3)</td>
<td>LTN 110</td>
</tr>
<tr>
<td>LTN 310 Intermediate Latin I</td>
<td>(3)</td>
<td>LTN 210</td>
</tr>
<tr>
<td>PHIL 311 Hist. of Ancient &amp; Medieval Philosophy</td>
<td>(3)</td>
<td>PHIL 204, 205, 208, 215, or 217</td>
</tr>
<tr>
<td>*PHIL 450 Great Philosophers</td>
<td>(3)</td>
<td>PHIL 204, 205, 208, 210, 215 or 217</td>
</tr>
<tr>
<td>POLSC 343 Western Political Thought I (Ancient)</td>
<td>(3)</td>
<td>POLSC 101</td>
</tr>
<tr>
<td>*POLSC 380 Topics in Political Science</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 230 History of Early Christianity</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 301G Topics: The Foot - Steps of Paul</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>TH 418 History of the Theater I</td>
<td>(3)</td>
<td>TH 204</td>
</tr>
</tbody>
</table>

Note: No more than six hours of required or elective courses may count toward both the Classical Civilization minor and another major or minor.

*These topics courses and the topic must be approved by the HIST/POLSC chair for this minor.

### History Courses and Descriptions

See Course Descriptions section of catalog.
Journalism and Digital Media
Department of Journalism and Digital Media
The College of Arts and Sciences

Chair
David McCoy, Assistant Professor of Journalism & Digital Media

Faculty
Matthew Tullis, Associate Professor of Journalism
Steve Suess, Professional Instructor of Digital Media
John Skrada, Operations Manager

Degrees Offered
Bachelor of Arts

Mission Statement
The Journalism and Digital Media program educates students to become ethical, creative, informed media scholars and practitioners. Students will develop their ideas into relevant stories that are built on a foundation of good writing and told using emerging technology. Our faculty encourages a broad-based learning environment balancing theory and practical experience for students to gain a better understanding of the role and current practices of today's media. The department provides a liberal arts education with individualized instruction and hands-on learning enabling students to receive a college degree designed to prepare them for success in today's converging media industry.

Student Learning Outcomes
The Journalism and Digital Media student will:
1. Demonstrate an understanding of the history, theory, and practice of journalism and digital media;
2. Understand and practice written and verbal storytelling;
3. Demonstrate technical proficiency in the production of journalism and digital media using industry standard practices and digital media tools;
4. Apply ethical principles in the analysis and production of journalism and media projects; and
5. Demonstrate critical thinking and an understanding of the power and influence of the media in a digital world.

Laboratory Opportunities
As a part of the Journalism and Digital Media program, students will produce content for print, web, and broadcast. The program publishes The Collegian, a national award-winning weekly newspaper, and www.ashlandcollegian.com, the newspaper's on-line counterpart, from its campus newsroom. Our university radio station broadcasts daily student-produced programming on our 3kw FM (88.9) radio station serving Ashland and surrounding counties. Television programming is broadcast to campus and to the Ashland Community via Armstrong Cable on AUTV-20 and is produced from the television studio and post-production facility in the Center for the Arts. The Journalism and Digital Media program offers a variety of unique, practical, and converged media experiences for future storytellers. Students are encouraged to get involved as freshmen and continue through their senior year. Program alumni have worked at a number of media outlets locally, regionally, and nationally, including NBC New York, Fox Sports Ohio, Sirius Satellite Radio, the Columbus Dispatch, and ESPN.

Description of Majors
Digital Media Production – Production students will be prepared for positions in broadcast and production facilities in the areas of radio production, television production, professional video, media management, and related fields. A range of laboratory experiences in the campus radio station, television station, and video production facility are open to qualified students regardless of class rank. This program instills in students an understanding of the power and influence of the media as well as the social and ethical responsibility it places upon media professionals and consumers.

Digital Media Journalism - Journalism students learn how to gather and create news content for multiple platforms including print, broadcast, and the web. AU is the only small college in Ohio to offer this type of fully converged journalism degree. Students learn a core curriculum of writing, reporting, shooting, and editing through classroom and laboratory experiences. Digital Media Journalism students are prepared for news reporting, sports reporting, editing, and producing jobs at newspapers, websites, television stations, and radio outlets.

Degree Requirements
Assessment – Majors in the department will be expected to participate in programmatic assessment during the process of completing their degree requirements. This process includes, but is not limited to, the submission of writing samples, speeches, and video/audio projects. Faculty will inform the students in their major classes as to which projects will be collected for assessment.
When fulfilling Core aesthetics degree requirements, at least one aesthetics course must be a non Journalism and Digital Media course.

### Bachelor of Arts with a major in Digital Media Journalism

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism and Digital Media Core</td>
<td>27 hrs.</td>
<td></td>
</tr>
<tr>
<td>JDM 103 Intro. To Journalism and Mass Comm.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 133 Video Aesthetics I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 203 Writing for the Media</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 211 Prof. Practice: News Production</td>
<td>1/1/1</td>
<td>None</td>
</tr>
<tr>
<td>JDM 303 Media Law and Ethics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 331 Digital Media Management</td>
<td>3</td>
<td>JDM 103</td>
</tr>
<tr>
<td>JDM 403 Media Effects</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 436 Internship</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
</tbody>
</table>

Choose 2 of the following:
- JDM 211 Prof. Practice: News Production (1) None
- JDM 212 Prof. Practice: Radio Production (1) None
- JDM 213 Prof. Practice: Television Production (1) None
- JDM 214 Prof. Practice: Special Topics (1) None

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDM 245 Fundamentals of Research and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JDM 246 Multimedia Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JDM 307 Advanced Reporting and Editing</td>
<td>3</td>
</tr>
<tr>
<td>JDM 336 Broadcast Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>JDM 407 Narrative Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives: Choose 6 hours from the following: | 6 |
| JDM 211 Prof. Practice: News Production (1) None |
| JDM 212 Prof. Practice: Radio Production (1) None |
| JDM 213 Prof. Practice: Television Production (1) None |
| JDM 214 Prof. Practice: Special Topics (1) None |
| JDM 224 Special Topics in Digital Media (3) JDM 103 |
| JDM 232 Video Aesthetics II (3) JDM 133 |
| JDM 237 Basic Audio (3) JDM 133 |
| JDM 320 Feature Writing (3) JDM 245 |
| JDM 333 Digital Media Technology (3) JDM 232 |
| JDM 335 Broadcast Announcing (3) JDM 133 |
| JDM 342 Sports Journalism (3) JDM 245, 246 |
| JDM 405 The Global Impact of Social Media (3) Jr. Status |
| JDM 498 Independent Study (3) JDM 103 |

### Bachelor of Arts with a major in Digital Media Production

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism and Digital Media Core</td>
<td>27 hrs.</td>
<td></td>
</tr>
<tr>
<td>JDM 103 Intro. To Journalism &amp; Mass Comm.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 133 Video Aesthetics I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 203 Writing for the Media</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 212 Prof. Practice: Radio Production</td>
<td>1/1</td>
<td>None</td>
</tr>
<tr>
<td>JDM 303 Media Law and Ethics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 331 Digital Media Management</td>
<td>3</td>
<td>JDM 103</td>
</tr>
<tr>
<td>JDM 403 Media Effects</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 436 Internship</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
</tbody>
</table>

Choose 2 of the following:
- JDM 211 Prof. Practice: News Production (1) None
- JDM 212 Prof. Practice: Radio Production (1) None
- JDM 213 Prof. Practice: Television Production (1) None
- JDM 214 Prof. Practice: Special Topics (1) None

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDM 232 Video Aesthetics II (3) JDM 133</td>
<td></td>
</tr>
<tr>
<td>JDM 234 Studio Production (3) JDM 133</td>
<td></td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production (3) JDM 133</td>
<td></td>
</tr>
<tr>
<td>JDM 333 Digital Media Technologies (3) JDM 232</td>
<td></td>
</tr>
<tr>
<td>JDM 337 Adv. Audio Production (3) JDM 237</td>
<td></td>
</tr>
</tbody>
</table>

| Electives: Choose 6 hours from the following: | 6 |
| JDM 211 Prof. Practice: News Production (1) None |
| JDM 212 Prof. Practice: Radio Production (1) None |
| JDM 213 Prof. Practice: Television Production (1) None |
| JDM 214 Prof. Practice: Special Topics (1) None |
| JDM 224 Special Topics in JDM (3) JDM 103 |
| JDM 232 Video Production & Program. (3) JDM 237 |
| JDM 333 Broadcast Announcing (3) JDM 133 |
| JDM 405 Global Impact Social Media (3) Jr. Status |

Plus Institutional Degree Requirements.

48 hrs.
Minor in Digital Media Journalism

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>JDM 103 Intro. Journalism/Mass Communication</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 133 Video Aesthetics I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 203 Writing for the Media</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 211 Prof. Practice: News Production 1/1/1</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 245 Fund. of Research &amp; Reporting 3</td>
<td></td>
<td>JDM 103, 203</td>
</tr>
<tr>
<td>JDM 246 Multimedia Reporting</td>
<td>3</td>
<td>JDM 133, 203</td>
</tr>
<tr>
<td>Electives: Choose 6 hours from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>JDM 211 Prof. Practice: News Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 212 Prof. Practice: Radio Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 213 Prof. Practice: Television Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 214 Prof. Practice: Special Topics</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 224 Special Topics in Digital Media</td>
<td>3</td>
<td>JDM 103</td>
</tr>
<tr>
<td>JDM 232 Field Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 303 Media Law and Ethics</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 307 Adv. Reporting and Editing</td>
<td>3</td>
<td>JDM 245, 246</td>
</tr>
<tr>
<td>JDM 320 Feature Writing</td>
<td>3</td>
<td>JDM 245</td>
</tr>
<tr>
<td>JDM 335 Broadcast Announcing</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 336 Broadcast Reporting and Writing</td>
<td>3</td>
<td>JDM 245, 246</td>
</tr>
<tr>
<td>JDM 342 Sports Journalism</td>
<td>3</td>
<td>JDM 245, 246</td>
</tr>
<tr>
<td>JDM 403 Media Effects</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 405 Global Impact Social Media</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 407 Narrative Journalism</td>
<td>3</td>
<td>JDM 307, 336</td>
</tr>
</tbody>
</table>

* Students must take at least one 400 level course to fulfill their elective requirements.

Minor in Digital Media Production

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>JDM 133 Video Aesthetics I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 212 Prof. Practice: Radio Production</td>
<td>1/1</td>
<td>None</td>
</tr>
<tr>
<td>JDM 213 Prof. Practice: Television Production</td>
<td>1/1</td>
<td>None</td>
</tr>
<tr>
<td>JDM 232 Video Aesthetics II</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 234 Studio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 237 Basic Audio Production</td>
<td>3</td>
<td>JDM 133</td>
</tr>
<tr>
<td>JDM 333 Digital Media Tech</td>
<td>3</td>
<td>JDM 232</td>
</tr>
<tr>
<td>Electives: Choose 6 hours from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>JDM 211 Prof. Practice: News Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 212 Prof. Practice: Radio Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 213 Prof. Practice: Television Production</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 214 Prof. Practice: Special Topics</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>JDM 224 Special Topics in Digital Media</td>
<td></td>
<td>JDM 103</td>
</tr>
<tr>
<td>JDM 243 Sports Broadcast Production</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>JDM 311 Script Writing &amp; Directing</td>
<td>3</td>
<td>JDM 133, 234</td>
</tr>
<tr>
<td>JDM 330 Organ. And Corporate Video</td>
<td>3</td>
<td>JDM 232</td>
</tr>
<tr>
<td>JDM 332 Radio Production &amp; Program.</td>
<td>3</td>
<td>JDM 237</td>
</tr>
<tr>
<td>JDM 337 Adv. Audio Production</td>
<td>3</td>
<td>JDM 237</td>
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<td>JDM 403 Media Effects</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 405 Global Impact Social Media</td>
<td>3</td>
<td>Jr. Status</td>
</tr>
<tr>
<td>JDM 412 Adv. Post Prod. Editing</td>
<td>3</td>
<td>JDM 333</td>
</tr>
</tbody>
</table>

** Students must take at least one 400 level course to fulfill their elective requirements.

JDM Courses and Descriptions

See course descriptions.
Mathematics
Department of Mathematics/Computer Science
The College of Arts and Sciences
http://www.ashland.edu/departments/math-computer-science

Chair
Iyad Ajwa, Professor of Computer Science

Faculty
Gordon Swain, Professor of Mathematics
Christopher Swanson, Professor of Mathematics
Darren Wick, Professor of Mathematics

Degrees Offered
Bachelor of Science
Bachelor of Arts
Bachelor of Science in Education

Mission
The mission of the Department of Mathematics and Computer Science is to educate students in the areas of mathematics and computer science. The department is committed to providing students with a broad overview of the central concepts of mathematics, computer science, and logic. The mathematics and computer science curricula are supported by the foundation of a liberal arts education.

Student Learning Outcomes
1. Students will learn and demonstrate the fundamental knowledge of the discipline;
2. Students will have an understanding of and demonstrate competence in logical thought, critical thinking, and problem solving;
3. Students will clearly and accurately express discipline-specific ideas in both written and oral form.

Facilities and Equipment
All classrooms are equipped with networked instructor workstations, including audiovisual and computer projection systems. Programming courses are taught in a computer classroom with student workstations. In addition to the university network and open computer labs, the department maintains a dedicated laboratory for majors. The lab contains a wide variety of computer hardware, running Windows, Linux, Mac OS X, and Solaris operating systems. The computers are equipped with scientific typesetting software, software development tools, compilers, word processors, spreadsheet programs, database programs, web design and programming tools, audio and video editing software, multimedia software, computer algebra systems, statistical and geometric software, and many other applications.

Student Organizations
Any interested student may join the student chapters of the Mathematical Association of America or the Association for Computing Machinery.

Pi Mu Epsilon, Ohio Rho chapter, honors students who have excelled in mathematics and promotes scholarly activity in mathematics among students. Membership is offered to sophomore mathematics majors who have completed three semesters of college mathematics including one semester of calculus, with a 4.0 GPA in their mathematics courses, and who are in the top quarter of their class overall; or juniors and seniors who have completed at least two years of college mathematics including calculus, with a 3.0 GPA in their mathematics courses, and who are in the top 1/3 of their class overall.

Description of Majors
Both the Bachelor of Arts and Bachelor of Science degrees prepare students for jobs in industry such as actuary, operations research analyst, quality control engineer, mathematics consultant, or for further study in graduate school. The analytical and logical abilities developed in these programs prepare students for further study in many other areas, such as business, law, or medicine. Additionally, the Comprehensive Major in Actuarial Science prepares students for the Society of Actuaries' Actuarial Examinations on Probability and Financial Mathematics.

The Bachelor of Science in Education degree, along with teacher licensure, prepares students to teach mathematics in grades 7-12.

Degree Requirements
Assessment – As part of the department assessment process, majors in mathematics, integrated mathematics, and actuarial science will be asked to complete a survey during the spring of their sophomore year and again during their last semester before graduating.

Bachelor of Science with a comprehensive major in Mathematics
This program is designed for those students who wish to pursue a career in science, with heavy emphasis on mathematics.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 205 Calculus I</td>
<td>5</td>
<td>MATH 111 or Equiv</td>
</tr>
<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
</tbody>
</table>
MATHEMATICS

MATH 250 Mathematical Proof 1  MATH 223
MATH 305 Calculus III 3  MATH 206
MATH 307 Linear Algebra 3  MATH 202, 206, or 224
MATH 415 Intro to Mod. Alg. 3  MATH 223, 250, 307
MATH 417 Intro to Analysis 3  MATH 250, 305
MATH 450 Seminar 1  Jr. or Sr. Status
Electives: Choose 3 courses from:
CS 302 Theory of Comp. (3)  MATH 224, 250
MATH 308 Operations Research (3)  MATH 224
MATH 309 History of Math. (3)  MATH 223; 202 or 206
MATH 311 Modern Geometry (3)  MATH 206, 223, 250
MATH 313 Elem. Differential Equ. (3)  MATH 305
MATH 317 Probability (3)  MATH 223, 250; 202 or 206
MATH 319 Number Theory (3)  MATH 206, 223, 250
Addl. courses in chemistry, physics, bio., math, comp. sci. or geology** 20
60 hrs.

Plus Institutional Baccalaureate Degree Requirements.

* Students seeking a double major in computer science and mathematics only need to take MATH 450 once.
**Additional courses may not include MATH 110, 111, 201, 202 (if taken after MATH 205 was successfully completed), or CS 101.

Bachelor of Science with a comprehensive major in Actuarial Science

Assessment – Additional assessment for this major will be to collect grades from students on practice exams and the P and FM exams; and collect grades from students in relevant courses to see if they meet the externally specified standard determined by the Society of Actuaries.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 Financial Accounting</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ACCT 202 Managerial Accounting</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 228 Financial Management</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>FIN 329 Intermed. Financial Mgmt.</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>FIN 330 Principles of Investment</td>
<td>3</td>
<td>FIN 228</td>
</tr>
<tr>
<td>ECON 232 Prin. of Microeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ECON 233 Prin.of Microeconomics</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 205 Calculus I</td>
<td>5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>MATH 223 Discrete Math. I</td>
<td>3</td>
<td>MATH 205, 3 yrs. HS Coll Prep.</td>
</tr>
<tr>
<td>MATH 250 Mathematical Proof</td>
<td>1</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MATH 305 Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
</tbody>
</table>

61 hrs.

Suggested general electives:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 207 Inter. Accounting I</td>
<td>3</td>
<td>ACCT 201</td>
</tr>
<tr>
<td>ACCT 208 Inter. Accounting II</td>
<td>3</td>
<td>ACCT 207</td>
</tr>
<tr>
<td>ECON 334 Money and Banking</td>
<td>3</td>
<td>ECON 233</td>
</tr>
<tr>
<td>FIN 422 Security Analysis</td>
<td>3</td>
<td>FIN 330</td>
</tr>
<tr>
<td>MATH 224 Discrete Math. II</td>
<td>3</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MGT 327 Risk &amp; Insurance</td>
<td>3</td>
<td>ECON 232, 233, MATH 208</td>
</tr>
<tr>
<td>IS 371 Programming for Bus. II</td>
<td>3</td>
<td>IS 370</td>
</tr>
</tbody>
</table>

61 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Arts with a major in Mathematics

This program is designed for those students who wish to pursue a career primarily related to mathematics. This program does require a minor or a dual major.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
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<td>MATH 111 or equiv.</td>
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<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>MATH 250 Mathematical Proof</td>
<td>1</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MATH 305 Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
<tr>
<td>MATH 307 Linear Algebra</td>
<td>3</td>
<td>MATH 202, 206 or 224</td>
</tr>
<tr>
<td>MATH 317 Probability</td>
<td>3</td>
<td>MATH 223, 250; 202 or 206</td>
</tr>
<tr>
<td>MATH 318 Mathematics of Stats.</td>
<td>3</td>
<td>MATH 305, 317</td>
</tr>
<tr>
<td>MATH 320 Financial Mathematics</td>
<td>3</td>
<td>MATH 223, 306</td>
</tr>
<tr>
<td>MATH 341 Applied Regression Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 450 Seminar</td>
<td>1</td>
<td>Jr. or Sr. Status</td>
</tr>
<tr>
<td>IS 221 Information Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 370 Programming for Bus. I</td>
<td>3</td>
<td>IS 221</td>
</tr>
</tbody>
</table>

125
**Plus Institutional Baccalaureate Degree Requirements.**

Note: CS 121-122 is recommended for the major.

* Students seeking a double major in computer science and mathematics only need to take MATH 450 once.

**Bachelor of Science in Education with a comprehensive major in Integrated Mathematics (Grades 7-12)**

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See Education section for a description of the process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 121 Computer Programming I</td>
<td>4</td>
<td>2 yrs. H.S. Alg., 1 yr H.S. Geom.</td>
</tr>
<tr>
<td>MATH 205-206 Calculus I and II</td>
<td>5/5</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 318 Mathematics of Stats.</td>
<td>(3)</td>
<td>MATH 305, 317</td>
</tr>
<tr>
<td>MATH 305 Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
<tr>
<td>MATH 307 Linear Algebra</td>
<td>3</td>
<td>MATH 202, 206 or 224</td>
</tr>
<tr>
<td>MATH 309 History of Math.</td>
<td>3</td>
<td>MATH 223; 202 or 206</td>
</tr>
<tr>
<td>MATH 311 Modern Geometry</td>
<td>3</td>
<td>MATH 206, 223, 250</td>
</tr>
<tr>
<td>MATH 317 Probability</td>
<td>3</td>
<td>MATH 223, 250; 202 or 206</td>
</tr>
<tr>
<td>MATH 319 Number Theory</td>
<td>3</td>
<td>MATH 206, 223, 250</td>
</tr>
<tr>
<td>MATH 415 Intro. to Mod. Alg.</td>
<td>3</td>
<td>MATH 223, 250, 307</td>
</tr>
<tr>
<td>MATH 450 Seminar (take twice)</td>
<td>1/1</td>
<td>Junior or Senior Status</td>
</tr>
<tr>
<td>PHYS 201 General Physics I</td>
<td>4</td>
<td>H.S. Alg. &amp; Geom.</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 205 University Physics I</td>
<td>(5)</td>
<td>MATH 206</td>
</tr>
<tr>
<td>Related Concentration:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDCI 330SEC AYA (7-12) Field Exp. II</td>
<td>3</td>
<td>EDCI 230, 287; PSYC 209 or 218</td>
</tr>
<tr>
<td>EDCI 317 Tch. 21st Cent. Adol. Math</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>2 Core natural sciences courses</td>
<td>6-8</td>
<td>63-66 hrs.</td>
</tr>
</tbody>
</table>

Remaining Education requirements:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 230SEC AYA (7-12) Field Exp. I</td>
<td>1</td>
<td>Concurrent with EDCI 287</td>
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<tr>
<td>EDCI 232 Intro. to Prin. of Instr. Tech.</td>
<td>3</td>
<td>None</td>
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<tr>
<td>EDCI 287 Curr./Instr./Assess. 7-12</td>
<td>3</td>
<td>EDFN 202</td>
</tr>
<tr>
<td>EDCI 392 Content Area Reading</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

**Minor in Mathematics**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201-202 Calc, with Appl. I-II</td>
<td>3/3</td>
<td>2 yrs. H.S. Alg.; 1 yr H.S. Geom.</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 205-206 Calculus I &amp; II</td>
<td>(5/5)</td>
<td>MATH 111 or Equiv.</td>
</tr>
<tr>
<td>MATH 307 Linear Algebra</td>
<td>3</td>
<td>MATH 202, 206 or 224</td>
</tr>
<tr>
<td>MATH 450 Seminar</td>
<td>1</td>
<td>Jr. or Sr. Status</td>
</tr>
<tr>
<td>2 courses from:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CS 302 Theory of Comp.</td>
<td>(3)</td>
<td>MATH 224, 250</td>
</tr>
<tr>
<td>MATH 224 Discrete Math. II</td>
<td>(3)</td>
<td>MATH 223</td>
</tr>
<tr>
<td>MATH 305 Calculus III</td>
<td>(4)</td>
<td>MATH 224</td>
</tr>
<tr>
<td>MATH 308 Operations Res.</td>
<td>(3)</td>
<td>MATH 224</td>
</tr>
<tr>
<td>MATH 309 Hist. of Math.</td>
<td>(3)</td>
<td>MATH 223; 202 or 206</td>
</tr>
<tr>
<td>MATH 311 Mod. Geometry</td>
<td>(3)</td>
<td>MATH 206, 223, 250</td>
</tr>
<tr>
<td>MATH 313 Elem. Differential Equ.</td>
<td>(3)</td>
<td>MATH 305</td>
</tr>
<tr>
<td>MATH 314 Numerical Ana.</td>
<td>(3)</td>
<td>MATH 206</td>
</tr>
<tr>
<td>MATH 317 Probability</td>
<td>(3)</td>
<td>MATH 223, 250; 202 or 206</td>
</tr>
<tr>
<td>MATH 318 Math. Of Statistics</td>
<td>(3)</td>
<td>MATH 305, 317</td>
</tr>
<tr>
<td>MATH 319 Number Theory</td>
<td>(3)</td>
<td>MATH 206, 223, 250</td>
</tr>
<tr>
<td>MATH 415 Intro. to Mod. Algebra</td>
<td>(3)</td>
<td>MATH 223, 250, 307</td>
</tr>
</tbody>
</table>

**Mathematics Courses and Descriptions**

See Course Descriptions section of catalog.
Music
Department of Music
The College of Arts and Sciences

Chair
Thomas Reed, Professor of Music

Faculty
Rowland F. Blackley, Professor of Music
Marla Butke, Professor of Music
Christina Fuhrmann, Professor of Music
Scott Garlock, Professor of Music
Stephanie Sikora, Professor of Music
Alexander Sanchez-Behar, Associate Professor of Music

Degrees Offered
Bachelor of Music
Bachelor of Arts

Mission and Goals
The Department of Music provides students with a thorough education in the performance, theory, composition, pedagogy, history and literature of music within the context of a liberal arts education. The curriculum is designed to prepare the music student for advanced study at the graduate level in any of these areas. The department further provides, along with the College of Education, professional preparation for those who wish to teach music in preschools, elementary schools and secondary schools.

The Department of Music affords opportunities for the general college student to participate in performing ensembles, to study voice or an instrument privately (applied lessons) or in groups, and to enroll in music courses as part of the University Core curriculum. In addition, students who minor in music, major in theatre with a musical theatre emphasis, or major in early childhood education rely on the department to provide fundamental techniques and instruction to integrate music into their chosen discipline.

The faculty members emphasize individual mentoring and monitoring of student progress. They have specialized training and extensive experience in a wide range of musical areas, but share a dedication to training skilled music professionals, and to providing quality musical experiences to all students.

The department recognizes its place as a cultural force in the University community and the Ashland area by sponsoring and producing public performances of its resident faculty and ensembles as well as guest artists. The department demonstrates its strong commitment to the cultural enrichment of the Ashland community at large by providing musical leadership and expertise for the benefit of all.

Student Learning Outcomes
Graduating majors should have a broad base of knowledge, skills and experiences that enable them to be competent musicians, effective teachers and leaders, and lifelong learners. They should be ethical individuals who are active contributors to their professional, artistic and local communities. They should demonstrate a substantial command of these areas of the curriculum, and will demonstrate:
* knowledge of music literature;
* skills in music research;
* aural skills including sight singing and dictation;
* command of music fundamentals;
* skills in part-writing;
* skills in musical analysis;
* functional piano skills appropriate to their program;
* the ability to perform effectively as ensemble members;
* as required, musicianship by the performance of significant solo repertoire at a high level of expression and accuracy;
* as required, advanced skill or comprehension of a special topic through the senior project;
* if receiving the Bachelor of Music in Music Education, appropriate classroom music skills; and
* if receiving the Bachelor of Music in Music Education, appropriate skills and knowledge required of music teachers, including conducting, methodology, classroom management, and planning.

Early childhood education majors or theatre majors with musical theatre emphasis will demonstrate basic knowledge and skills in musical notation, vocal production and performance, piano, solfege and dictation, as required in their curricula. Music minors and general students should, as a result of their music courses, have a heightened understanding of music as an art form and an interest in further musical experiences.

Facilities
The music department is located in the Center for the Arts. The building also includes the 750-seat Hugo Young Theatre for the Performing Arts along with ample classroom, rehearsal and private practice facilities which afford students opportunities to make music in a pleasant atmosphere.

Accreditation
The Ashland University Department of Music is an accredited institutional member of the National Association of Schools of Music.
Private Music Lessons

Private music lessons are open to all students for credit only. At no time will a student be permitted to audit Applied Music Lessons.

Description of Majors

The music education major (Bachelor of Music) is professional preparation for students who desire to become music teachers in preschools, elementary schools, or secondary schools. The student will choose either the instrumental or vocal emphasis.

The music performance major (Bachelor of Music) is for students who desire professional preparation in music performance within the context of a comprehensive major in music.

The music major (Bachelor of Arts) is for students who desire a thorough study of music within a liberal arts program.

Admission Requirements & Procedures for Music

Students wishing to pursue a major or minor in music must meet proficiency requirements as established by the music department. This procedure also applies to students transferring from other institutions. These requirements include:

1. Formal application;
2. Performance audition in student’s principal area of performance (vocal or instrumental) to include appropriate solo repertoire, scales, studies, sight reading;
3. Aural proficiency test;
4. Personal interview with music faculty.

Details concerning requirements, appropriate audition repertoire and materials are available upon request from the Department of Music.

Degree Requirements

Ensemble Requirements - All full-time music majors must enroll in a major ensemble, determined by his/her principal applied area or as approved by the department chair. Music education majors generally are not required to enroll in a major ensemble during the student internship semester. Ensembles recognized by the department as major ensembles are University Band, University Choir and the Ashland Symphony Orchestra.

Assessment

Assessment of student learning outcomes for music majors is conducted through a variety of means: in-class assessments in Music History, Music Theory and Aural Skills, the Music Skills Exam (Music 499) for B.M. students, ensemble performances, and capstone experiences such as junior and senior recitals (Music 303 and 403), senior projects (Music 497), and student internships (EDCI 469). Contact the Department for detailed information regarding these assessments.

Degree Recitals - All students majoring in music education are required to perform a Senior Recital of thirty (30) minutes of music in their applied major area during their last year of study.

All Music Performance majors are required to perform a Senior Recital of forty-five (45) minutes of music during their last year of study and a Junior Recital of thirty (30) minutes of music during a prior year.

All students pursuing the Bachelor of Arts with a major in Music must complete either a Junior Recital of thirty (30) minutes of music or a Senior Project (Mus 497).

Bachelor of Music with a comprehensive major in Music Education, Multi-Age (PreK-12)

Assessment - Assessment in teacher education programs begins with admission to the teacher education program and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See Education for a detailed description of the process.

Course Number and Title                  Hrs.       Prerequisites
MUSIC 102 Recital Attend. (7 sem.)      0          None
MUSIC 204 Gen. Music Methods I          3          MUSIC 271, EDFN 130
MUSIC 211 Class Piano I                 2          Diagnostic Exam
MUSIC 212 Class Piano II                2          MUSIC 211
MUSIC 237 Fund. of Conducting           2          MUSIC 271
MUSIC 271 Mus. Theory/Aural Sk. I      3          Diagnostic Exam
MUSIC 272 Mus. Theory/Aural Sk. II     4          MUSIC 271 and 211 or 241 or 341
MUSIC 320 Music History Survey         3          MUSIC 150, 271, or 272
MUSIC 380 Music History Seminar I      3          MUSIC 150, 271 or 272
MUSIC 381 Music History Seminar II     3          MUSIC 150, 271 or 272
MUSIC 371 Mus. Theory/Aural Sk. III    4          MUSIC 272
MUSIC 372 Mus. Theory/Aural Sk. IV     4          MUSIC 371
MUSIC 403 Senior Recital                0          MUSIC 44- Concurr.
MUSIC 472 Mus. Theory/Aural Sk. V      3          MUSIC 372
MUSIC 499 Music Skills Exams           0          Major
PSYC 218 Psych. of Ado.                 3          None
Instrumental Music Education Major:
MUSIC 010 Univ. Band (7 sem. @ 1 hr. ea.) 7          None
*MUSIC (24-) Secondary Applied (3 sem. @ 1 hr. ea.) 3          None
MUSIC 209 Brass Techniques             2          Music Major
MUSIC 213 String Techniques            2          Music Major
MUSIC 214 Voice Meth./Instru. Maj 1 Music Major
MUSIC 218 Woodwind Tech. 2 Music Major
MUSIC 220 Percussion Tech. 1 Music Major
MUSIC 375Instrum. Cond. 3 MUSIC 237
MUSIC 395 Curr. & Meth. - Instrum. 3 MUSIC 271, EDCI 230PK
MUSIC 477 Instrum. Arranging 1 MUSIC 372

OR

Vocal Music Education Major:
MUSIC 022 Univ. Choir (7 sem. @ 1 hr. ea.) (7) Audition
**MUSIC 240 Applied Voice (3) None
OR
**MUSIC 241 Applied Piano (3) None
MUSIC 216 Vocal Diction I (2) MUSIC 330 or 340
MUSIC 270 Intro. to Instrum. Music (2) MUSIC 271
MUSIC 325 Gen. Music Methods II (2) MUSIC 204, 271, EDFN 130
MUSIC 348 Keyboard Harmony (2) MUSIC 271; 241 or 341
MUSIC 376 Choral Conducting (3) MUSIC 237
MUSIC 396 Curr. & Meth. - Choral (3) MUSIC 271, EDCI 230PK
MUSIC 478 Choral Arranging (1) MUSIC 372

Remaining Education Requirements:
EDCI 230PK Grades PreK-12 Field Exp. I 1 EDFN 130, MUSIC 204
EDCI 330PK Grades PreK-12 Field Exp. II 3 EDCI 230; PSYC 102 hrs.
EDCI 392 Content Area Reading 3 None
EDCI 469 Student Internship PreK-12 10 All Student Internship Req.
EDFN 130 Intro. to Teaching 2 None
EDFN 202 Teaching & Learning Proc. 3 EDFN 130
EDFN 402 Social and Prof. Issues 3 None
EDIS 250 Intro. Ed. Interven. 3 None
Music Electives** 3

Plus Institutional Baccalaureate Degree Requirements.
* Choose 3 hours of private applied secondary instruments or additional piano. 1 hour must be a wind, percussion or string instrument from a different family than the principal applied area selected from MUSIC 243-247 only.
** Vocal music education majors with a principal applied area of voice select 241; those with a principal applied area of piano or organ select 240.

Bachelor of Music with a comprehensive major in Performance
Course Number and Title Hrs. Prerequisites
MUSIC 211 Piano Class I 2 Diagnostic Exam
MUSIC 212 Piano Class II 2 MUSIC 211
MUSIC 271 Music Theory I 3 Diagnostic Exam
MUSIC 272 Music Theory II 4 MUSIC 271
MUSIC 371 Music Theory III 4 MUSIC 272
MUSIC 372 Music Theory IV 4 MUSIC 371
MUSIC 472 Music Theory V 3 MUSIC 372
MUSIC 320 Music Hist. Survey 3 MUSIC 150, 271 or 272
MUSIC 380 Music Hist. Sem. I 3 MUSIC 150, 271 or 272
MUSIC 381 Music Hist. Sem. II 3 MUSIC 150, 271 or 272
MUSIC 237 Fund. Of Conducting 2 MUSIC 271
MUSIC 375 Instrumental Cond. 3 MUSIC 237
OR
MUSIC 376 Choral Conducting (3) MUSIC 237
MUSIC 24- Secondary Applied* (3 sem. @ 1 hr. ea.)
\*voice majors must take Music 241 Piano
MUSIC 33- Principal Applied (4 sem. @ 2 hrs. ea.)
MUSIC 45- Principal Applied (4 sem. @ 2 hrs. ea.)
MUSIC 010 or 022 Major Ens. 8 Audition
MUSIC 0xx Small Ens.** (6 sem. @ 0.5 hr. ea.)
MUSIC 303 Junior Recital 0 Concurrent with 44x or 45x
MUSIC 403 Senior Recital 0 Concurrent with 44x or 45x
MUSIC 102 Recital Attendance (8 semesters) 0 None
MUSIC 499 Music Skills Exams 0 Major
MUSIC 479 Seminar in Repert./Ped. 2 MUSIC 45x
MUSIC 226 Music in World Cultures 3 None
MUSIC 216-217 Vocal Diction I-II (voice majors only)
AND
Music Electives** 3
OR
Music Electives** 3 Audition

** Select from:
MUSIC 209 Brass Techniques (2) Major
MUSIC 213 String Techniques (2) Major
MUSIC 218 Woodwind Techniques (2) Major
MUSIC 220 Percussion Techniques (1) Major
MUSIC 205 Composition I (2) MUSIC 272
MUSIC 252 Music and Drama (3) None
MUSIC 305 Composition II (2) MUSIC 205
MUSIC 348 Keybd. Harmony (2) MUSIC 271, 241 or 341
MUSIC 405 Advanced Composition (2) MUSIC 305
MUSIC 477 Instrumental Arranging (1) MUSIC 372
MUSIC 478 Choral Arranging (1) MUSIC 372
MUSIC 497 Senior Project (2) MUSIC 471
TH 321 Theatre & Arts Management (3) None

28-90 hrs.
Majors are required to demonstrate proficiency in a modern language through the intermediate level.

**Plus Institutional Baccalaureate Degree Requirements.**

### Bachelor of Arts with a major in Music
(An outside minor is required.)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 211 Class Piano I</td>
<td>2</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>MUSIC 212 Class Piano II</td>
<td>2</td>
<td>MUSIC 211</td>
</tr>
<tr>
<td>MUSIC 271 Mus. Theory/Aural Sk. I</td>
<td>3</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>MUSIC 272 Mus. Theory/Aural Sk. II</td>
<td>4</td>
<td>MUSIC 271</td>
</tr>
<tr>
<td>MUSIC 371 Mus. Theory/Aural Sk. III</td>
<td>4</td>
<td>MUSIC 272</td>
</tr>
<tr>
<td>MUSIC 372 Mus. Theory/Aural Sk. IV</td>
<td>4</td>
<td>MUSIC 371</td>
</tr>
<tr>
<td>MUSIC 320 Music History Survey</td>
<td>3</td>
<td>MUSIC 150 or 271, or 272</td>
</tr>
<tr>
<td>MUSIC 380 Music History Seminar I</td>
<td>3</td>
<td>MUSIC 150 or 271, or 272</td>
</tr>
<tr>
<td>MUSIC 381 Music History Seminar II</td>
<td>3</td>
<td>MUSIC 150 or 271, or 272</td>
</tr>
<tr>
<td>MUSIC (34-) Principal Applied (4 sem. @1 hr. ea.)</td>
<td>4</td>
<td>Major</td>
</tr>
<tr>
<td>MUSIC 010 or 022*, Ensemble</td>
<td>4</td>
<td>Audition</td>
</tr>
<tr>
<td>MUSIC 102, Recital Attendance (8 semesters)</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>MUSIC 499 Music Skills Exams</td>
<td>0</td>
<td>Major</td>
</tr>
<tr>
<td>Art or Theater Elective</td>
<td>3</td>
<td>MUSIC 471</td>
</tr>
<tr>
<td>MUSIC 497 Senior Project</td>
<td>2</td>
<td>MUSIC 44x or 45x</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 303, Junior Recital</td>
<td>0</td>
<td>MUSIC 44x or 45x</td>
</tr>
<tr>
<td>Music Electives**</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Select from 200-level or higher music courses, except Music 130, 150 and 225 may not be used. Up to 2 hours of ensemble courses may be used.**

**TOTAL** 48-50 hrs.

*- or other ensemble as assigned by Dept.

**Music Minor**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 010 University Band</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 022 University Choir</td>
<td>(4)</td>
<td>Audition</td>
</tr>
<tr>
<td>MUSIC 211 Class Piano I</td>
<td>2</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>MUSIC 212 Class Piano II</td>
<td>2</td>
<td>MUSIC 211</td>
</tr>
<tr>
<td>MUSIC (14-) Principal Applied</td>
<td>5</td>
<td>Minor Stat.</td>
</tr>
<tr>
<td>MUSIC 271 Mus. Theory/Aural Sk. I</td>
<td>3</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>Music electives*</td>
<td>2</td>
<td>18 hrs.</td>
</tr>
</tbody>
</table>

*MUSIC 130, 150, and 225 may not be used.

### Applied Music Minor

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 010 University Band</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 022 University Choir</td>
<td>(4)</td>
<td>Audition</td>
</tr>
<tr>
<td>MUSIC 211 Class Piano I</td>
<td>2</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>MUSIC 212 Class Piano II</td>
<td>2</td>
<td>MUSIC 211</td>
</tr>
<tr>
<td>MUSIC (14-) Principal Applied</td>
<td>5</td>
<td>Minor Stat.</td>
</tr>
<tr>
<td>MUSIC 271 Mus. Theory/Aural Sk. I</td>
<td>3</td>
<td>Diagnostic Exam</td>
</tr>
<tr>
<td>Music electives*</td>
<td>2</td>
<td>18 hrs.</td>
</tr>
</tbody>
</table>

*MUSIC 130, 150, and 225 may not be used.

### Music Courses and Descriptions

See Course Descriptions section of catalog.
Nursing and Health Sciences
Health Sciences Department and
Nursing Department
Dwight Schar College of Nursing and Health Sciences

Dean
Faye Grund

Directors
Accelerated/Advanced Entry/Traditional Nursing: Juanita Reese Kline
Athletic Training: Dennis Gruber
Dietetics: David Vanata
Doctor of Nursing Practice: Latina Brooks
Exercise Science: Randall Gearhart
Gerontology: Karen Estridge
RN to BSN Nursing: Jacqueline Owens
Simulation Center: Lisa Young

Coordinators
Athletic Training: Erin Diebler
Lifetime Wellness: Laura Kruger
Exercise Science: Beth Patton

Faculty and Clinical Staff

HEALTH SCIENCES
Chair: Dennis Gruber, Clinical Assistant Professor
Randall Gearhart, Professor
Deborah Sullivan, Professor
Glen Fincher Associate Professor
Beth Patton, Associate Professor
David Vanata, Associate Professor
Laura Kruger, Clinical Assistant Professor
Denise Reed, Clinical Assistant Professor
Erin Diebler, Professional Instructor

NURSING
Chair: Juanita Reese Kline, Associate Professor
Latina Brooks, Associate Professor
Jacqueline Owens, Associate Professor
Robin Brian, Assistant Professor
Karen Estridge, Assistant Professor
Christine Heid, Assistant Professor
Lisa Young, Assistant Professor
Jeri Berryman, Clinical Assistant Professor
Patricia Clayburn, Clinical Assistant Professor
Jada Craze, Clinical Assistant Professor
Brenda DeHaan, Clinical Assistant Professor
Laura Gilmore, Clinical Assistant Professor
Deana Kehres, Clinical Assistant Professor
Val Kuenkele, Clinical Assistant Professor
Billie Maglott, Clinical Assistant Professor
Carol Reece, Clinical Assistant Professor
Sharon See, Clinical Assistant Professor
Penny Snyder Clinical Assistant Professor
Melessa Starnes Damoff, Clinical Assistant Professor
Cherilyn Sudar, Clinical Assistant Professor
Nancy Thorne, Clinical Assistant Professor
Kimberly Stanislo, Clinical Assistant Professor
Ashley Christman, Clinical Staff
Tracy Crum, Clinical Staff
Kendra Bise, Clinical Staff
Emily Smith, Clinical Staff
Anne Wince, Clinical Staff

Degrees Offered
Bachelor of Science in Athletic Training
Bachelor of Science in Nursing
Bachelor of Science in Nursing

Majors
Athletic Training
Dietetics
Exercise Science
Nursing

Minor
Gerontology

Certification
Gerontology
College Mission
The mission of the College of Nursing and Health Sciences is to educate individuals to become health care professionals committed to health related practice, leadership, and service. The programs provide undergraduate and graduate education in health science professions. Our guiding values are integrity, caring, accountability, respect, and excellence. Our vision is to be the premier College of Nursing and Health Sciences in the Midwest, educating graduates to serve a global and diverse society.

College Facilities
The Health Sciences Department is located in the Arthur L. and Maxine Sheets Rybolt Recreation and Sport Sciences Center. The state-of-the-art center houses six fully equipped multi-media classrooms, a 4,000 square foot athletic training room, the 1,600 square foot Messerly Human Performance Laboratory, as well as a student computer lab and reference library. The Recreation Center contains a walking/running track, fitness center, golf simulator, racquetball court, climbing wall, billiard lounge, natatorium, two basketball courts, and a multi-purpose court.

Students enrolled in the nursing program will take classes on the AU main campus, in classroom and laboratory/simulation spaces located at 1020 S. Trimble Road, Mansfield, and in the on-line environment. Campus housing is available on both the Ashland University main campus and the Mansfield campus. Simulated learning experiences are a vital part of student nurses education. The simulation center on the Mansfield campus includes a health foundations laboratory, family health laboratory, adult health laboratory, complex health laboratory, intensive care/advanced care laboratories, community health laboratory, and examination rooms. High and mid-level fidelity simulators are computerized and interactive. They may be programmed to give realistic patient responses and outcomes. Simulation is used to teach the basics of nursing care, nursing skills such as intravenous, Foley catheter, and nasogastric insertions. Students participate in complex patient scenarios such as cardiac arrest. Simulation is not a replacement for clinical, but supplements clinical experiences, enhancing student outcomes.

ATHLETIC TRAINING PROGRAM

Mission
The Athletic Training (AT) program provides a nurturing and supportive educational experience for AT majors. Through the integration of the missions of the University and the Health Sciences Department, the AT major prepares the individual for a career in athletic training. The program integrates the competencies and proficiencies outlined by the Education Council through didactic and clinical experiences in order to prepare the student to be a practicing athletic trainer. AT students will conduct themselves with the highest integrity by observing and practicing the Code of Ethics as outlined by the National Athletic Trainers Association.

Accreditation
The AU Athletic Training Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Program Description
Athletic trainers work with team physicians, physical therapists, exercise physiologists, and other health care providers in the care, prevention, and rehabilitation of illness and injuries related to sport and exercise. A bachelor’s of science degree in athletic training will also prepare you for graduate degrees and entry-level practice in athletic training.

Goals and Student Learning Outcomes
The Athletic Training Goals and Student Learning Outcomes can be found at: www.ashland.edu/conhs/majors/athletic-training

AT Program Selective Admission Requirements
Entrance into the Athletic Training program is by selective admission. A student is permitted to apply for admission into the program during the second semester of the freshman year, or during the sophomore year. The formal application process must be completed by the second Monday of February. The formal application process requires that each student complete the following criteria:

1. Prerequisite coursework – Students must attain a “C” or better grade in the following courses: ATR 165, ATR 166, ATR167, and ATR 170.
2. Completed application – Each student must submit a completed application which includes a brief essay on why they have selected athletic training as their intended profession. The form may be found on the AU athletic training website.
3. Three letters of recommendation – A professor/instructor at Ashland University must complete one letter. The professor should elaborate on the student’s academic ability. The other two letters should address the individuals moral character and/or academic abilities.
4. Cumulative grade point average of 2.5.
5. Interview with the Athletic Training Selection Committee.

7. After the student has been selected into the program, he/she must complete formal training in blood-borne pathogens which includes obtaining or declining the Hepatitis B vaccination. Students will also need to purchase liability insurance, pass a physical examination and provide a copy of his/her immunizations. The physical exam must be completed by the AU Health Center and is at a cost of $30.

**AT Program Exit Criteria**

To graduate with the Athletic Training major, the student must:

1. Successfully complete all university requirements.
2. Successfully complete all required Athletic Training Program courses and requirements.
3. Pass all AT courses with a “C” or better. Any student receiving a “C-” or below must retake the course. Program retention and progression information can be found at: www.ashland.edu/conhs/majors/athletic-training
4. Have a minimum cumulative GPA of 2.5.
5. Have a completed and passing (73% or better) Athletic Training portfolio.

**Clinical Field Experiences**

Program standards require students to complete 6 field experience courses over a period of at least two years, under the direct supervision of an approved Preceptor in a program-approved clinical setting. The clinical experiences will be gained through on and off campus work. The AT student is required to spend at least one semester off campus. This may require driving to the clinical site. There is no reimbursement for gas or automobile expenses. The Program Director and/or Clinical Coordinator will attempt to accommodate the student and minimize the out-of-pocket expenses. All field experience classes require a $60 fee.

**Degree Requirements (Athletic Training)**

**Bachelor of Science in Athletic Training**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 165 Principles of AT</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ATR 166 CPR/AED</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>ATR 167 Basic Skills in AT</td>
<td>1</td>
<td>ATR 165 or Concur</td>
</tr>
<tr>
<td>ATR 170 Functional and Palpation Anatomy</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>ATR 270 AT Clinical Field Experience I</td>
<td>2</td>
<td>Formal Admission to AT</td>
</tr>
<tr>
<td>ATR 271 AT Clinical Field Experience II</td>
<td>2</td>
<td>ATR 270</td>
</tr>
<tr>
<td>ATR 272 Injury Recog./Mgmt. - Lower</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ATR 273 Clinical Experiences in AT I</td>
<td>1</td>
<td>ATR 167, 272 Concur</td>
</tr>
<tr>
<td>ATR 274 Injury Recog./Mgmt. - Upper</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>ATR 275 Clinical Experiences in AT II</td>
<td>1</td>
<td>ATR 167, 274 Concur</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 279 Therapeutic Interventions I</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>ATR 354 Medical/Orthoped. Aspects in AT</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>ATR 371 Therapeutic Interventions II</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>ATR 373 AT Clinical Field Experience</td>
<td>2</td>
<td>ATR 375</td>
</tr>
<tr>
<td>ATR 376 Therapeutic Interventions III</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>ATR 420 Organization &amp; Admin. In AT</td>
<td>3</td>
<td>ATR 165</td>
</tr>
<tr>
<td>ATR 471 AT Clinical Field Experience V</td>
<td>2</td>
<td>ATR 165</td>
</tr>
<tr>
<td>ATR 472 AT Clinical Field Experience</td>
<td>2</td>
<td>ATR 471</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 222-223 Anatomy &amp; Phys for Nursing I-II</td>
<td>4/4</td>
<td>Nursing or AT major</td>
</tr>
<tr>
<td>EXS 308 Kinesiology</td>
<td>3</td>
<td>ATR 165 or BIO 125 or EXS 190</td>
</tr>
<tr>
<td>EXS 309 Physiology of Exercise</td>
<td>3</td>
<td>ATR 165 or BIO 125 or EXS 190</td>
</tr>
<tr>
<td>EXS 474 Sport Nutr./Substance Abuse</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>PSYC 101 General Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HS 360 Research in Health Sciences</td>
<td>3</td>
<td>MATH 208; ATR 165 or EXS 309 or DIET 320</td>
</tr>
<tr>
<td>SMG 404 Psych. Of Sport and Coaching</td>
<td>3</td>
<td>ATR 165</td>
</tr>
</tbody>
</table>

**Plus Institutional Baccalaureate Degree Requirements.**

**Courses and Descriptions**

See Course Descriptions section of catalog.

**DIETETICS PROGRAM**

**Mission**

The Ashland University Didactic Program in Dietetics (AU DP) mission is to provide the foundation knowledge, skills, and experiences necessary to encourage the development of ethical behavior, intellectual growth, critical thought, communication, and problem solving skills, in preparation for entry into post-baccalaureate dietetics internships, professional employment, and/or graduate school, as well as developing students to become contributing members of the scientific/professional community.

**Accreditation**

The AU DP is fully accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-0040, extension 5400, www.eatright.org
Program Description

The Didactic Program in Dietetics (DP) is designed for students who wish to become Registered Dietitians (R.D.) and practitioners in clinical, community, food industry, and foodservice areas of nutrition. Registered dietitians are employed by hospitals, community agencies, and various government or private organizations. Completion of degree requirements will result in the student being awarded a Verification Statement of completion of the AU Didactic Program in Dietetics. Following completion of the program, the completion of an accredited dietetic internship program is required before students are eligible to take the registration examination and obtain the Registered Dietitian (R.D.) credential.

Goals and Objectives

To assess and guide the AU DP, several goals and objectives have been developed. These include the following three program goals and objectives:

Program Goal 1:

The AU DP will prepare, assist, and encourage program graduates to seek admittance into an ACEND accredited internship program, professional employment, graduate school or obtain professional credentialing.

* 1.1 Over a five-year period, at least 60% of AU DP graduates will apply to a supervised practice program within 12 months of graduation.
* 1.2 Over a 5-year period, at least 50% of those applying to a supervised practice program in the academic year they complete the program will be accepted.
* 1.3 Over a 5-year period, at least 50% of program graduates who sought employment in dietetics will be employed within 12 months of program completion.
* 1.4 Over a 5-year period, at least 50% of AU DP graduates not going into an internship, employed or seeking employment, will report pursuing an advanced degree.
* 1.5 Over a 5-year period, the pass rate for AU DP graduates taking the DTR examination will be greater than or equal to 80%.

Program Goal 2:

The AU DP will prepare graduates to become contributing members of the scientific/professional community who can function as competent entry-level dietitians in a variety of settings.

* 2.1 Over a 5-year period, the pass rate for AU DP graduates taking the registration (RD) examination for the first time will be greater than or equal to 80%.
* 2.2 At least 80% of AU DP graduates will receive satisfactory or higher ratings from supervisors/employers in at least 75% of the areas surveyed.

Bachelor of Science with a comprehensive major in Dietetics

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIET 130 Principles of Food &amp; Meal Preparation</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>DIET 210 Introduction to Dietetics</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>DIET 213 Society's Infl. On Body Img/Eating</td>
<td>3</td>
<td>Soph. Status</td>
</tr>
<tr>
<td>DIET 230 Food Science and App.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>DIET 320 Human Nutrition</td>
<td>3</td>
<td>CHEM 103 or 251 or 253</td>
</tr>
<tr>
<td>DIET 330 Nutrition Counseling Skills</td>
<td>3</td>
<td>DIET 320</td>
</tr>
<tr>
<td>DIET 360 Lifecycle Nutrition</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>DIET 370 Community Nutrition</td>
<td>3</td>
<td>DIET 320</td>
</tr>
<tr>
<td>DIET 385 Advanced Human Nutrition</td>
<td>3</td>
<td>DIET 320, CHEM 307</td>
</tr>
<tr>
<td>DIET 395 Vitamins and Minerals</td>
<td>3</td>
<td>DIET 320, CHEM 104</td>
</tr>
<tr>
<td>DIET 400 Nutrition &amp; Disease I</td>
<td>3</td>
<td>DIET 320, CHEM 104</td>
</tr>
<tr>
<td>DIET 425 Nutrition &amp; Disease II</td>
<td>3</td>
<td>DIET 400</td>
</tr>
<tr>
<td>BIO 125-126 Anat.&amp; Physiology I &amp; II</td>
<td>3/3</td>
<td>125 for 126</td>
</tr>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>H.S. Bio and Chem or Equiv.</td>
</tr>
<tr>
<td>BIO 340 Microbiology</td>
<td>4</td>
<td>BIO 201, CHEM 104</td>
</tr>
<tr>
<td>CHEM 103-104 Gen. Chemistry</td>
<td>4/4</td>
<td>H.S. Chem; 3 yrs. H.S. math</td>
</tr>
</tbody>
</table>
EXERCISE SCIENCE PROGRAM

Mission
Exercise is vital to human health and well-being. Through accurate methods of fitness evaluation and the safe and effective implementation of the fitness prescription, potential benefits are afforded to all stakeholders, including individuals, communities, and the greater society. The program in exercise science enables students to develop their potential through the acquisition of knowledge, skills, and dispositions that facilitate opportunities to successfully pursue careers within the rapidly growing domain of exercise science.

Student Learning Outcomes
The exercise science program is a comprehensive major that provides opportunities for students to develop requisite proficiencies in preparation for careers in the exercise sciences and for admission to graduate profession schools (physical therapy, medicine, etc.). The coursework reflects standards established by the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association (NSCA). Students completing the exercise science major will:

1. understand the physiology of the human body at rest and during times of physical stress, with the goal of improving human performance;
2. be able to assess the fitness level of apparently healthy individuals and those with known pathology; and
3. be able to prescribe and develop appropriate exercise and lifestyle modification programs to assist clients in achieving their fitness and/or rehabilitation goals.

Degree Requirements (Exercise Science)

Bachelor of Science with a comprehensive major in Exercise Science

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXS 190 Anatomy &amp; Physiology for ES</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>EXS 210 Ex. Mgmt. of Cardioresp. Path.</td>
<td>2</td>
<td>EXS 190</td>
</tr>
<tr>
<td>EXS 258 Pharmacology for Exercise Sciences</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 310 Adv. Physiology of Exercise</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 312 Fitness Assess. And Exercise Prescrip. I</td>
<td>2</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 313 Fitness Assess. And Exercise Prescrip. II</td>
<td>2</td>
<td>EXS 312</td>
</tr>
<tr>
<td>EXS 314 Group Exercise Leadership</td>
<td>3</td>
<td>EXS 312</td>
</tr>
<tr>
<td>EXS 420 Strength Training Physiology</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 430 Exercise Science for Persons with Chronic Diseases</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 474 Sport Nutrition/Subst. Abuse</td>
<td>3</td>
<td>EXS 309</td>
</tr>
<tr>
<td>EXS 493 Internship (2 hrs. must be in geriatric science)</td>
<td>6</td>
<td>EXS 309, 312</td>
</tr>
<tr>
<td>CHEM 103 General Chemistry I</td>
<td>4</td>
<td>H.S. Chem, 3 Yrs. H.S. Math</td>
</tr>
<tr>
<td>DIET 320 Human Nutrition</td>
<td>3</td>
<td>CHEM 103 or 251</td>
</tr>
<tr>
<td>HS 182 First Aid and Safety Ed.</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>HS 360 Research in Health Sci.</td>
<td>3</td>
<td>MATH 208 and either DIET 320, AT 165, or ES 309</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>PSYC 101 General Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

Plus Institutional Baccalaureate Degree Requirements.

NURSING PROGRAM

Mission
The mission of the Nursing Department is to educate individuals to become nurse leaders committed to evidence-based practice and service in a diverse and global society. Our innovative nursing programs embrace the college's ICARE values (integrity, caring, accountability, respect, and excellence), interprofessional collaboration, scholarship, and lifelong learning.
Accreditation

The baccalaureate nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, N.W., Suite 530, Washington, DC 20036, www.aacn.nche.edu/accreditation; and is approved by the Ohio Board of Nursing (OBN), 17 South High Street, Suite 400, Columbus, OH 43125, www.nursing.ohio.gov

Student Learning Outcomes

Upon completion of the program, the student will be able to:

1. Synthesize knowledge from nursing and a liberal education as the basis for clinical judgment, reflective practice, and decision making.
2. Incorporate professional standards in the practice of nursing.
3. Value integrity, caring, accountability, respect and excellence in nursing practice.
4. Collaborate with patients and health professionals to develop and implement culturally appropriate health promotion, disease prevention, and illness care methods.
5. Select current theory and evidenced-based knowledge to guide and teach individuals, families, and populations regarding health promotion, and illness prevention.
6. Employ patient care technologies, information systems, and communication devices that support safe nursing practice and development of nursing knowledge.
7. Demonstrate knowledge of healthcare policy, finance, and regulatory environments that impact patient care.
8. Incorporate effective communication and collaboration skills to form partnerships to provide care and to promote positive outcomes to a diverse society in a global context.
9. Apply leadership concepts, principles of advocacy and decision making in the provision of quality patient care, healthcare team coordination and accountability for care delivery in a variety of settings.
10. Collaborate with healthcare professionals to enhance quality improvement and safety initiatives at individual and systems levels of care.
11. Investigate health-related social justice concerns within legal, ethical, and political contexts.
12. Value lifelong learning for personal and professional growth to support excellence in nursing practice.

Clinical Locations

Clinical experiences prepare students for nursing practice in diverse settings. Clinical experiences occur in acute care facilities, community agencies, and long-term care in the Mansfield area and surrounding counties. In addition, clinical rotations occur in facilities located within a 60-mile radius including Akron, Cleveland, and Columbus. Students participating in clinical experiences are responsible for providing their own transportation to and from the clinical site.

Student Honor Society

Sigma Theta Tau International Honor Society of Nursing inducts students majoring in nursing who have demonstrated superior achievement and leadership qualities. Membership is by invitation. Students who have completed half of the major requirements are eligible for membership by ranking in the top 35% of the class and earning a minimum of 3.0 GPA in Ashland University courses.

Student Organizations

The Dean’s Student Advisory Council is a representative group of students from all program tracks and levels. The purpose of the group is to promote the ICARE values among students, to discuss academic improvement strategies for the college, and to develop professional leadership skills.

The mission of the National Student Nurses Association (NSNA) is to organize, represent, and mentor students preparing for initial licensure as registered nurses; to promote development of skills that students will need as responsible and accountable members of the nursing profession, and to advocate for high quality health care. Advantages of belonging to NSNA include educational programs, community projects, attending conventions, scholarship opportunities, and networking with future leaders in nursing. The skills students gain by working in a student professional organization are invaluable. All students are encouraged to attend an informational session about opportunities of Ashland University Student Nurses Association (AU-SNA), Ohio Nursing Student Association (ONSA), and NSNA. For further information contact the faculty advisor(s) for AU-SNA.

The Nurses Christian Fellowship is a professional organization and a ministry for nurses and nursing students. Its mission is to encourage students and nurses to bring God’s love and healing to nursing and healthcare both locally and internationally. It is a ministry of Intervarsity Christian Fellowship/USA.

The SCRUBS Society focuses on service to Ashland University, the Dwight Schar College of Nursing and Health Sciences, the surrounding community, and the profession of nursing. The SCRUBS Society seeks to provide positive representation, leadership and encouragement to students, and increase enthusiasm towards College of Nursing and Health Sciences and the nursing profession. The representatives promote positive and active roles in the community, by demonstrating good conduct, volunteering, mentoring, and serving as a liaison between students, faculty and staff.
Description of Nursing Programs

The Bachelor of Science in Nursing degree prepares students to practice the art and science of professional nursing. Nursing majors are introduced to the profession’s theoretical knowledge base, research for evidence-based practice, focus on international perspectives in healthcare, apply the nursing process to families and aggregates in the community setting, explore the role of nurse as leader and manager, investigate the role of nurses in legal, ethical, and political settings, and learn the highly technical and clinical skills needed for working with patients and their families in a variety of settings. This degree also provides the foundation for graduate education in nursing. Four programs leading to a Bachelor of Science in Nursing are offered. Each student’s previous education and experience are evaluated to determine placement in the appropriate program within the College.

Traditional Four-Year Pre-licensure – The Traditional Four-Year program is designed for the student who has completed high school level education. Students in this program complete Ashland University core coursework in the first two academic years and begin clinical nursing coursework in their junior year.

Advanced Entry Pre-licensure – The Advanced Entry program is designed for students who have earned college credits at another institution. Students enrolled in this program complete required freshman and sophomore level nursing courses prior to transitioning into the junior year of the Traditional Four-Year program the following semester.

Accelerated Pre-licensure – The Accelerated program is designed for students who have already earned a college degree and who have life experiences in a field other than nursing. Students in the Accelerated program are recognized as having completed core education requirements in their past degree. Unlike the Traditional Four-year program, students in this program complete coursework at an accelerated rate, completing the BSN in 15 months.

RN to BSN Post-licensure – Registered nurses (RN) are provided the knowledge and skills to advance their nursing careers and build on their basic nursing education. They have the opportunity to earn the baccalaureate degree in nursing while building a strong foundation in the arts, sciences, and humanities.

Admission to Nursing Programs

As of April 2002, The Ohio Board of Nursing (OBN) has the authority to refuse to grant licensure to applicants with any of the felony convictions specified in the law. The law requires a criminal records check for new applicants for licensure in Ohio who entered a pre-licensure nursing education program on or after June 1, 2003.

Criminal background inquiries and drug screening (ten panel screen) will take place prior to clinical coursework for the traditional four-year program students and prior to admission to the program for advanced entry and accelerated program students. Post-licensure RN to BSN program students will obtain criminal background inquiries and drug screenings prior to the first clinical experience.

All background checks and drug screenings will be performed by the agency chosen by the College. Students who fail an initial drug screen will be allowed one additional repeat test to confirm the results. The College reserves the right to deny any student based on the results of the inquiry, regardless of felony or misdemeanor convictions.

Basic life support for health care providers from the American Heart Association (CPR) certification is required prior to clinical classes for the traditional four-year track students and prior to admission to the program for advanced entry and accelerated track students. For post-licensure students, certification is required upon admission.

Nursing students are required to meet the health and clinical requirements by submitting the appropriate student health documentation, including physical examination and immunization records, and documentation of health insurance. The Medical Record and Health History forms are available on the Eagle’s Landing page on the Ashland University website. Note that this requirement may be waived for RN to BSN students. See the nursing student handbook for detailed information on these requirements.

Admission Requirements for Pre-licensure Programs

There are three pre-licensure programs within the College of Nursing and Health Sciences (CONHS), and entries into these are summarized below:

* Traditional 4-Year Program - available for Freshman students changing majors, and some transfers
* Advanced Entry Program - available for transfers and Ashland University students who meet admission requirements
* Accelerated Program - available for students who have a Baccalaureate Degree in another field

Admission Requirements for Traditional 4-year Program

Students who meet the criteria below will be directly admitted to AU and the CONHS for their freshman year. Students who do not meet the nursing criteria, but meet the requirements for admission to AU will be admitted to AU but placed on a wait list for the CONHS. They will be evaluated initially on October 15 and then again in January of each school year and notified if they are conditionally accepted into the CONHS. (See "Waitlisted" section for more details.)

Academic Requirements:
1. Graduated from an accredited high school or equivalent.
2. A cumulative high school GPA of 3.0/4.0 (or GED with achievement at a minimum of the 55th percentile in each of the sub core areas).
3. ACT composite of 20 or a combined SAT score of 950 (CR/M).

Mental/Physical/Personal Requirements:
1. Must pass a criminal background check and drug screen. (This will be done prior to entering clinical coursework in the sophomore year.)
2. Must meet the health status criteria for mental and physical health.
3. Must be able to perform the essential functions for clinical coursework.
4. Must have the required immunizations.

Transfers Applying to the Traditional Four-year Program

Requirements:
1. Graduated from an accredited high school or equivalent.
2. Attended an accredited college or university. Students who have completed less than 30 semester hours of coursework must provide acceptable ACT and high school transcripts for acceptance.
3. Achieved at least a 3.0/4.0 cumulative grade point average in college coursework.
4. Meet all the mental/physical/personal requirements listed in the 4-year program.

Students meeting the above criteria will file the traditional BSN application. If students are slightly below the requirements they are still encouraged to apply. Students who do not meet the nursing criteria, but meet the requirements for admission to AU will be placed on a waitlist (see "Waitlist" section) and evaluated initially on October 15 and then again in January of each school year and notified if they are conditionally accepted into the CONHS.

Transfer credit from science courses will only be applied toward the nursing program if a grade of "C" or better is achieved. Science courses with a grade of "C-" can be transferred and applied toward Ashland University's institutional degree requirements, but will not apply toward the nursing program.

Students Transferring from an Accredited Nursing Program:

Credit for nursing courses taken at a previous college or university will be determined on a case by case basis. Students may be required to demonstrate safe practice in medication administration and other skills to progress even if transfer credit is granted. Literature indicates that these standards are predictive of success on the NCLEX-RN®.

Admission Requirements for Advanced Entry Program

The Advanced Entry baccalaureate pre-licensure program at the Dwight Schar College of Nursing and Health Sciences provides students who have college transfer credit an opportunity to complete freshman and sophomore level nursing coursework in a fast paced format during the summer and then transition immediately into their junior year of study (Traditional Program) the following fall. Admission to the pre-licensure, Advanced Entry Program is extremely competitive as spaces are limited. Prospective students are highly encouraged to begin the application process early. Application review will occur as the application is completed and required documents are received. Only applicants who complete the necessary application requirements listed below on or before the application deadline will be considered for admission.

Requirements:
1. Attended an accredited college or university.
2. At least a 3.0/4.0 cumulative grade point average in college coursework.
3. Completion of the following prerequisite courses from an accredited college or university. All prerequisite courses must be completed within 10 years prior to the program start date.

The following courses must be completed before the program start date:
- Developmental Psychology or Lifespan Human Development
- Nutrition
- Microbiology*
- Organic/Inorganic/Bio Chemistry*
- Human Anatomy and Physiology I & II*
- Ethics
- Statistics
- English Composition I and II

*denotes that the course must include a laboratory

4. Successful completion of all but four (4) university required core courses. Students may take no more than four (4) university required core courses during summer break and/or not more than one (1) course during the last semester provided the course is an online option.
5. Successful completion of the ATI TEAS placement exam with a minimum score of 70% obtained.
6. Meet all essential functions of clinical coursework listed in the Pre-licensure Nursing Student Handbook.
8. Upon meeting all acceptance requirements of the program the student must complete a federal and Ohio state criminal background check and a drug-screening test. The results of these tests will determine final acceptance of the student.
9. An optional interview may be required upon the request of the committee (this will be scheduled as needed upon receipt of a complete application).

Admission Requirements for Accelerated Program

The Accelerated 15-month baccalaureate pre-licensure program at the Dwight Schar College of Nursing and Health Sciences educates prospective nurses who have already earned a baccalaureate degree in another discipline but desire to enter the profession of nursing. Admission to the accelerated program is extremely competitive as spaces are limited. Prospective students are highly encouraged to begin the application process early. Application review will occur as the application is completed and required documents are received. Only applicants who complete the necessary application requirements listed below will be considered for admission.

The requirements of admission have been established to ensure that prospective students have a strong science background necessary to be successful in the pre-licensure program and in the profession of nursing.

Requirements:
1. Earned a baccalaureate degree from an accredited college or university prior to beginning coursework.
2. At least a 3.0 cumulative grade point average in college coursework.
3. Science prerequisite coursework cumulative grade point average must be a 2.5 GPA on a 4.0 GPA scale. The following courses must be completed before the program start date:
   Developmental Psychology or Lifespan Human Development
   Nutrition
   Microbiology*
   Organic/Inorganic/Bio Chemistry*
   Human Anatomy and Physiology I & II*
   Ethics
   Statistics
   *denotes that the course must include a laboratory
4. Completion of the following prerequisite courses from an accredited college or university. All prerequisite courses must be completed with a minimum letter grade of "C" in order for that credit to be count at meeting the prerequisite requirement. Science prerequisite coursework must have been completed within 10 years prior to the program start date. Science prerequisite coursework cumulative grade point average must be a 2.5 GPA on a 4.0 GPA scale.
5. Successful completion of a 15-minute phone interview with the Admission Committee (this will be scheduled as needed upon receipt of a complete application).
6. Meet all essential functions of clinical coursework listed in the Pre-licensure Nursing Student Handbook.
8. Upon meeting all acceptance requirements of the program the student must complete a federal and Ohio state criminal background check and a drug-screening test. The results of these tests will determine final acceptance of the student.

Current AU Students Who Want to Change Majors to Nursing

Current AU students who want to change majors should first speak with a CONHS Academic Advisor. There are two possible program options:
1. Most students will qualify to apply for the Traditional 4-year Program. Students should understand that it will take 4 years to complete the nursing program from the time they begin. The CONHS will offer rolling admissions for these students (fall/spring) so that they may only be behind in the program by one semester depending on when they apply.
2. The Advanced Entry Program may be an option for a student changing majors from a major heavy in science coursework, or those who have already been at AU for two years or more and have satisfied many of their Core requirements. The Advanced Entry Program is highly competitive with very limited space.

Students who wish to change majors will be accepted to the program pending space availability. If space is not available, students will be waitlisted (see "Waitlisted" section).

Students who met the AU admissions standards, but do not meet the CONHS standards will be evaluated for admission on a case by case basis. If a student demonstrates strength in science coursework, and is in good academic standing at AU, this will help them gain admission.

Existing AU students who have already taken the required science coursework and received a "C-" or below, will be required to retake these courses in order to gain admission to the CONHS. Exceptions to this may be granted for those who have taken subsequent (higher level) science courses and received grades of "C" or above.

Admission Requirements for International Students to the Nursing Program

Additional Admissions Requirements for International Students

In addition to the nursing program admission requirements, international students will also need to meet the following English Proficiency Requirements:
1. Traditional, Advanced or Accelerated Programs: TOEFL iBT score of 84 (Speaking subscore of 26) or IELTS 7.0 (Speaking subscore of 7.0).
2. RN to BSN: Applicants will need to have passed the NCLEX examination and be licensed to practice nursing in the United States.
International students will apply to the nursing programs through the International Student Services office (www.ashland.edu/iss). The SAT or ACT is optional for international students.

**Admission Requirements for RN to BSN Program**

To facilitate access to baccalaureate education for working registered nurses, all nursing courses for the RN to BSN Program are offered in an online format. Full and part-time study is available. Non-nursing courses are available in online or hybrid web-based formats.

Admission requirements:

1. Complete the RN to BSN application form and submit official transcripts from all institutions of higher education.

2. Hold a current, valid license (a license that is not inactive, suspended, revoked, or subject to restrictions, and for which the individual continues to meet all requirements for issuance) to practice as a registered nurse in one U.S. state or territory, or be dually enrolled in a RN licensure program, or be a graduate of a RN program and eligible for the NCLEX. Students admitted without a current, valid license shall adhere to additional program progression requirements.

**Admission Requirements for Gerontology Minor**

This 18 credit hour minor is open to students in any major.

**Waitlisted Students**

Any student waitlisted should be encouraged to begin taking science and other courses that will apply toward their nursing degree such as Chemistry 251 or an anatomy and physiology course. They should also begin taking courses that will satisfy their AU institutional degree requirements. These students should meet with Academic Advising to discuss their coursework plan while they are waitlisted.

Students will come off the waitlist on a case by case basis. Academic record, previous coursework, reasons for pursuing the nursing field and space availability will all be considered when admitting a student from the waitlist.

Existing AU students who change majors to nursing and are waitlisted will receive preference when coming off the waitlist and be guaranteed the next available spot in the class, provided they meet the entrance requirements to the nursing program.

**Grade Policy: Pre-licensure Students**

Grading Standard – Required Nursing Courses

All clinical and non-clinical courses must have quality points of a 2.0 or higher to meet graduation requirements. If the course grade is below a "C" (74%), the grade assigned to the course will be an "F". To meet graduation requirements, for any repeated nursing course, the repeated course must be above a 2.0 on the second attempt (refer to Dismissal Policy).

To be successful in the class, students must achieve an averaged minimum of “C” (74%) on objective examinations in all nursing courses except the following:

- NUR 105 - Nursing Concepts and Values
- NUR 335 – Genetics in Nursing Practice
- NUR 425 - Trends and Issues in Global Health
- NUR 430 - Advanced Simulation
- NUR 435 - Capstone Preceptorship
- NUR 460 - Theoretical Foundations in Health Research

Other assignments will be averaged into the course grade for final grade determination if the grade on objective examinations meets the minimum of “C” (74%).

Grading Standard - Clinical Nursing Courses

Clinical grades are stated as “Satisfactory” or “Unsatisfactory”. Satisfactory means that the student has achieved a level of performance demonstrating that he/she has met the objectives. Unsatisfactory means that the student has failed to demonstrate minimally acceptable behaviors and/or did not meet required clinical outcomes. If at any time the student is deemed by faculty to be unsatisfactory, the student will not be permitted to drop the course and the grade earned may not be higher than a "F". If the student has a lower grade in the didactic portion of the course, the grade earned will be assigned.

Grading Standard - Required Non-Nursing Courses

Quality points less than a 2.0 in Anatomy & Physiology I (BIO 222), Anatomy & Physiology II (BIO 223), Microbiology (BIO 240), Molecular Architecture (CHEM 251), or Chemical Perspectives on Life (CHEM 253) does not meet graduation requirements and the course must be repeated. The repeated course must be above a 2.0 on the second attempt or the student will be dismissed from the College of Nursing.

Quality points less than a 2.0 in Elementary Statistics (MATH 208), Developmental Psychology (PSYC 209) or Lifespan Human Development (FCS 270), Human Nutrition (DIET 320), or Ethics (PHIL 215) does not meet graduation requirements and the course must be repeated.

**Progression Requirements**

**Grade Policy: Post-licensure Students**

Each student must attain a minimum grade of "C" (74%) as a final grade in each nursing course to progress in the program. Any nursing course in which a grade of "C-" or lower is earned may be repeated. If a final nursing course grade of "C-" or lower is earned twice in the same course, the student will be dismissed from the nursing program.

Application for readmission may be made.

**Academic Dismissals**

A grade of "C-" or below in a nursing course is considered an unacceptable academic standard in the nursing program. Students who receive a "C-" or below in a nursing course can remain in the program but will be required to retake that course again as soon as possible.
Readmission to Nursing Programs

General Readmission Requirements

The CONHS Admission, Progression, and Retention Committee will determine if a student will be readmitted to the nursing program. Students may be readmitted to the nursing program no more than one time. Clinical orientation, auditing of nursing courses, or retaking of nursing courses may be required in the readmission process. Students who are readmitted to the nursing program are subject to the degree and graduation requirements in the AU catalog and nursing student handbook at the time of readmission. However, if a student continues to take classes at AU while not enrolled in the nursing program, they will be subject to the core requirements of their original AU catalog and nursing course requirements and policies in the AU catalog and student handbook at the time of readmission to the nursing program.

Readmission Process:

1. Complete and submit the Application for Readmission form at least 3 months prior to the beginning of the semester for which the student is applying.

2. After acceptance, return the Letter of Intent to the CONHS and attend orientation.

Readmission Criteria:

The following will be used in making a readmission decision:

1. Applicant's stated reason for requesting readmission.
2. Past academic performance and any work completed while absent is evaluated to determine potential for success and/or placement.
3. Demonstration of skills learned in courses completed prior to the student's leaving the program. This may include passage of a drug calculation exam and demonstration of clinical skills, as deemed appropriate. Successful completion of these requirements must occur prior to the student's readmission.
4. Whether or not the applicant will be able to complete the program within the 6-year requirement.
5. Space availability in the appropriate courses.

Readmission Progression Requirements:

1. The admission decision applies to the upcoming semester and cannot be deferred.
2. Applicants must repeat or audit course (even if passed) when the CONHS deems necessary.
3. Readmitted students must follow the progression/grade requirements.
4. Dismissed students will enter on probation and be assessed at the end of the first term.

Graduation Requirements (Pre-licensure)

To earn a BSN degree from Ashland University, 63 hours of nursing credits must be earned through Ashland University.
Graduation Requirements (Post-licensure)

A minimum of 50 semester hours of credit must be earned from a 4-year college/university for students in the post-licensure program. 30-32 semester hours of Ashland University required nursing courses can be used toward meeting this requirement. The remaining semester hours may be met through non-nursing coursework. RN to BSN Program proficiency credit may be earned for a maximum of two nursing courses. The last 12 semester hours earned before graduation must be earned from AU.

Degree Requirements (Pre-licensure Tracks) Required Nursing Courses:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 105 Nsg. Concepts &amp; Values</td>
<td>1</td>
<td>Adm. To CONHS</td>
</tr>
<tr>
<td>NUR 225 Patho/Pharm. II</td>
<td>3</td>
<td>BIO 223, CHEM 253, BIO 240 or concurrent, CHEM 251 or concurrent, NUR 105 or concurrent</td>
</tr>
<tr>
<td>NUR 226 Phatho/Pharm II</td>
<td>3</td>
<td>NUR 225 or concurrent, 225 or concurrent, 304 or concurrent, PSYC 209</td>
</tr>
<tr>
<td>NUR 301 Health Assessment</td>
<td>3</td>
<td>NUR 105 or concurrent, 225 or concurrent, 304 or concurrent</td>
</tr>
<tr>
<td>NUR 304 Health Found. II</td>
<td>3</td>
<td>NUR 105, 225, 301 (or concurrent), PSYC 209</td>
</tr>
<tr>
<td>NUR 306 Health Found II</td>
<td>5</td>
<td>NUR 226 (or concurrent), 304, Successful Completion of Medical Calculation Exam</td>
</tr>
<tr>
<td>NUR 310 Psychiatric/Mental Health</td>
<td>4</td>
<td>DIET 320, NUR 226, 306</td>
</tr>
<tr>
<td>NUR 311 Adult Health Concepts: Regulation &amp; Trans.</td>
<td>5</td>
<td>DIET 320, NUR 226, 306</td>
</tr>
<tr>
<td>NUR 312 Adult Health Concepts: Protection, Sensation &amp; Mobility</td>
<td>5</td>
<td>DIET 320, NUR 226, 306</td>
</tr>
<tr>
<td>NUR 335 Genetics in Nursing Practice</td>
<td>2</td>
<td>NUR 226, 306</td>
</tr>
<tr>
<td>NUR 410 Complex Health Alt.</td>
<td>5</td>
<td>NUR 311, 312</td>
</tr>
<tr>
<td>NUR 420 Community /Global Health</td>
<td>4</td>
<td>NUR 310, 410, 438, 440, 460</td>
</tr>
<tr>
<td>NUR 425 Trends and Issues in Global Health</td>
<td>3</td>
<td>NUR 310, 410, 438, 440, 460</td>
</tr>
<tr>
<td>NUR 428 Leadership/Mgmt of Health Organizations</td>
<td>3</td>
<td>NUR 310, 410, 438, 440, 460</td>
</tr>
<tr>
<td>NUR 430 Advanced Simulation</td>
<td>1</td>
<td>NUR 310, 410, 438, 440, 460</td>
</tr>
<tr>
<td>NUR 435 Capstone Preceptorship</td>
<td>2</td>
<td>NUR 310, 410, 438, 440, 460</td>
</tr>
<tr>
<td>NUR 438 Maternal/Newborn Health</td>
<td>4</td>
<td>NUR 311, 312</td>
</tr>
<tr>
<td>NUR 440 Pediatric Health</td>
<td>4</td>
<td>NUR 311, 312</td>
</tr>
<tr>
<td>NUR 460 Theoretical Found. In Health Research</td>
<td>3</td>
<td>MATH 208, NUR 311, 312</td>
</tr>
</tbody>
</table>

63 hrs.

Degree Requirements (Post-licensure Track) Required Nursing Courses:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 303 Individual Health</td>
<td>3</td>
<td>RN licensure</td>
</tr>
<tr>
<td>NUR 335 Genetics in Nursing Practice</td>
<td>2</td>
<td>Waived</td>
</tr>
<tr>
<td>NUR 362 Theory, Research, Evidence-based Prac.</td>
<td>4</td>
<td>RN licensure</td>
</tr>
<tr>
<td>NUR 303 Global Strategies in Public Health</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HS 322 Physical Aging</td>
<td>3</td>
<td>Waived</td>
</tr>
<tr>
<td>NUR 405 Health Care System</td>
<td>3</td>
<td>MATH 208, NUR 303, 309, 362</td>
</tr>
<tr>
<td>NUR 408 Legal, Ethical, Political Persp.</td>
<td>3</td>
<td>MATH 208, NUR 303, 309, 362</td>
</tr>
<tr>
<td>HS/NUR 309 Intl. Transcultural Persp.</td>
<td>3</td>
<td>MATH 208, NUR 303, 309, 362</td>
</tr>
</tbody>
</table>

27 hrs.

Required Non-Nursing Courses:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 125-126 Anat. &amp; Phys. I and II</td>
<td>3/3</td>
<td>BIO 125 for 126</td>
</tr>
<tr>
<td>BIO 240 Microbiology for Nursing</td>
<td>4</td>
<td>Nursing Major</td>
</tr>
<tr>
<td>BIO 340 Microbiology</td>
<td>4</td>
<td>BIO 201, CHEM 104 or perm.</td>
</tr>
<tr>
<td>CHEM 103 General Chemistry</td>
<td>4</td>
<td>H.S. Chem., 3 yrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 250 Lead and Civ.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHEM 251 Molecular Arch.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHEM 253 Chem. Persp. On Life</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elem. Stats.</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
</tbody>
</table>

Philosophy course 3

*Plus remaining Institutional Baccalaureate Degree Requirements. Also, see Transfer Policy

Required Non-Nursing Courses:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 222 Anat. &amp; Phys. I</td>
<td>4</td>
<td>Nursing Major</td>
</tr>
<tr>
<td>BIO 223 Anat. &amp; Phys. II</td>
<td>4</td>
<td>BIO 222</td>
</tr>
<tr>
<td>BIO 240 Microbiology</td>
<td>4</td>
<td>Nursing Major</td>
</tr>
<tr>
<td>CHEM 251 Molecular Arch.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHEM 253 Chem. Persp. On Life</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elem. Stats.</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
</tbody>
</table>

Philosophy course 3
Choose one from:

- PSYC 101 Gen. Psych. (3) None
- PSYC 209 Dev. Psych. (3) PSYC 101

22-23 hrs

Specialty Tracks - Choose one (consult your advisor):

- Gerontology (see Gerontology minor or certificate program) (18)
- Management (see Business Administration minor) (18)
- School Nurse Licensure Prep (see nursing advisor) (9)
- Design Your Own Focus (choose 4 courses, to be approved by program director and college dean)

9-18 hrs.

58-68 hrs.

*Plus remaining Institutional Baccalaureate Degree Requirements. Also, see Transfer Policy

Gerontology Minor

Undergraduate students may declare a minor in gerontology by speaking with their faculty advisor and/or professional academic advisor in their respective College. This advisor will assist the student in developing a curriculum plan incorporating the required coursework for minor completion.

Minor Required Courses:

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCWK 323 Later Adulthood in the Family</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 224 Psychology of Aging</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOC 223 Sociology of Aging</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 324 Working with Older Adults</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 350 Death and Dying</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EXS/DIET 343 Active Aging and Wellness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>OR HSFH 322 Physical Aging</td>
<td>3</td>
<td>3 hrs. of Biological Science at the 100 or 200 level, ES 190, Nursing Majo, or Perm.</td>
</tr>
</tbody>
</table>

18 hrs.

*Any five courses listed above meet the certification requirement.
Chair
Louis A. Mancha, Associate Professor of Philosophy

Faculty
William Vaughan, Professor of Philosophy
Mark Hamilton, Associate Professor of Philosophy
Jeffrey Tiel, Associate Professor of Philosophy

Degree Offered
Bachelor of Arts

Mission
The Department of Philosophy provides majors, minors, and other students a basic liberal arts understanding of historical philosophy, emphasizing exposure to primary classical works in a manner that challenges them intellectually and is consistent with the historic purpose of Ashland University to develop the whole person.

Student Learning Objectives
The student who is successful in the study of philosophy learns how to support his or her own claims with logical arguments, learns how to organize and analyze moral perspectives in a coherent and philosophically informed manner, and can locate his or her intellectual parameters and engage deeply in critical consultation with major texts in the history of philosophy.

For centuries, philosophical participation has been an essential component of self-realization. It generates human beings with greater democratic dispositions, greater tolerance of difference, more sensitivity to reciprocity, better able to engage in rational and moral discourse, and more prone to examine their own preferences—all qualities conducive to success in any field and living a more complete human life.

Student Learning Outcomes
The Philosophy Department student learning outcomes focus primarily on critical thinking and analytical reasoning skills. As a result of philosophical studies, students should be able to:

1. Identify, summarize, and appropriately reformulate philosophical problems, questions, or issues;
2. Identify and consider the influence of context and assumptions with regard to philosophical ideas;
3. Develop, present, and communicate their own perspective, hypothesis, or position, with regard to philosophical issues, topics, or controversies.
4. Present, assess, and analyze appropriate supporting data, evidence, and arguments;
5. Integrate other (disciplinary) perspectives and positions with regard their thinking;
6. Identify and assess conclusions, implications, and consequences of their views; and
7. Communicate those views effectively.

Facilities and Opportunities
* Philosophy bibliographic databases
* Access to Ashland Theological Seminary holdings and foreign languages
* Research internships
* Participation in Ohio Philosophical Association
* International Philosophy Honor Society (Phi Sigma Tau)
* Participation in Philosophy Club

Student Honor Society
Phi Sigma Tau, Ohio Mu Chapter, honors students who have demonstrated academic excellence in philosophy. Membership is by invitation, selected from students who have completed at least 9 semester hours of philosophy with a GPA of at least 3.2 in two of those classes, and have a cumulative GPA of 3.0 or higher.

Description of Major
Philosophy is unique both in its methods and in the nature and breadth of its subject matter. It pursues questions in every dimension of human life, and its techniques apply in any field of study or endeavor. No brief definition expresses the richness and variety of philosophy. It is a reasoned pursuit of fundamental truths, a quest for understanding, and a study of principles of meaning and conduct. It seeks variously to establish and to set into question standards of evidence, to provide rational methods of resolving conflicts, and to create techniques for evaluating ideas and arguments. Philosophy is both a group of activities and a body of knowledge, and our department teaches from original texts in ways that enable students to acquire the relevant skills so that they can think for themselves.

Degree Requirements
Assessment – All philosophy majors are required to participate in the department assessment process in their final year of study. The assessment process seeks to measure the department’s stated learning outcomes. This process involves submission of a paper and completion of an online exit exam.
Bachelor of Arts with a major in Philosophy

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 intro course (PHIL 204, 205, 208 or 217)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>1 ethics course (PHIL 210, 215 or 280)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>1 logic course (PHIL 220 or 320)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>2 hist. courses (PHIL 311, 312, 313 or 314)</td>
<td>6</td>
<td>PHIL 204, 205, 208, 210 or 215</td>
</tr>
<tr>
<td>3 PHIL electives (300 level or above)</td>
<td>9</td>
<td>24 hrs.</td>
</tr>
</tbody>
</table>

Plus Institutional Baccalaureate Degree Requirements.

Note: At least 15 hours of coursework must be taken at the 300 level or above.

Minor in Philosophy

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 intro course (PHIL 204, 205, 208 or 217)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>1 ethics course (PHIL 210, 215 or 280)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>1 logic course (PHIL 220 or 320)</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>1 hist. courses (PHIL 311, 312, 313 or 314)</td>
<td>3</td>
<td>PHIL 204, 205, 208, 210 or 215</td>
</tr>
<tr>
<td>1 PHIL elective (300 level or above)</td>
<td>3</td>
<td>15 hrs.</td>
</tr>
</tbody>
</table>

Minor in Ethics

See listing in Religion.

Philosophy Courses and Descriptions

See Course Descriptions section of catalog.
Physics
Department of Chemistry/Geology/Physics
The College of Arts and Sciences

Chair
Rebecca W. Corbin, Professor of Chemistry

Faculty
Rodney A. Michael, Associate Professor of Physics

Degrees Offered
Bachelor of Science
Bachelor of Science in Education

Mission and Goals
The physics program prepares students to approach scientific problems in a logical, succinct fashion; to ascertain the relationship of physics to the other sciences and the nature of the world in which they live; and to develop skills needed to be successful in graduate study or professional careers in science, education, or technology.

Student Learning Outcomes
Students in physics and related programs will:
1. Describe and apply the major concepts, experimental findings, and theories of physics;
2. Be proficient with the laboratory techniques and methods of physics;
3. Follow proper safety procedures and regulations for use of chemicals and laboratory equipment;
4. Be competent with basic software including word processing, spreadsheet, and presentation programs;
5. Design appropriate investigations, interpret the results, and make decisions within the context of physics.
6. Effectively communicate information both orally and in writing;
7. Practice good ethical and professional behavior within the context of the discipline.

Facilities and Equipment
The physics program uses two multi-purpose laboratories and a dark room. Equipment available for every student's use includes Tektronix oscilloscopes, function generators, multimeters, and a variety of illustrative introductory laboratory equipment. One laboratory room includes interfacing electronics to allow for computer collection and analysis of data. Advanced students also have access to equipment for reproducing several famous 20th century experiments, and a small Unix sub-network is available to upper level students for use in computation and modeling.

Description of Major
Physics is the study of matter, energy, space, and time. The study of physics is foundational to the scientific disciplines of biology, chemistry, and geology. Physicists study the fundamental particles of matter (quarks and leptons), the four fundamental forces, and the properties of energy in all of its varied forms, seeking to understand the underlying laws or patterns that govern the behavior of matter. Fundamental advances in physics undergird modern technology. Ashland provides its majors in physics with a broad training in physics that challenges students to learn to think as physicists, along with having the opportunity to conduct independent research as part of their major.

Degree Requirements
Assessment – The assessment of student learning outcomes for physics majors includes both internal and external assessments in selected courses, typically culminating in the PHYS 497 Laboratory and Field Research course or the PHYS 493 Internship course.

Bachelor of Science with a comprehensive major in Physics
This program is designed for those students who wish to pursue a career in science, with heavy emphasis on physics.

Course Number and Title                      Hrs.  Prerequisites
---                                          ----  ------------------
PHYS 205-206 Univ. Physics                  10   MATH 206
3 courses from:                             9    
PHYS 301 Elect. & Mag. I  (3)              PHYS 206, MATH 305
PHYS 302 Elect. & Mag. II (3)              PHYS 301
PHYS 303 Mechanics I (3)                   PHYS 206, MATH 305
PHYS 304 Mechanics II (3)                  PHYS 303
PHYS 305 Modern Physics                    PHYS 206, MATH 305
PHYS 306 Heat                              3    PHYS 206, MATH 206
PHYS 403 Quantum Mechanics                 PHYS 305, MATH 313
PHYS electives (300 or 400-level)          6    
MATH 205-206 Calculus                      5/5   MATH 111 or Equiv.; MATH 205 for 206
MATH 305 Calculus III                      4    MATH 206
MATH 313 El. Differential Equations        3    MATH 305
CHEM 103-104 Gen. Chemistry                4/4   H.S. Chem; 3 yrs. H.S. Math; CHEM 103 for 104
Electives from biology, chemistry,        6    computer science, geology
Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a comprehensive major in Integrated Science (Grades 7-12)
See listing in Chemistry area.

Bachelor of Science in Education with a comprehensive major in Physical Science (Grades 7-12)

Assessment – Assessment in teacher education programs begins with admission to teacher education and continues throughout the program. Exit assessment includes a professional portfolio and completion of all appropriate interim assessments. See the Education section of the catalog for the detailed description of the entire process.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 103 General Chemistry I</td>
<td>4</td>
<td>3 yrs. H.S. Math</td>
</tr>
<tr>
<td>CHEM 104 General Chemistry II</td>
<td>4</td>
<td>CHEM 103</td>
</tr>
<tr>
<td>CHEM 307/307L Organic Chem. &amp; Lab</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM 320 Quant. Analysis</td>
<td>4</td>
<td>CHEM 104</td>
</tr>
<tr>
<td>CHEM/GEOL/PHYS/PHIL 350 Science as a Cultural Force</td>
<td>3</td>
<td>Any natural science core course</td>
</tr>
<tr>
<td>CHEM 411 Physical Chemistry I</td>
<td>4</td>
<td>PHYS 206, MATH 206</td>
</tr>
<tr>
<td>CHEM 412 Physical Chemistry</td>
<td>4</td>
<td>CHEM 411</td>
</tr>
<tr>
<td>MATH 205 Calculus I</td>
<td>5</td>
<td>MATH 111 or Equiv</td>
</tr>
<tr>
<td>MATH 206 Calculus II</td>
<td>5</td>
<td>MATH 205</td>
</tr>
<tr>
<td>PHYS 205 University Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHYS 206 University Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
<tr>
<td>PHYS 303 Mechanics I</td>
<td>3</td>
<td>PHYS 206</td>
</tr>
<tr>
<td>PHYS 305 Modern Physics</td>
<td>4</td>
<td>PHYS 206, MATH 206</td>
</tr>
<tr>
<td>BIO 201 Molec. &amp; Cellular Basis of Life</td>
<td>4</td>
<td>H.S. Bio &amp; Chem.</td>
</tr>
<tr>
<td>Choose from one:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOL 101 Physical Geology</td>
<td>(4)</td>
<td>None</td>
</tr>
<tr>
<td>GEOL 102 Historical Geology</td>
<td>(4)</td>
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</tr>
<tr>
<td>Education requirements:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDCI 230SEC AYA (7-12) Field Exp. I</td>
<td>1</td>
<td>Concurrent with EDCI 287</td>
</tr>
<tr>
<td>EDCI 232 Intro. to Prin. Of Instr. Tech.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EDCI 287 Curr./Instr./Assess. 7-12</td>
<td>3</td>
<td>EDFN 202</td>
</tr>
<tr>
<td>EDCI 330SEC AYA Field Exp. II</td>
<td>3</td>
<td>EDCI 230, 287; PSYC 209 or 218</td>
</tr>
<tr>
<td>EDCI 392 Content Area Reading</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EDCI 318 Tch. 21st Cent. Adol. Science</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EDCI 461 Student Internship Gr. 7-12</td>
<td>10</td>
<td>All student internship req.</td>
</tr>
<tr>
<td>EDFN 130 Intro. to Teaching</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>EDFN 202 Teaching and Learn. Process</td>
<td>3</td>
<td>EDFN 130</td>
</tr>
<tr>
<td>EDFN 402 Social and Prof. Issues</td>
<td>3</td>
<td>Sr. Status</td>
</tr>
<tr>
<td>EDIS 250 Intro. Educational Intervention</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 218 Psyc. of Adolescence</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>

102 hrs.

Plus Institutional Baccalaureate Degree Requirements.

Minor in Physics

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 205 University Physics I</td>
<td>5</td>
<td>MATH 206</td>
</tr>
<tr>
<td>PHYS 206 University Physics II</td>
<td>5</td>
<td>PHYS 205</td>
</tr>
<tr>
<td>PHYS 301 Elect. &amp; Magnet.</td>
<td>4</td>
<td>PHYS 206, MATH 305</td>
</tr>
<tr>
<td>PHYS electives (300 or 400-level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MATH 205-206 Calculus</td>
<td>5/5</td>
<td>MATH 111 or Equiv.; MATH 205 for 206</td>
</tr>
<tr>
<td>MATH 305 Calculus III</td>
<td>4</td>
<td>MATH 206</td>
</tr>
</tbody>
</table>

Physics Courses and Descriptions

See Course Descriptions section of catalog.
Political Science

Department of History/Political Science
The College of Arts and Sciences

Chair
David Foster, Associate Professor of Political Science

Faculty
Peter W. Schramm, Professor of Political Science
Jeffrey Sikkenga, Professor of Political Science
Christopher Burkett, Associate Professor of Political Science
Justin Lyons, Associate Professor of Political Science
Rene Paddags, Assistant Professor of Political Science

Degrees Offered
Bachelor of Arts
Bachelor of Science in Education

Mission
The political science program studies the great political thinkers, the institutions and practices of government, and selected statesmen with the intention of helping students think more clearly about politics, American government, and international relations. The program does not aim to train specialists in a particular skill, but to enliven students with the capacity to think seriously about themselves as human beings and to consider prudently the important social and political questions they will face as citizens. We believe that the study of politics is an important part of a liberal education, and that it contributes to learning how to read carefully, follow arguments closely, write clearly, and speak thoughtfully.

Student Learning Outcomes
Students who complete the major in political science will
1. Demonstrate their knowledge in three areas of the discipline—political philosophy, American government, and international politics; and
2. Demonstrate their capacity to reason critically about political problems.

Student Honor Society
Pi Sigma Alpha, Rho Omega chapter, is the national political science honor society. Membership is open to students who have completed a minimum of 15 credit hours in political science and have a cumulative GPA of 3.3.

Ashbrook Center for Public Affairs
The Ashbrook Center for Public Affairs is an academic forum for the study, research, and discussion of the principles and practices of American constitutional government and politics. The Ashbrook Center sponsors the Ashbrook Scholarship program, hosts a series of campus lectures and conferences, and provides internship opportunities for students interested in careers related to public affairs.

Description of Major
Political science is the study of how and why human beings live together in society. This study is centered on the great questions animating political life: What is justice? Who should rule? What is the best kind of society?

As history shows, there are different kinds of political societies with distinct characters or regimes. For example, modern societies have democratic institutions and a way of life based on ideas of equality and freedom. The difference between political societies naturally leads to the comparative question of which one is best. This question—What is the best regime?—is the highest theme of political science; for it is only with knowledge of the best society that we can understand and adequately evaluate the variety of actual societies and ways of life. To pursue that question, we must identify and describe the forces, needs, and desires which bring human beings together and then explain how these things account for all the various regimes and forms of political life such as the city, the nation-state, or the empire. One fundamental way is to study the works of the greatest political thinkers like Plato, Aristotle, Locke, or The Federalist.

At the same time, we also must study the world of political action: laws, governing institutions, relations between countries, and the words and deeds of statesmen who practice political art at its highest, like George Washington, Abraham Lincoln, or Winston Churchill. This combined study of political philosophy, political institutions, and statesmanship makes up political science in all aspects.

Degree Requirements
Assessment—As part of the department's assessment process, majors in political science and international political studies will be asked to complete a test during their freshman year and again during their senior year.
Bachelor of Arts with a major in Political Science

This program is a traditional major in political science designed for students who wish to prepare themselves for careers that build on a background in political science or who seek knowledge of political life as part of a liberal education. The program offers courses in the following fields:

(A) American Politics (POLSC 236, 305, 310, 312, 336, 337, 370, 375)
(B) Political Thought (POLSC 320, 321, 343, 344, 345, 346, 380, 385)
(C) Comparative and International Politics (POLSC 205, 231, 355, 360, 390)

Course Number and Title               Hrs.           Prerequisites
POLSC 101 Understanding Politics 3 None
POLSC 102 Democracy in Am. 3 None
POLSC 343 West. Polit. Thought I 3 POLSC 101
POLSC 345 West. Polit. Thought III 3 POLSC 101
POLSC 431 Human Being and Citizen 3 Sr. Status; Dept. Major
Electives from political science 21
Majors are required to demonstrate either:

Proficiency in a modern or ancient language through the intermediate level (0-12)
OR
Proficiency in a modern or ancient language through the elementary level and completion of a study or internship abroad (0-12)

36 hrs.

*Students should consult their academic advisor or the Department Chair for definitions of "elementary" and "intermediate" and for how to demonstrate proficiency in a language not learned at Ashland University. For this major, study or internship abroad must involve at least four weeks of travel outside of the United States, and may be completed through an AU study abroad/away, an independent study course (498), or an elective internship (293, 393, or 493).

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Arts with a major in International Political Studies

Course Number and Title               Hrs.           Prerequisites
POLSC 101 Understanding Politics 3 None
POLSC 102 Democracy in Am. 3 None
POLSC 205 Comparative Politics 3 None
POLSC 231 Int. Relations 3 None
HIST 236/POLSC 236 Am. Foreign Pol. 3 None
POLSC 343 Western Political Thought I 3 POLSC 101
POLSC 345 Western Political Thought III 3 POLSC 101
POLSC 431 Human Being and Citizen 3 Sr. Status, Dept. Major

Choose three: 9
HIST 271/POLSC 360B 20th Cnt. Eu. (3) None
HIST 327/POLSC 360C Africa (3) None
HIST 329/POLSC 360D Latin Amer. (3) None
HIST 341/POLSC 341 Mod. Mid E (3) None
HIST 343/POLSC 360F Mod. E Asia (3) None
REL 107 Exploring World Religions (3) None
Choose two: 6
HIST 321 Warfare: Ancient/Modern (3) None
HIST 364 World War II (3) None
POLSC 355 International Organization (3) None
POLSC 360 Regional Studies (3) None
POLSC 390 Topics-Comp./Intern. Pol. (3) None
Choose two: 6
ECON 232 Princ. Of Microecon. (3) None
ECON 233 Princ. Of Macroecon. (3) None
ECON 324 Econ. of Govt. and Bus. (3) ECON 101, 232 or 233
ECON 342 International Economics (3) ECON 232 or 233
Majors are required to demonstrate either:

Proficiency in a modern or ancient language through the intermediate level (0-12)
OR
Proficiency in a modern or ancient language through the elementary level and completion of a study or internship abroad (0-12)

45-47 hrs.

*Students should consult their academic advisor or the Department Chair for definitions of "elementary" and "intermediate" and for how to demonstrate proficiency in a language not learned at Ashland University. For this major, study or internship abroad must involve at least four weeks of travel outside of the United States, and may be completed through an AU study abroad/away, an independent study course (498), or an elective internship (293, 393, or 493).

Notes: Each individual POLSC 360 course may only count in one place. Study abroad is highly recommended (see advisor).

Plus Institutional Baccalaureate Degree Requirements.

Bachelor of Science in Education with a major in Integrated Social Studies (Grades 7-12)

See listing in History.

Minor in Political Science

Course Number and Title               Hrs.           Prerequisites
POLSC 101 Understand. Polit. 3 None
POLSC 102 Democracy in Am. 3 None
1 of the following: 3
POLSC 343 West. Polit. Thought I (3) POLSC 101
POLSC 345 West. Polit. Thought III (3) POLSC 101
POLSC 346 West. Polit. Thought IV (3) POLSC 101
Electives from political science 9
18 hrs.
Note: Electives in this minor may not be used to fulfill requirements of the International Political Studies major.

Minor in Classical Civilization
See listing in History Department.

Political Science Courses and Descriptions
See Course Descriptions section of catalog.
Psychology
Department of Psychology
The College of Arts and Sciences

Chair
Mitchell Metzger, Professor of Psychology

Faculty
Diane Bonfiglio, Associate Professor of Psychology
Curt Ickes, Associate Professor of Psychology
Christopher Chartier, Assistant Professor of Psychology

Degrees Offered
Bachelor of Arts
Bachelor of Science

Mission
The Department of Psychology provides a balanced education in psychology, presenting a thorough foundation in the scientific study of behavior and mental processes, while emphasizing ethical applications of psychology as a discipline to individuals and society. The department maintains a current curriculum and provides students with opportunities to become proficient in fundamental intellectual and social skills that are essential for achievement in the work world.

Student Learning Outcomes
Students majoring in psychology will be expected to demonstrate:
* Knowledge in the basic content areas of the discipline of psychology, as evidenced through exams and papers submitted in their psychology courses;
* An understanding and use of scientific methodology, as seen through successful completion of research methods course(s);
* Intellectual and social skills that are needed for a career in psychology and required for achievement in the work world, as seen through successful completion of assignments in service learning courses, internships, or pre-professional seminars; and
* The expression of psychological concepts and ideas in both written and oral form, as shown through formal research projects or the student's psychology coursework.

Opportunities
Internships and individual research projects are encouraged. There are opportunities to assist professors with research and to present research at regional conferences in places such as Chicago, Boston, and Philadelphia.

The Psychology Club offers the opportunity for social interaction with other students interested in psychology.

Student Honor Society
The Psi Chi International Honor Society is for majors or minors in psychology. Undergraduates who are elected to Psi Chi must rank in the upper 35% of their class, have completed at least 9 semester hours of psychology courses, and have earned a minimum 3.0 in psychology courses.

Description of Majors
The psychology major is built upon a strong liberal arts base as provided by the University's core curriculum. The coursework is designed to acquaint the student with basic content areas of the science of psychology. Scientific methodology, thought, and the ethical application of knowledge outside of the classroom is emphasized. Psychology students become proficient in fundamental intellectual and social skills essential for a career in psychology and required for achievement in the world of work. The department assists students with professional aspirations in pursuing graduate education and provides a broad psychology background for those with other career plans. Students pick a B.A. or B.S. degree based on their areas of academic strength and their career plans. Individual research projects and internships are encouraged for all psychology majors.

Degree Requirements
Students majoring or minoring in psychology may be granted waiver or credit for General Psychology 101.

Assessment - All psychology majors with sophomore or higher status are required to develop an experimental research project or complete an internship or independent study.

Bachelor of Arts with a major in Psychology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>PSYC 101 General Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 210 Research Methods</td>
<td>3</td>
<td>PSYC 101</td>
</tr>
<tr>
<td>PSYC 310 Advanced Research</td>
<td>3</td>
<td>PSYC 101, 210, MATH 208</td>
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<tr>
<td></td>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>PSYC 393/493 Elective Internship</td>
<td>(3)</td>
<td>Permission of Department</td>
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<tr>
<td></td>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>PSYC 498 Independent Study</td>
<td>(3)</td>
<td>Permission of Department</td>
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<td></td>
<td></td>
<td>OR</td>
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<tr>
<td>Thesis through other dept. (e.g. Honors, Ashbrook)</td>
<td>(3)</td>
<td>Permission of Department</td>
</tr>
</tbody>
</table>
Select one course from each content area: 12

Clinical area:
- PSYC 307 Personality (3) PSYC 101
- PSYC 417 Abnormal Psych. (3) PSYC 101

Biological area:
- PSYC 412 Physiological Psych. (3) PSYC 101
- PSYC 414 Neuropsychology (3) PSYC 101

Developmental/Social area:
- PSYC 209 Developmental Psychology (3) None
- PSYC 305 Social Psychology (3) PSYC 101

Cognitive/Learning area:
- PSYC 320 Cognitive Psychology (3) PSYC 101
- PSYC 324 Theor./Princ. Of Learn. (3) PSYC 101

Psychology electives* 15

42 hrs.

Plus Institutional Baccalaureate Degree Requirements.

*Student will consult with their advisors to help choose electives in line with stated career goals. Courses chosen to fulfill the requirement of the different areas above do not count for the psychology electives requirement. At least 6 credit hours must be at the 300 level or above.

Bachelor of Science with a comprehensive major in Psychology

Course Number and Title               Hrs.           Prerequisites
BIO 125-126 Anatomy & Physiol. I & II  3/3           BIO 125 for 126
OR
BIO 325-326 Anat. & Physiology        (4/4)          BIO 201; 325 for 326
BIO 201 Molec. & Cellular Basis of Life 4           None
BIO 303 Genetics (w/lab)              4           BIO 126 or 202
CHEM 103 General Chemistry           4           H.S. Chem, 3 yrs.
                                         H.S. Math
                                         OR
CHEM 251 Molecular Arch.              (3)           None
MATH 208 Elem. Statistics             3           MATH 100 or ACT 18 or SAT 480
Elective from BIO, CHEM, MATH or CS    3           Course Dependent
PSYC 101 General Psychology I         3           None
PSYC 210 Research Methods             3           PSYC 101
PSYC 310 Advanced Research            3           PSYC 101, 210, MATH 208
                                         OR
PSYC 393/493 Elective Int.            (3)           Permission of Department
                                         OR
PSYC 498 Independent Study            (3)           Permission of Department
                                         OR
Thesis through other dept. (e.g. Honors, Ashbrook) (3) Permission of Department

Minor in Psychology

Course Number and Title               Hrs.           Prerequisites
PSYC 101 General Psychology I         3           None
Electives in psychology               15           None
                                         18 hrs.

Psychology Courses and Descriptions

See Course Descriptions section of catalog.
Religion
Department of Religion
The College of Arts and Sciences

Chair
Peter Slade, Associate Professor of Religion

Faculty
David C. Aune, Associate Professor of Religion
Sue Dickson, Associate Professor of Religion
Craig Hovey, Associate Professor of Religion

Degree Offered
Bachelor of Arts

Mission
The Department of Religion furnishes a basic Biblical understanding and appreciation of Christian thought for all graduating students. It seeks to help students become aware of how religious commitments and values continue to shape our world views and affect our ethics. It also seeks to be a learning environment for intensive and advanced work in religious explorations as a means of preparing students for graduate study and professional careers in churches and ministry.

Objectives of the Religion Department
1. To furnish a basic Biblical understanding and appreciation of Christian thought for all graduating students;
2. To provide preliminary studies for students wishing to do graduate work in religion;
3. To prepare students to enter seminary training, religious vocations and related social professions;
4. To provide courses of study for students who wish to teach religion in primary and secondary schools; and
5. To provide courses of study for students who have interests in Christian involvement in community and church.

Student Learning Outcomes
1. To develop a basic knowledge of the Bible, as well as the reading and writing skills to engage and critically analyze the Biblical text and secondary Biblical studies writings;
2. To develop an overall understanding of the history of Christian thought and practice, as well as the reading and writing skills and historical tools to critically engage primary works in Christian history;
3. To develop a basic understanding of Christian systematic and historical theology and ethics, as well as the reading and writing skills to critically engage primary works in Christian theology and ethics;
4. To develop a familiarity with and appreciation for world religious traditions; and
5. To integrate religious studies into life and vocation.

Clinical Experience in Religion
Majors in religion may elect an internship in a congregation or other ministry setting for up to nine credit hours (typically three credit hours at a time) under the supervision of a leader approved by a Religion Department faculty member. Students must comply with all Independent Study Program requirements and guidelines developed by the Career Services Center.

Study Abroad options include following the footsteps of the Apostle Paul in Greece, exploring the legacy of Peter and Paul in Italy and participating in mission trips coordinated through the Center for Religious Life in conjunction with a course on short term missions.

Pre-Seminary Group and Accelerated BA/MAPT
An important objective of the department is to prepare students to enter seminary training, and explore religious vocations. The pre-seminary group helps students who wish to explore the possibility of entering seminary after graduation and/or who wish to pursue a vocation in Christian ministry. Participants in the group will:
1. Major or minor in Religion (Required);
2. Be paired with one of the religion professors who will serve as a pre-seminary mentor;
3. Participate in the Clinical Experience in Religion (Recommended).

In their junior year, pre-seminary students will be encouraged to take advantage of the close relationship between the department and Ashland Theological Seminary by applying to enter the accelerated Bachelor of Arts/ Master of Arts in Practical Theology (BA/MAPT). This acceleration consists of a combination of classes taken for the religion major counting as courses with advanced standing with credit in the MAPT, graduate classes from the seminary counting as undergraduate general electives, and summer internships with churches. For students planning on going into the ministry, the accelerated BA/MAPT will enhance the undergraduate major in religion and significantly reduce the time and cost of a seminary degree. For additional information, contact Dr. Peter Slade (419-289-5237; pslade@ashland.edu).
Description of Major

Religion majors become a part of a learning community that is both academically rigorous and sensitive to issues of faith development and spiritual formation. Students take courses in five major areas (Biblical studies, theology and ethics, Christian history, world religions, and practical theology). The religion major not only prepares those who are called to a life of ministry in the church or academy but also helps those who are planning a career in other fields to apply a Biblical and theological world view to their respective disciplines.

Degree Requirements

Assessment – Upon declaring a religion major, the student should fill out the “Religion Major Information Form” and return it to his or her adviser. As part of the 30-hour degree requirement, majors must successfully fulfill all requirements of the REL 497 Religion Thesis Seminar course in their junior or senior year, resulting in the completion of the Religion Thesis. Finally, before graduation, majors must complete and submit the "Senior Assessment Survey."

Bachelor of Arts with a major in Religion

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 106 Exploring the Bible</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>REL 208 Explor. Christian Theology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>REL 497 Rel. Thesis Seminar</td>
<td>3</td>
<td>REL 106, Perm</td>
</tr>
<tr>
<td>Biblical Studies – (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 210 The Gospels</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 213 Life and Letters of Paul</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 304 Adv. Old Test.</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 305 Adv. New Test.</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>Christian History – (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 230 Hist. of Early Christianity</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 231 Hist. Med./Reform. Christ.</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 232 Hist. Religions in America</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 234 Hist. of Christian Worship</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>World Religions – (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 107 Exploring World Religions</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>Seminar – (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 400 Christian Literature</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 401 Seminar/Christian Ethics</td>
<td>(3)</td>
<td>REL 106 or 208</td>
</tr>
<tr>
<td>REL 404 Sem./Christian Theology</td>
<td>(3)</td>
<td>REL 106, 208</td>
</tr>
</tbody>
</table>

Religion Electives - (choose three) 9
30 hrs.

Minor in Religion

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biblical Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 106 Exploring the Bible</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Christian Thought - (choose one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 109 Exp. Christian Ethics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 208 Exp. Christian Theology</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 220 Taking Human Life</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 230 Hist. of Early Christianity</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 231 Hist. Med./Reform. Christ.</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 232 Hist. Mod. Christianity</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 233 Hist. Religions in America</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 234 Hist. of Christian Worship</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 308 Political Theology</td>
<td>(3)</td>
<td>REL 106, 107 or 109</td>
</tr>
<tr>
<td>REL 341 World Christianity Mission</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 400 Christian Literature</td>
<td>(3)</td>
<td>REL 106</td>
</tr>
<tr>
<td>REL 401 Seminar/Christian Ethics</td>
<td>(3)</td>
<td>REL 106 or 109</td>
</tr>
<tr>
<td>REL 404 Sem./Christian Theology</td>
<td>(3)</td>
<td>REL 106, 208</td>
</tr>
</tbody>
</table>

Electives from religion dept. 6
12 hrs.

Minor in Ethics

Note: Religion and Philosophy majors may count one of the ethics courses from that major toward the ethics minor requirement in that department.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy ethics courses - Choose 2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 210 Phil. of Human Nature</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>PHIL 215 Ethics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>PHIL 280 Applied Ethics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>Religion ethics courses - (choose 2):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL 109 Exploring Christian ethics</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 220 Taking Human Life</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>REL 308 Political Theology</td>
<td>(3)</td>
<td>REL 106, 107 or 109</td>
</tr>
<tr>
<td>REL 401 Sem. in Christian Ethics</td>
<td>(3)</td>
<td>REL 106 or 109</td>
</tr>
<tr>
<td>Any approved ethics course*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 hrs.</td>
</tr>
</tbody>
</table>

*Courses will be approved by the Ethics Minor Committee. See department chair for the list.

Religion Courses and Descriptions

See Course Descriptions section of catalog.

Plus Institutional Baccalaureate Degree Requirements.

NOTE: Religion majors may only count one religion course toward their Humanities area of the Core.
Chair
Cindy Moseman, Assistant Dean of the College of Arts and Sciences

Faculty
Nancy Udolph, Field Director, Associate Professor of Social Work
Michael Vimont, Program Director, Assistant Professor of Social Work

Degree Offered
Bachelor of Science in Social Work

Mission and Goals
The mission of the Social Work program is to prepare competent beginning generalist social work practitioners to provide effective service with diverse individuals, families, groups, organizations, and communities by applying the knowledge, values, and skills of the profession while advancing social and economic justice in local, national, and global contexts. The program delivers a curriculum, grounded in the liberal arts, which promotes critical thinking and an understanding of the need for life-long learning and continuing professional development.

Student Program Goals
Program goal #1: Prepare students for competent professional generalist social work practice with diverse individuals, families, small groups, organizations, and communities in local, national, and global contexts.

Program goal #2: Prepare students for critical thinking through an educational process combining the liberal arts core curriculum with professional social work education.

Program goal #3: Prepare students to incorporate the values and ethics of the social work profession into their professional practice.

Program goal #4: Prepare students to advocate for change in policies, programs, and resource allocations that seek to advance human well-being, promote social and economic justice, empower clients, and respect diversity.

Program goal #5: Prepare students with a foundation for lifelong learning, continuing professional development, and advanced study.

Student Learning Outcomes:
A student graduating with a degree in Social Work will be able to:
1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice
6. Engage with individual, families, groups, organizations, and communities
7. Assess individuals, families, groups, organizations, and communities
8. Intervene with individuals, families, groups, organizations, and communities
9. Evaluate practice with individuals, families, groups, organizations, and communities

Accreditation
The program is accredited by the Council on Social Work Education (CSWE) at the baccalaureate level. Graduates are eligible to take the standardized national licensing examination required for licensure in the State of Ohio.

Field Experience in Social Work
Field experience is integrated into every social work course. Students complete an agency observation, interview persons who work in agencies, interview individuals and families for specific assignments, visit a nursing home resident for a semester, and attend support groups. In addition, social work majors have the option of adding one credit of service learning to each practice class.

Seniors complete a 500-hour agency placement in their final semester. They must meet field entrance requirements before being admitted to SOCWK 418 Field Instruction.

Students are advised that licensure in social work requires a criminal background check. In addition, many internship agencies require background checks and drug screening to be admitted as a student intern.

Admission Requirements
Students may provisionally declare a social work major early in their academic careers at Ashland University. However, in accordance with requirements set forth by the Council on Social Work Education, the Social Work Program conducts an admission-to-the-major process which must be successfully completed before the student is permitted to proceed with taking SOCWK 310. In order for a student to be considered for admission to the major, the following requirements must be met:
1. A course grade of C or better in SOCWK 221 (Introduction to Social Work) or an equivalent transfer course approved by the Social Work Program;
2. A cumulative GPA of 2.25;
3. Completion of an application packet that contains the following: a) signed Application for Admission to the Major; b) signed Student Agreement; c) current transcript; and d) autobiographical summary completed according to program guidelines;
4. Three written references;
5. Completion of an interview conducted by social work faculty (Note: a student who transfers to Ashland University as a junior or who changes his or her major to social work during their sophomore year may take SOCWK 221 during the same semester that SOCWK 310 is taken with the program’s permission, and may be admitted on a conditional basis.)

Student Honor Society

Epsilon Tau chapter of the Phi Alpha National Social Work Honor Society honors senior social work majors who have attained excellence of scholarship and distinction of achievement as students of social work. Requirements include an overall GPA of 3.25 with a 3.4 GPA in required social work courses.

Description of Major

Social work is an action-oriented, value-based profession that assists people in society who are facing a variety of social problems. The social work major is designed to give students an understanding of human functioning in contemporary society, the challenges and problems people face, and the social policies and services designed to help them. The program's faculty creatively engages and challenges students in an educational process which prepares them for professional practice, graduate education, and for leadership roles in the social work profession. Students develop an awareness of the interaction of biological, psychological, and social influences on human behavior within the social environment, an understanding of the impact of prejudice, discrimination, and oppression on at-risk groups within society, and an appreciation of and dedication to working for social, political, and economic justice. Social workers also work with clients of all ages in a variety of settings including mental health centers, schools, hospitals, social service agencies, correctional facilities, and programs serving older adults.

Degree Requirements

Assessment – All social work majors with graduating senior status are required to participate at year's end in the department's Montana Social Work Competence Exam and the Field Instructor's Evaluation, which are elements of the assessment process.

Bachelor of Science in Social Work

This degree is built upon a strong liberal arts base that includes courses from several disciplines. Because the credit hours for the core curriculum and the prerequisites total more than 60 hours, social work is considered a comprehensive major. No minor is required, but some students may choose to pursue a minor in a related field of interest. The required social work major courses must be taken in the specified sequence. To assure completion of the program in four years, a student interested in the social work major should meet with a social work faculty adviser in the spring of his or her freshman year.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCWK 221 Intro. to Social Work</td>
<td>3</td>
<td>SOC 111, PSYC 101 or concurrent</td>
</tr>
<tr>
<td>SOCWK 230 Global Human Rights</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 250 Found. of Social Welfare</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 304 Human Behavior Across Lifespan</td>
<td>3</td>
<td>BIO 100, SOCWK 221 or Soph. Stat.</td>
</tr>
<tr>
<td>SOCWK 306 Social Environments &amp; Human Behavior</td>
<td>3</td>
<td>SOCWK 304; SOC 301</td>
</tr>
<tr>
<td>SOCWK 310 Social Work Practice I</td>
<td>3</td>
<td>SOCWK 221 or Dept. Perm.</td>
</tr>
<tr>
<td>SOCWK 312 Social Work Practice II</td>
<td>3</td>
<td>SOCWK 304, 310</td>
</tr>
<tr>
<td>SOCWK 408 Soc. Policy Devel./Anal.</td>
<td>3</td>
<td>SOCWK 221, 250</td>
</tr>
<tr>
<td>SOCWK 412 Soc. Work Com. Practice</td>
<td>3</td>
<td>SOCWK 306, 312, SOC 225</td>
</tr>
<tr>
<td>SOCWK 417 Pre-Practicum Seminar</td>
<td>1</td>
<td>SOCWK 306, 312; 408 &amp; 412 pre-or co-requisites</td>
</tr>
<tr>
<td>SOCWK 418 Field Instruction</td>
<td>12</td>
<td>All SOCWK Academic Courses; 419 co-requisites</td>
</tr>
<tr>
<td>SOCWK 419 Field Seminar</td>
<td>3</td>
<td>SOCWK 419; 418 co-req.</td>
</tr>
<tr>
<td>SOCWK 460 Res. Meth. In Soc. Sci.</td>
<td>3</td>
<td>MATH 208, SOC 111</td>
</tr>
<tr>
<td>BIO 100 Human Biology</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>MATH 208 Elementary Statistics</td>
<td>3</td>
<td>MATH 100 or ACT 18 or SAT 480</td>
</tr>
<tr>
<td>PSYC 101 General Psychology I</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOC 111 Principles of Sociology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOC 225 Contemp. Social Problems</td>
<td>3</td>
<td>SOC 111</td>
</tr>
<tr>
<td>SOC 301 Race, Ethnic &amp; Minority Issues</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Electives (choose 3 courses below): *</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>PSYC 218 Adolescent Psychology</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 264 Child Development</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOC 340 Marriage &amp; Family</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOC 355 Human Sexuality</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 265 Parent-Child Relationships</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 305 Family Violence</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 320 Topics (may be repeated)</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
</table>
SOCWK 323 Later Adulthood in the Family Context (3) None
SOCWK 324 Working with Older Adults (3) None
SOCWK 330 International Perspectives on Women (3) None
SOCWK 350 Death and Dying (3) None

* Other options exist for elective credit. See your advisor

Plus Institutional Baccalaureate Degree requirements.

Minor in Gerontology
See Nursing area.

Child and Family Studies Minor

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCWK 265 Parent-Child Relationships</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 304 Human Behavior Across Lifespan</td>
<td>3</td>
<td>BIO 100, SOCWK 221 or Soph. Stat.</td>
</tr>
<tr>
<td>SOC 340 Marriage &amp; Family Relationships</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Choose 6 hours from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SOCWK 305 Family Violence</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 323 Later Adulthood in the Family Context</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOCWK 350 Death &amp; Dying</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 218 Psychology of Adolescence</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>PSYC 264 Child Development</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>SOC 355 Human Sexuality</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
</table>

Social Work Courses and Descriptions
See Course Descriptions section of catalog.
Theatre
Department of Theatre
The College of Arts and Sciences

Chair
Teresa Durbin-Ames, Associate Professor of Theatre; Director

Faculty
Sarah Russell, Assistant Professor of Theatre, Designer
J. Michael Desper, Technical Director

Degrees Offered
Bachelor of Arts

Mission
The Department of Theatre educates and prepares undergraduate students for careers in professional theatre. We are committed to providing students with a solid general theatre foundation which includes courses in acting, dance, design, directing, dramatic literature, history, stagecraft, and theory. In these foundation courses, the fundamental skills and tools are provided which enable students to work in theatre. As a department in the College of Arts and Sciences, we also provide general education courses designed to foster an aesthetic sensibility and appreciation of theatre as an art as well as an understanding of the relationship between the theatre and culture and society in which it is created and performed. We are committed to providing opportunities for students to develop and practice skills learned in the classroom in the laboratory setting of our production program enabling them to develop as performers, directors, technicians, and designers. We prepare students who are effective written, oral, and visual communicators as evidenced in research papers and class assignments, presentations and performances, and set, costume and lighting designs. We are committed to instilling in students a sense of professionalism, discipline, and accountability expected of theatre artists.

Student Learning Outcomes
Students graduating with a major in theatre will be able to:
1. Demonstrate a common performance vocabulary;
2. Demonstrate a disciplinary knowledge base they can apply toward their individual creative work;
3. Evaluate and utilize appropriate tools for creative and scholarly theatre research including, but not limited to, electronic and paper sources, primary and secondary sources, and experiential research opportunities;
4. Analyze a script for the purpose of theatrical production;
5. Apply concepts, theories, and methodologies in their creative work and explain their choices in a critical, creative, and objective way;
6. Conceive, plan, prepare, and present a theatrical event for the benefit of an audience and reflect on the process and its impact on them and their audience; and
7. Demonstrate interview and audition skills appropriate for work in professional theatre.
8. Demonstrate discipline, dedication, and respect appropriate to the collaborative process of creating theatre.

Theatre Facilities and Equipment
The theatre program is the primary resident of the Hugo Young Theatre, a 730-seat proscenium house. The Studio Theatre is a 100-seat thrust playing space. Storage facilities adjacent to Hugo Young house stock in costumes, scenery and lighting equipment. A fully equipped scene shop is immediately adjacent to the Hugo Young stage. A costume shop and additional scenery storage are located within a short distance of the scene shop.

Student Honor Society
Alpha Psi Omega, a national honor society in theatre, honors students who have excelled in acting, directing, production and radio drama. Membership by application and review.

Description of Majors
Theatre majors take foundation courses in all areas including performance, design, and theatre history in an effort to create graduates who are "whole theatre artists." In addition to the foundation courses, majors select tracks to concentrate in the areas of design/tech, acting/directing, musical theatre, or general theatre. All majors are encouraged to develop skills in more than one area and to hone those skills through our production program, the laboratory component of our curriculum, as well as with summer internships at professional theatres. Actors have the opportunity to stitch costumes, hang lights, and paint scenery, while designers may build sets or act. Graduates are prepared for graduate school or professional work in regional theatre.

Degree Requirements
Assessment – Assignments from theatre classes are used to assess Student Learning Outcomes for all theatre majors each year. Theatre majors also participate in Assessment Auditions and Interviews each Spring.

Majors: Theatre majors are required to successfully complete eight (8) semesters of TH 100 Theatre Practicum and six (6) semesters of TH 150 Theatre Production Laboratory.

Minors: Theatre minors are required to successfully complete four (4) semesters of TH 100 Theatre Practicum and three (3) semesters of TH 150 Theatre Production Laboratory.
Bachelor of Arts with a major in Theatre

**FOUNDATION COURSES**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 100 Theatre Practicum (8 sem)</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>TH 150 Theatre Production Lab.</td>
<td>1/1/1/1/1/1</td>
<td>None</td>
</tr>
<tr>
<td>TH 204 Script Analysis</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 206 Intro. to Technical Theatre</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 207 Visual Art of Theatre</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 211 Basic Acting Technique</td>
<td>3</td>
<td>Theatre major or minor</td>
</tr>
<tr>
<td>TH 404 Modern Dramatic Styles</td>
<td>3</td>
<td>TH 204; 2 from 418, 419, 420</td>
</tr>
<tr>
<td>TH 411 Directing I</td>
<td>3</td>
<td>TH 211 or 212</td>
</tr>
<tr>
<td>TH 418 History of the Theatre I</td>
<td>3</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 419 History of the Theatre II</td>
<td>3</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 420 History of the Theatre III</td>
<td>3</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 499 Senior Project</td>
<td>3</td>
<td>Sr. Status</td>
</tr>
</tbody>
</table>

36 hrs.

Plus one of the following tracks: 15

51 hrs.

**Plus Institutional Baccalaureate Degree Requirements.**

**ACTING TRACK**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 205 Voice and Articulation</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 212 Building Acting Technique</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 313 Scene Study</td>
<td>3</td>
<td>TH 212</td>
</tr>
<tr>
<td>TH 314 Acting Theory/Adv. Scene St.</td>
<td>3</td>
<td>TH 211</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH 305 Topics in Perf.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>TH 405 Musical Theatre Perf.</td>
<td>(3)</td>
<td>TH 211; MUSIC 212, 2 semesters of MUSIC 140</td>
</tr>
<tr>
<td>TH 412 Directing II</td>
<td>(3)</td>
<td>TH 411</td>
</tr>
</tbody>
</table>

**DESIGN/TECHNICAL TRACK**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 15 credits from:</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>TH 222 Stage Make-up</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>TH 306 Topics in Theatre Design</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>TH 316 Advanced Scene Design</td>
<td>(3)</td>
<td>TH 206, 207</td>
</tr>
<tr>
<td>TH 317 Adv. Lighting Design</td>
<td>(3)</td>
<td>TH 206, 207</td>
</tr>
<tr>
<td>TH 322 Adv. Costume Design</td>
<td>(3)</td>
<td>TH 206, 207</td>
</tr>
<tr>
<td>TH 325 Theatrical Design Sem.</td>
<td>(3)</td>
<td>TH 316 or 317 or 322</td>
</tr>
<tr>
<td>TH 425 Stage Management</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
</table>

**GENERAL THEATRE TRACK**

Choose 15 credits from any TH course 300-level or above

**MUSICAL THEATRE TRACK**

Note: The minor taken with this track of the major must be the Applied Music minor (see Music).

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 109 Stage Movement/Dance I</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>TH 110 Stage Movement/Dance II</td>
<td>1</td>
<td>TH 109</td>
</tr>
<tr>
<td>TH 209 Stage Movement/Dance III</td>
<td>1</td>
<td>TH 110</td>
</tr>
<tr>
<td>TH 212 Building Acting Tech.</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 303 American Musical Theatre</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 405 Musical Theatre Perf.</td>
<td>3</td>
<td>TH 211, MUSIC 212, 2 semesters of MUSIC 140</td>
</tr>
</tbody>
</table>

Choose one from the following: 3

TH 205 Voice and Articulation (3) | None |
TH 305 Topics in Perf. (3) | None |
TH 313 Scene Study (3) | TH 212 |
TH 314 Act. Theory/Adv. Sen St (3) | TH 211 |

**Minor in Theatre**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Hrs.</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 100 Theatre Practicum (4 sem.)</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>TH 150 Theatre Production Lab.</td>
<td>1/1/1</td>
<td>None</td>
</tr>
<tr>
<td>TH 204 Script Analysis</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 207 Visual Art of Theatre</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TH 211 Basic Acting Technique</td>
<td>3</td>
<td>Theatre major or minor</td>
</tr>
</tbody>
</table>

Choose 9 credits: 9

TH 203 Theatre Aesthetics (3) | None |
TH 205 Voice & Articulation (3) | None |
TH 206 Intro. To Technical Theatre (3) | None |
TH 212 Building Acting Technique (3) | None |
TH 214 Acting for Non-majors (3) | None |
TH 222 Stage Make-Up (3) | None |
TH 303 American Music Theatre (3) | None |
TH 305 Topics in Performance (3) | None |
TH 306 Topics in Design (3) | None |
TH 313 Scene Study (3) | TH 212 |
TH 314 Acting Theory & Adv. Scene Design (3) | TH 211 |

TH 316 Adv. Scene Design (3) | TH 206, 207 |
TH 317 Adv. Lighting Design (3) | TH 206, 207 |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 321</td>
<td>Theatre &amp; Arts Mgmt.</td>
<td>(3)</td>
<td>None</td>
</tr>
<tr>
<td>TH 322</td>
<td>Adv. Costume Design</td>
<td>(3)</td>
<td>TH 206, 207</td>
</tr>
<tr>
<td>TH 405</td>
<td>Musical Theatre Perf.</td>
<td>(3)</td>
<td>TH 211, MUSIC 212, 2 sem. Of Music 140</td>
</tr>
<tr>
<td>TH 411</td>
<td>Directing I</td>
<td>(3)</td>
<td>TH 211 or 212</td>
</tr>
<tr>
<td>TH 418</td>
<td>History of the Theatre I</td>
<td>(3)</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 419</td>
<td>History of the Theatre II</td>
<td>(3)</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 420</td>
<td>History of the Theatre III</td>
<td>(3)</td>
<td>TH 204</td>
</tr>
<tr>
<td>TH 425</td>
<td>Stage Management</td>
<td>(3)</td>
<td>None</td>
</tr>
</tbody>
</table>

21 hrs.

**Theatre Courses and Descriptions**

See Course Descriptions section of catalog.
Course Descriptions

Course Abbreviations
ACCT  Accounting
ART   Art
ATR  Athletic Training
BIO  Biology
BUS  Business (General)
CHEM Chemistry
CIS Coaching and Instruction in Sport
CJ  Criminal Justice
COM Communication Studies
CS  Computer Science
DIET  Dietetics
ECON Economics
EDCI Education Curriculum/Instruction
EDEC Education Early Childhood
EDFN Education Foundation
EDIS Educational Inclusive Services/Exceptional Learners
EDUC Education (General)
ENG  English
ENTP Entrepreneurship
EVS Environmental Science
EXS Exercise Science
FIN  Finance
FL  Foreign Languages
FM  Fashion Merchandising
FREN French
GEOL Geology
GER  German
HIST  History
HON Honors Program
HS  Health Sciences
HSCGH Community and Global Health
HSFH Family Health
HSM  Hospitality Management
IS Information Systems
JDM Journalism/Digital Media
LTN Latin
MATH Mathematics
MDS Multidisciplinary Studies
MGT  Management
MKT  Marketing
MUSIC Music
NUR  Nursing
PHIL Philosophy
PHYS Physics
POLSC Political Science
PORT Portuguese
PSYC Psychology
REC Recreation
REL Religion
SCM Supply Chain Management
SMG Sport Management
SOC Sociology
SOCWK Social Work
SPAN Spanish

Accounting (ACCT)

ACCT  201  FINANCIAL ACCOUNTING  3
Prerequisite: None
The first of a two-course sequence in basic accounting. This course develops an understanding of the basic elements of financial accounting. Students are introduced to accounting concepts, procedures, and terminology. Topics covered include processing of transactions through the accounting cycle, applying generally accepted accounting principles, and preparing and interpreting of financial statements.

ACCT  202  MANAGERIAL ACCOUNTING  3
Prerequisite: ACCT*201
The second of a two-course sequence in basic accounting. This course develops an understanding of the basic elements of managerial accounting. Students are introduced to accounting information for the purpose of making informed business decisions. Topics covered include the accounting information necessary for managers to plan operations, control activities, evaluate performance, and make decisions.

ACCT  205  ACCOUNTING INFORMATION SYSTEMS  3
Prerequisite: ACCT*201, IS*221
A study of the accounting information system as a component of an integrated enterprise system. The information system will be analyzed to identify weaknesses and recommend improvements to internal control. System documentation techniques are studied.

ACCT  206  FORENSIC ACCOUNTING  3
Prerequisite: ACCT*201
This course provides an introduction to the areas of forensic accounting and fraud investigation in organizations with an emphasis on its detection and prevention. It examines the nature and causes of financial and occupational fraud, ways to prevent and deter fraudulent conduct, and procedures for uncovering and investigating fraud.

ACCT  207  INTERMEDIATE ACCOUNTING I  3
Prerequisite: ACCT*201
A review of the fundamental accounting processes followed by a detailed analysis of the contents of the balance sheet, income statement and statement of cash flows.

ACCT  208  INTERMEDIATE ACCOUNTING II  3
Prerequisite: ACCT*207
A detailed analysis of financial reporting under Generally Accepted Accounting Principles. Emphasis is placed on the accounting treatment and disclosures required for balance sheet items (assets, liabilities and owner's equity).

ACCT  302  COST MANAGEMENT  3
Prerequisite: ACCT*202
An in-depth study of selected cost and management accounting topics. The purpose of the course is to provide future managers with the cost accounting methods used to determine product costs for internal, management, and external financial reporting.
ACCT 308  FEDERAL INCOME TAXATION OF INDIVIDUALS  3
Prerequisite: ACCT*201, IS*221
A study of federal income tax law as it relates to the individual taxpayer including gross income, exclusions, deductions, capital gains and losses, tax credits and the Alternative Minimum Tax.

ACCT 309  FEDERAL INCOME TAXATION OF BUSINESS  3
Prerequisite: ACCT*201, IS*221
A study of federal income tax law as applied to various forms of business entities, including sole proprietorships, C corporations, S corporations and partnerships.

ACCT 406  AUDITING AND PROFESSIONAL ETHICS AND RESPONSIBILITIES FOR ACCOUNTANTS  3
Prerequisite: ACCT*205, ACCT*207 and MATH*208
A study of auditing principles and procedures including the study of internal control to prevent fraud, the professional ethics and legal responsibilities of the public accountant and the preparation of working papers and reports.

ACCT 410  LAW AND PROFESSIONAL RESPONSIBILITY FOR ACCOUNTANTS  3
Prerequisite: MGT 401
This course is intended for students planning to sit for the CPA exam. The topical coverage is derived from that exam's content specifications and includes, but is not limited to: UCC Articles 2, 3, 7, and 9; securities regulations; other debtor-creditor relationships and bankruptcy; and the professional responsibilities and liabilities of CPAs.

ACCT 440  ADVANCED ACCOUNTING  3
Prerequisite: ACCT*208
A study of topical advanced accounting issues such as business combinations and consolidation accounting, accounting for international (i.e. foreign currency) transactions and translations, interim and segment reporting, governmental and not-for-profit accounting, and partnership accounting.

ACCT 453  SPECIAL TOPICS FOR ACCOUNTING  3
Prerequisite: ACCT*208
A course devoted to various topics related to current issues in accounting. May be repeated once for different topics with the approval of accounting faculty.

 ART 133  COLOR THEORY  3
Prerequisite: None
An exploration of both Munsell and Albers color theory systems, with an emphasis on the ways in which the elements of color interact in compositions. The focus of the course is developing a disciplined approach to the use of color, and gaining experience in the mixing and application of colors using acrylic paints. Students will examine the ways in which the properties of color affect the elements of design, specifically the illusion of space and light, and also the ways in which we receive and process color information.

ART 134  2-D DESIGN  3
Prerequisite: None
This course is an intense study of the principles of 2-D design aesthetics and processes. Students will learn how to use compositional devices such as line, value, texture, shape, balance, and rhythm to create successful designs.

ART 135  3-D DESIGN  3
Prerequisite: None
Introduces the fundamental sculptural design principles of space, line, shape, mass, texture, unity, balance, emphasis, and scale. The processes of linear, planer, modular and plastic construction will be undertaken. Emphasis will be on students discussing and understanding the principles of three-dimensional design as well as executing studio projects characterized by quality craft, successful composition, effective use of content, and appropriate context.

ART 140  FUNDAMENTALS OF DRAWING (NON MAJORS)  3
Prerequisite: Note: not open to students who have taken ART*141
This fundamental course provides a variety of approaches to improve individual skills in drawing. Attention to line, shape, value, texture, and perspective are used to develop an understanding of what we see in relation to how we represent them visually. For non-art majors. Meets Core credit for aesthetics.

ART 141  DRAWING I  3
Prerequisite: None
Acquaints students with the fundamental nature of the drawing process. Emphasis is on the observation and analysis of simple forms through a variety of approaches, such as gesture, contour, cross-contour, and value drawing. Introduces the student to such elements of form as proportion, shape, mass, light, and space, as well as compositional structure. Particular emphasis is placed upon the understanding of spatial devices, including linear perspective and various ways of using value and line weight to create and deny space.

ART 150  ART & IDEAS  3
Prerequisite: Note: not open to students who have taken ART*256 or ART*257
A combined visual and thematic introduction to Western art. The form and content of painting, sculpture, architecture, and graphics will be studied through a series of themes and purposes. Students will investigate the interplay of form and meaning of art objects from multiple eras through such themes as death and the macabre, entertainment, power and politics, religious beliefs, and landscape and the environment. The course introduces many of the issues associated with the visual arts including iconoclasm, restoration, aesthetic quarrels, and questions of cultural property. Meets Core credit for aesthetics.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 160</td>
<td>FUNDAMENTALS OF STUDIO ART</td>
<td>3</td>
</tr>
<tr>
<td>ART 160A CERAMICS</td>
<td></td>
<td></td>
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<tr>
<td>ART 160B PAINTING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 160C PRINTMAKING</td>
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<td></td>
</tr>
<tr>
<td>ART 160D SCULPTURE</td>
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<td></td>
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<tr>
<td>ART 160E DIGITAL ART</td>
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<td></td>
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<tr>
<td><strong>Prerequisite:</strong> None</td>
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</tr>
<tr>
<td>This course is an exploration of the processes and philosophies of various studio art disciplines. Using the study of traditional studio topics (Ceramics, Painting, Printmaking, Sculpture, or Digital Art - subjects will vary each semester), students will learn the principles of art aesthetics, studio processes, and a general history of the relevant discipline. This course is designed for non-art majors to fulfill institutional core requirements in aesthetics, and is not open to students who have taken ART 211, 261, 271, or 281 respectively. Students may take two different topics to fulfill Core aesthetics requirements, but they may not repeat the same topic for credit.</td>
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</tbody>
</table>

| ART 161     | FUNDAMENTALS OF STUDIO ART II                    | 3            |
| ART 161A CERAMICS |                              |              |
| ART 161B PAINTING      |                              |              |
| ART 161C PRINTMAKING   |                              |              |
| ART 161D SCULPTURE     |                              |              |
| **Prerequisite:** ART 160 in the appropriate studio area |              |
| This course is a continuation of the introduction to the aesthetic processes and philosophies of various studio art disciplines developed in Art 160. By studying more advanced problems in traditional studio topics (Ceramics, Painting, Printmaking, or Sculpture), students will become acquainted with the wide range of options, and the decisions necessary, of studio artists. The course delves more deeply into the visual art aesthetic, studio processes, and the general history of the relevant discipline. This course is designed for non-art majors to fulfill institutional Core requirements in aesthetics. |

| ART 204     | PHOTOGRAPHY                                     | 3            |
| **Prerequisite:** None |                                      |              |
| A course dealing with the process and principles of digital photography. Technical and aesthetic considerations will be explored. Adobe Photoshop will be the software used in this class and students are expected to provide their own digital camera. Meets Core credit for aesthetics. |

| ART 205     | SEQUENCING IN ART                               | 3            |
| **Prerequisite:** ART 204 |                                      |              |
| This course explores how groups of images called sequences are used in art. This is done through the study of filmmakers and fine artists who have focused on the use of sequence in their own work. The lecture component of this class is balanced by studio practice, during which students learn to convey conceptual meaning and aesthetic relationships through specific image arrangements in digital video and photographic mediums. |

| ART 206     | DIGITAL ART I                                   | 3            |
| **Prerequisite:** ART 134 |                                      |              |
| This course covers the fundamentals of computer technology and allows the student to explore a range of techniques using Adobe Photoshop, Adobe Illustrator, and QuarkXpress. The latest developments in the field of computer graphics will be covered where applicable. The course is structured to increase the students' understanding of metaphor in artistic production, increase the students' ability to create two-dimensional artworks using computers and their peripheral devices, and to discuss the ways contemporary artists use technology in art. |

| ART 211     | CERAMICS I                                      | 3            |
| **Prerequisite:** None |                                      |              |
| An introduction to wheel throwing and hand built processes necessary to the formation of functional and nonfunctional vessels. |

| ART 221     | ART EDUCATION: THEORY AND PRACTICE FOR EARLY AND MIDDLE GRADES | 3 |
| **Prerequisite:** None |                                      |              |
| Provides a comprehensive overview of the ideas and concepts that inform the contemporary teaching of art at the early and middle grade level. In addition, it provides hands-on experiences and practical information for the day-to-day procedures and management of early and middle grades classrooms. |

| ART 222     | ART EDUCATION: METHODS FOR EARLY CHILDHOOD       | 3            |
| **Prerequisite:** None |                                      |              |
| Focuses on the importance of the acquisition of visual art skills in the development of the very young. Provides an overview of methodologies, techniques, and practical knowledge to enable the early childhood educator to provide appropriate art experiences to their students. |

| ART 242     | DRAWING II                                      | 3            |
| **Prerequisite:** ART 141 |                                      |              |
| A continuation of approaches learned in Drawing I and incorporation of 2-D Design principles. Emphasis is placed on observation and analysis of more complex forms, value drawing, and successful integration of design in overall compositional form. Study of the human figure through the use of a live model will be included. |

| ART 256     | WESTERN ART I                                   | 3            |
| **Prerequisite:** None |                                      |              |
| This course examines the history of art as it appeared in different periods and cultural contexts from the Old Stone Age to the Medieval Period, specifically the architecture, painting, and sculpture in terms of style and technique, and the ways in which they evolved. The course also examines the position of art and of the artist in society, the ways in which various cultures have used the visual arts, and the ideas which art expressed. |

| ART 257     | WESTERN ART II                                  | 3            |
| **Prerequisite:** None |                                      |              |
| This course examines the history of Western Art as it appeared in different periods and cultural contexts from the Renaissance to the present day, specifically the architecture, painting, sculpture, and graphics in terms of style and technique, and the ways in which they evolved. It also examines the position of art and of the artist in society, the ways in which various cultures have used the visual arts, and the ideas which art expressed. The focus will be on the art of Europe, but special attention will be given to the contributions of American artists to the history of art during the 19th and 20th centuries. |

<p>| ART 261     | PAINTING I                                      | 3            |
| <strong>Prerequisite:</strong> ART 141 |                                      |              |
| This course acquaints the student with the fundamentals of the painting process. The basics of color theory and drawing are applied in a series of observational paintings in a variety of styles and techniques. Oil and acrylic painting media are explored in depth, as is the nature of the painted mark and the painted surface. Students also learn about solvents and mediums, and have experience making supports and grounds. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 271</td>
<td>PRINTMAKING I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to a variety of printmaking techniques and discussion of historical and contemporary issues in printmaking. Semesters will rotate among relief methods, intaglio methods, and planographic methods.</td>
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</tr>
<tr>
<td>ART 281</td>
<td>SCULPTURE I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
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<td></td>
</tr>
<tr>
<td>This course introduces the fundamental sculptural processes of addition, subtraction, and substitution. Emphasis will be on executing, understanding and discussing quality craft, successful composition, productive conceptualization and creative problem solving. Students will explore various sculptural methods which may include steel fabrication, wood construction, plaster construction, assemblage and mold-making.</td>
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<tr>
<td>ART 307</td>
<td>DIGITAL ART II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART*206</td>
<td></td>
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<tr>
<td>This course emphasizes time-based media design. Students will be introduced to a range of basic HTML and multimedia content authoring tools in a series of class demonstrations and workshops. Contemporary theory examining the cultural impact and history of the Internet will be discussed. Students will be encouraged to develop simple 2D animation and basic web design skills. Programs used will be Dreamweaver, Photoshop, Illustrator, QuarkXpress, Flash and Macromedia Director. Special emphasis will be placed upon art on the Internet and the World Wide Web as a means for visual communication. Students will integrate their knowledge of typography, illustration, photography, and other traditional print media with the time-based and sequencing capabilities of the web.</td>
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<tr>
<td>ART 312</td>
<td>CERAMICS II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART*211</td>
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<tr>
<td>A continued exploration of both wheel thrown and hand built vessels with emphasis on form. Various techniques of glaze formulation and approaches to firings will be investigated.</td>
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<tr>
<td>ART 333</td>
<td>PRINT DESIGN</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART<em>133, ART</em>134</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course is an introduction to the elements and principles of print design. The focus will be on organizing and integrating type and images into visually compelling layouts for affective communication. Concept development, client base, and production procedures will be covered. The Adobe Suite will be utilized with a focus on Adobe In Design.</td>
<td></td>
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<tr>
<td>ART 335</td>
<td>TYPOGRAPHY AND TYPOLOGY</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART<em>133, ART</em>134</td>
<td></td>
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<tr>
<td>Through a combination of lecture and studio work students will be introduced to the fundamentals of typography in relation to various design applications. The course will cover the history of typography, the study of letterforms, typeface selection, classifications, and terms.</td>
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</tr>
<tr>
<td>ART 337</td>
<td>DESIGN FOR THE WEB</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART<em>133, ART</em>134</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course will provide a basic understanding of methods and techniques used to construct, design and maintain a web site. Discussion of design theory will address the principles behind successful visual communication. Current software and programming languages will be taught in relation to contemporary site construction. Web site maintenance will cover the preliminary organization and ongoing steps involved with keeping a web site current and up-to-date.</td>
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</tr>
<tr>
<td>ART 343</td>
<td>DRAWING III</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART*242</td>
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<td></td>
</tr>
<tr>
<td>Advanced studio problems in drawing are individually established and implemented according to content, process, and formal analysis. Focus will be on the development of a personal style and direction.</td>
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<tr>
<td>ART 344</td>
<td>DRAWING IV</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART*343</td>
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<td></td>
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<tr>
<td>Students will continue to develop the techniques and concepts investigated in Drawing III. A continued emphasis on individual growth and analysis of formal structure will be essential as the student focuses on a cohesive body of work.</td>
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<tr>
<td>ART 345</td>
<td>DRAWING V</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART*344</td>
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<tr>
<td>Students will continue to apply the techniques and concepts investigated in Drawing III and IV. The student will focus on a cohesive body of work that exemplifies a refinement that is both visual and technical.</td>
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</tr>
<tr>
<td>ART 346</td>
<td>ILLUSTRATION</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART<em>134, ART</em>141, ART*242</td>
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<tr>
<td>This course serves as an introduction to a variety of illustration techniques and practices.</td>
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<tr>
<td>ART 352</td>
<td>ART OF THE RENAISSANCE</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
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<td></td>
</tr>
<tr>
<td>A review of late medieval, Byzantine painting and sculpture precedes a study of early Italian art of the fifteenth century. The development of the sixteenth century is traced through the work of da Vinci, Michelangelo, and Raphael. Covers how societal and church concerns affected the development of the late Renaissance style. The art of Italy and that of Flanders and Germany are contrasted.</td>
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<tr>
<td>ART 353</td>
<td>BAROQUE AND ROCOCO ART</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
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<tr>
<td>The development of seventeenth century baroque art is traced through the painting and sculpture of Italy, France, Spain, England and the northern and southern Netherlands. The eighteenth century or rococo style is viewed primarily as a modification of the baroque with emphasis on the personal, the aristocratic and the decorative. Study of the period continues through the classical revival of the Louis XVI period to the French revolution.</td>
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<tr>
<td>ART 354</td>
<td>19TH CENTURY ART</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>This course examines the major artistic movements and stylistic developments in Europe from ca. 1789-1900. Major movements include Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, and Symbolism.</td>
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<tr>
<td>ART 356</td>
<td>20TH CENTURY ART</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> None</td>
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<td></td>
</tr>
<tr>
<td>This course examines the major artistic movements and stylistic developments in both Europe and the United States from 1900 to 1999. The rise of Modernism as well as Post-Modernist trends will be considered. Major movements include Cubism, Surrealism, Abstract Expressionism, Pop Art, Minimalism, and Neo-Expressionism.</td>
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<tr>
<td>ART 357</td>
<td>HISTORY OF DESIGN</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong> ART<em>133, ART</em>134, ART*135</td>
<td></td>
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</tr>
<tr>
<td>A survey of graphic communication introduced by formal analysis of major works of graphic design within the context of their time and influence on later works. This course highlights significant events in communication and graphic design throughout history.</td>
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</tbody>
</table>
ART 362 PAINTING II 3
Prerequisite: ART*261
Students use the basic techniques developed in Painting I to begin to establish a personal investigation. Students are expected to do a series of experiments aimed at building a body of consistent work. The technical and formal aspects of the painting process are augmented by critique and class discussion as students identify conceptual concerns and begin to tie their studio practice to the exploration of content.

ART 372 PRINTMAKING II 3
Prerequisite: ART*271
Emphasis is placed on development of the technical skills introduced in Printmaking I. One or two processes will be explored from the categories of monoprint, wood/linocut, engraving, etching, calligraphy, serigraphy and lithography.

ART 382 SCULPTURE II 3
Prerequisite: ART*281
This course requires students to pick a specific sculptural material and to thoroughly examine its properties, qualities and characteristics for three-dimensional expression. This will allow the student to produce a body of work that reflects personal interest. Emphasis will be on experimentation, the development of technical skill, and creative problem solving.

ART 408 DIGITAL ART III 3
Prerequisite: ART*307
This course emphasizes more advanced problems in digital art. Students will be encouraged to establish a unique artistic practice while developing a cohesive body of work. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations.

ART 409 DIGITAL ART IV 3
Prerequisite: ART*408
This course emphasizes more advanced problems in digital art. Students will be encouraged to build and expand upon their artistic practice and body of work that was developed in ART 408. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations.

ART 410 DIGITAL ART V 3
Prerequisite: ART*409
This course emphasizes more advanced problems in digital art. Artistic investigations from previous classes coupled with continued exploration and growth should allow the students to achieve a highly developed body of work. Considerable responsibility and autonomy will be required of the students. Students are encouraged to work on out-of-the-box experiments with digital tools such as installations, mixed media, and alternative presentations. A clear defense of individualized working practice and content should be established.

ART 413 CERAMICS III 3
Prerequisite: ART*312
An advanced course in which the development of throwing skills, glaze formulation, and firing proficiency is emphasized. The student is encouraged to develop a personal experience of form and direction.

ART 414 CERAMICS IV 3
Prerequisite: ART*413
Students will continue to make advanced in wheel-thrown and hand-built vessels while furthering their exploration of form and style. Students in this course will take on more independent investigations into glaze formulation and application and continue experimenting in a variety of approaches to firings. A more thorough evaluation of historical and contemporary issues in ceramics will be addressed.

ART 415 CERAMICS V 3
Prerequisite: ART*414
This course continues the progress made in Ceramics III and IV with students expected to clarify their vision for a cohesive body of work. A refinement of sophistication and vision should accompany the body of work. BFA students taking this course in conjunction with ART 490 should align their body of work with the ideas developed in the thesis abstract.

ART 432 TEACHING ART, GRADES 7-12 3
Prerequisite: ART*134, ART*141
Clinical Hours: 4 A course designed to provide the student with classroom instructional skills, methods, and strategies in teaching grades 7-12. This class is to be completed successfully prior to the Internship.

ART 452 TOPICS IN AMERICAN ART 3
Prerequisite: None
An in-depth study of major movements and ideas in contemporary American art. Some topics have included: art and popular culture of the 1960s; art and technology; and American folk art.

ART 463 PAINTING III 3
Prerequisite: ART*362
Students continue to develop their investigations in a medium and style appropriate to their content. Emphasis is placed on consistency of approach and sensitivity to materials and the creative process. The ability to write about one's work becomes increasingly important. Students are expected to maintain a sustained output of work.

ART 464 PAINTING IV 3
Prerequisite: ART*463
Students further refine their skills appropriate to their artistic intent in preparation for the creation of an exhibition-ready body of work. As they develop their painting investigations and their art writing skills, students are challenged to develop the conceptual nuances that characterize the professional fine artist. Issues of scale, style, and viewer interpretation become increasingly important.

ART 465 PAINTING V 3
Prerequisite: ART*464
In ongoing studio investigations, the student develops the capability to produce a body of exhibition-quality work. All elements of the artistic process, including the formal, the conceptual, and the expository, should coalesce to support the body of work. When taken in conjunction with ART 490, this course represents the visual reflection of the ideas developed in the thesis abstract.

ART 473 PRINTMAKING III 3
Prerequisite: ART*372
Advanced studio problems in printmaking are individually established and implemented according to content, process, and formal analysis. Focus will be on development of personal style and direction.
ART 474  PRINTMAKING IV  3
Prerequisite: ART*473
A continuation of Printmaking III that further establishes and implements advanced studio problems in printmaking according to content, process, and formal analysis. Increased focus will be on development of personal style and direction.

ART 475  PRINTMAKING V  3
Prerequisite: ART*474
Expanding on the progress of Printmaking III and IV, this course pushes students to establish the capability to produce exhibition-quality work by further addressing advanced studio problems in printmaking according to content, process, and formal analysis. A continued refinement of personal style and direction will be expected.

ART 483  SCULPTURE III  3
Prerequisite: ART*482
This course focuses on the relationship between idea, form and material. Students will be required to produce a series of sculptures that explore one specific personal or social issue of their choice. Metaphor and symbolism will be examined and used as a vehicle for communicating meaning. Emphasis will be placed on the unity of the body of work being produced as well as on clarity, craftsmanship and presentation.

ART 484  SCULPTURE IV  3
Prerequisite: ART*483
Students will further refine their ideas on the relationship between idea, form, and material. Students will be required to produce a series of sculptures that explore one specific personal or social issue of their choice. It will be expected that part of their refinement will include more serious metaphor and symbolism as students continue to expand the ability to communicate meaning through their work. Emphasis will be placed on the unity of the body of work being produced as well as on clarity, craftsmanship, and presentation.

ART 485  SCULPTURE V  3
Prerequisite: ART*484
This course will further challenge the student to create a cohesive body of work that exemplifies the culminating efforts of the preceding sculpture courses. The expectations on craftsmanship and artistic refinement are increased, along with those pertaining to the student's understanding of their relationship to the art world. For BFA students taking this course in conjunction with ART 490, their body of work should represent the visual reflection of the ideas developed in the thesis abstract.

ART 490  MAJOR THESIS PREPARATORY  1
Prerequisite: BFA Status; twelve hours of studio concentration
This course prepares students for the thesis writing process. The instructor of the student's major area will serve as the instructor of record for the class, assisted by the thesis committee, composed of the instructor of the student's minor along with two other faculty members from the Art Department and one faculty member from outside the Art Department of the student's choosing. This committee will oversee the development of research strategies and the preparation and development of thesis drafts, including the formulation of the thesis statement, research into historical and contemporary influences, and the development of an abstract and rough draft of the thesis.

ART 491  MAJOR THESIS  1
Prerequisite: ART*490; to run concurrently with ART*492 Studio Capstone
This course formulates the ideas and drafts of Major Thesis Preparatory into a final written thesis, and provides for its oral defense in conjunction with the student's senior exhibition. Working with the same committee as in Major Thesis Preparatory, students refine their ideas about, and approaches to, the artistic process into a document that references historical and contemporary influences.

ART 492  STUDIO CAPSTONE  3
Prerequisite: BFA Status; twelve hours of studio concentration
This is the final course of the BFA student's concentration. Students are expected to engage in a rigorous refinement of the personal style and direction previously established in their major area, and to develop a body of work for their senior exhibition. Five sections are offered each semester (Ceramics, Computer Art, Painting, Printmaking, and Sculpture) as necessary.

ART 495  CONTEMPORARY ISSUES AND PRACTICES  3
Prerequisite: Junior status
Through critique sessions, reading, writing and discussion, this course provides a forum for the examination of the theories of contemporary art making and helps students to evaluate critically and conceptualize their own artistic production. Students will be required to think analytically and to articulate their perceptions of works of art verbally and in writing. This course also examines the role of the artist in society and prepares students for their role as participants in contemporary cultural production by focusing on presentation skills and professionalism.

ART 497  SENIOR SEMINAR  1
Prerequisite: None
This course introduces guidelines for portfolios, resumes, and professional display and documentation of artwork. It is taken in conjunction with the senior exhibition requirement. Students must pass the exhibition requirement of this course to graduate. Graded S/U.

Athletic Training (ATR)

ATR 165  PRINCIPLES OF ATHLETIC TRAINING  3
Prerequisite: None
Provides an overview of the sports medicine team and the components of a comprehensive athletic health care program including preseason examinations and screenings. Injury prevention, basic injury description and management, training room management, and the application of taping, wrapping, protective padding and first aid modalities will also be covered in the course.

ATR 166  CPR/AED FOR THE PROFESSIONAL RESCUE  1
Prerequisite: None
A concentrated study of preventive and remedial techniques related to safety and first aid. Successful completion of the course may certify one in CPR/AED for the Professional Rescuer and Health Care Provider and Standard First Aid.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ATR 167</td>
<td>BASIC SKILLS IN ATHLETIC TRAINING</td>
<td>1</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*165 or concurrent</strong></td>
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<tr>
<td></td>
<td>The first clinical experience in the AT program. Content will include basic skills involved with emergency care procedures, transportation, taping and wrapping, custom protective padding and emergency splinting.</td>
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<tr>
<td>ATR 170</td>
<td>FUNCTIONAL &amp; PALPATION ANATOMY</td>
<td>2</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>None</strong></td>
<td></td>
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<tr>
<td></td>
<td>A detailed exploration of musculoskeletal anatomy with an emphasis on palpation skills, bony landmarks and muscle/origin/insertion/action</td>
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<tr>
<td>ATR 270</td>
<td>AT CLINICAL FIELD EXPERIENCE I</td>
<td>2</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*270</strong></td>
<td></td>
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<tr>
<td></td>
<td>Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Location of the field experience will be determined by the student's career goals and academic preparation.</td>
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<tr>
<td>ATR 271</td>
<td>AT CLINICAL FIELD EXPERIENCE II</td>
<td>2</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*270</strong></td>
<td></td>
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<tr>
<td></td>
<td>Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270 by adding upper extremity clinical application to the experience. Location of the field experience will be determined by the student's career goals and academic preparation.</td>
<td></td>
</tr>
<tr>
<td>ATR 272</td>
<td>INJURY RECOGNITION &amp; MANAGEMENT OF THE LOWER EXTREMITY</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>None</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prepares students in the evaluation, recognition, and management of athletic injuries to the lower extremity.</td>
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<tr>
<td>ATR 273</td>
<td>CLINICAL EXPERIENCE IN ATHLETIC TRAINING I</td>
<td>1</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR<em>167; ATR</em>272 concurrently</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Develop the student's clinical proficiencies in the evaluation, recognition, and management of athletic injuries to the lower extremities.</td>
<td></td>
</tr>
<tr>
<td>ATR 274</td>
<td>INJURY RECOGNITION &amp; MANAGEMENT OF THE UPPER EXTREMITY</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>None</strong></td>
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<tr>
<td></td>
<td>Prepares students in the evaluation, recognition, and management of athletic injuries to the upper extremity.</td>
<td></td>
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<tr>
<td>ATR 275</td>
<td>CLINICAL EXPERIENCES IN ATHLETIC TRAINING II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR<em>167, ATR</em>274 concurrently</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Develop the student's clinical proficiencies in the evaluation, recognition, and management of athletic injuries to the upper extremity.</td>
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</tr>
<tr>
<td>ATR 279</td>
<td>THERAPEUTIC INTERVENTIONS I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>None</strong></td>
<td></td>
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<tr>
<td></td>
<td>Provides students with the foundational knowledge in the theory, application, and treatment protocols for the lower extremity, which includes a broad range of interventions, methods, techniques, equipment, activities using body movement, and medications. Modalities will also be covered.</td>
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<tr>
<td>ATR 277</td>
<td>AT CLINICAL FIELD EXPERIENCE III</td>
<td>2</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*271</strong></td>
<td></td>
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<tr>
<td></td>
<td>Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270 and 271 by adding therapeutic exercise and rehabilitation clinical application to the experience. Location of the field experience will be determined by the student's career goals and academic preparation.</td>
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<tr>
<td>ATR 375</td>
<td>AT CLINICAL FIELD EXPERIENCE IV</td>
<td>2</td>
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<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*373</strong></td>
<td></td>
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<tr>
<td></td>
<td>Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 270, 271, and 373 by adding therapeutic exercise and rehabilitation clinical application to the experience, focusing primarily on the upper extremity. Location of the field experience will be determined by the student's career goals and academic preparation.</td>
<td></td>
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<tr>
<td>ATR 376</td>
<td>THERAPEUTIC INTERVENTIONS III</td>
<td>4</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>None</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provides students with the foundational knowledge in the theory, application, and treatment protocols for the upper extremity, which includes a broad range of interventions, methods, techniques, equipment, activities using body movement, and medications.</td>
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<tr>
<td>ATR 420</td>
<td>ORGANIZATION AND ADMINISTRATION IN ATHLETIC TRAINING</td>
<td>3</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>Intro course (ATR<em>165 or SMG</em>161)</strong></td>
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<tr>
<td></td>
<td>The basic administrative aspects of a comprehensive athletic training program. Covers competencies in the content areas of risk management, health care administration, and professional development and responsibilities.</td>
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<tr>
<td>ATR 471</td>
<td>AT CLINICAL FIELD EXPERIENCE V</td>
<td>2</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td><strong>ATR*375</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 373 and 375 through the clinical application of a patient progression plan for injuries and/or illnesses. Location of the field experience will be determined by the student's career goals and academic preparation.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
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<tr>
<td>ATR 472</td>
<td>AT CLINICAL FIELD EXPERIENCE VI</td>
<td>2</td>
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<tr>
<td></td>
<td>Prerequisite: ATR*471</td>
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</tbody>
</table>

Provides an opportunity to apply the theoretical knowledge gained in programmatic coursework. Builds from AT 373, 375, and 471 through the clinical application of a patient progression plan for injuries and/or illnesses. Location of the field experience will be determined by the student's career goals and academic preparation.

**Biology (BIO)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 100</td>
<td>HUMAN BIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: None</td>
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</tbody>
</table>

This course addresses the questions of what it means for cells to be alive, and how individual cells are integrated into a complex, self-regulating human organism capable of survival in its own right. This includes an examination of the functions of cells, the idea of homeostasis (physiological equilibrium) and the mechanisms of disease. Three lectures and one two-hour laboratory per week. This course does not count toward a biology major or minor. Offered every semester and online during the summer. Meets Core credit for natural sciences.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 107</td>
<td>PLANTS AND CIVILIZATION</td>
<td>3</td>
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<td></td>
<td>Prerequisite: None</td>
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</table>

An examination from a global perspective of the role that plants have played in the history of civilization, with consideration of the biology and chemistry of plants, their availability in different parts of the world, and their uses for food, fiber, beverages, and medicine. Current issues in agriculture and plant biotechnology are also considered. Two lecture-discussion periods and one two-hour laboratory per week. This course does not count toward the biology major or minor. Meets Core Natural Science and Border Crossing requirements. Offered each Spring.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 110</td>
<td>ECOLOGY AND THE HUMAN ENVIRONMENT</td>
<td>4</td>
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<td></td>
<td>Prerequisite: None</td>
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</table>

This course examines the characteristics of ecosystems, the ways in which they change with time, and the impact of human activities on those changes. Included in this will be the study of the science behind current issues such as biological resource management, pollution, and global climate change. Three lectures and one two-hour lab per week. This course does not count toward a biology major or minor. Offered each semester. Meets Core credit for natural sciences.

<table>
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<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIO 111</td>
<td>WETLANDS &amp; WATERWAYS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: None</td>
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</tbody>
</table>

This course is organized around the central question: How does the cycling of water shape the world in which we live? This course will use scientific method to investigate the ecological roles of aquatic ecosystems (streams and rivers, lakes, wetlands, groundwater) and to study the ways in which humans and other species alter the functioning of these ecosystems. Students will practice a variety of investigative techniques from library study to field and laboratory work, and they will exercise their skills in critical thinking and analysis. Written and oral communications will also be emphasized. This course does not count toward a biology major or minor. Meets Core credit for natural sciences. Not currently on the standard rotation.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 125-126</td>
<td>ANATOMY &amp; PHYSIOLOGY I &amp; II</td>
<td>3-3</td>
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<td></td>
<td>Prerequisite: BIO*125 for 126</td>
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</table>

A systematic study of the structure and function of the vertebrate body with particular reference to man. Two one-hour lectures and one two-hour laboratory period per week. Offered each year.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 129</td>
<td>DRUGS, POISONS, POLLUTANTS AND THE HUMAN PERCEPTION OF RISK</td>
<td>3</td>
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<td></td>
<td>Prerequisite: None</td>
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</tbody>
</table>

In this course, students will learn about the basic principles of toxicology, the study of poisons and their effects on the body. Discussions will revolve around the central theme of risk as it relates to potentially toxic chemicals that we are exposed to in our everyday lives. Specifically, students will learn to distinguish between chemicals that are truly dangerous and those that are only perceived to be dangerous by critically evaluating competing predictions of toxicity from potentially biased rival sources. They will also learn how to assess the actual risk posed to living organisms from contamination, which is often contrary to the information that is presented to the public by various media, industry, and environmental groups. In addition, students will learn how contamination produced on a local scale can ultimately become a risk to the entire global community. This course does not count toward a biology or toxicology major or minor. Meets Core requirement for natural sciences.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 130</td>
<td>INTRODUCTION TO TOXICOLOGY</td>
<td>1</td>
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<td></td>
<td>Prerequisite: None</td>
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</tbody>
</table>

Introduction to the science of toxicology focusing on broad general principles and their applications to current issues and events. Not currently on the standard rotation.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 201</td>
<td>MOLECULAR &amp; CELLULAR BASIS OF LIFE</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: High school biology and chemistry or equivalent strongly recommended</td>
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</tbody>
</table>

This course centers on the question: What are the molecular and cellular processes that define life, and how are they sustained from generation to generation? In the process of studying this question, students will have opportunity to examine the application of the scientific method to the study of the fundamentals of cellular structure and function, as well as to investigate the molecular transmission of information from generation to generation and the integration of cells into whole functioning organisms. Three lectures and one 2-hour lab per week. This course is designed for science majors and those planning careers in the health sciences. Meets Core credit for natural sciences. Offered each semester.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIO 202</td>
<td>ORGANISMS, ADAPTATION, AND DIVERSITY</td>
<td>4</td>
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<td></td>
<td>Prerequisite: None</td>
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</tbody>
</table>

This course centers on the question: How do organisms solve the problems of survival, and how are the solutions that have evolved influenced by the environment? Students will examine how observed similarities and differences in organismal structure and function relate to environmental pressures, as well as studying how these observations can be used to construct a logical theory of evolutionary relationships between different organisms. In addition, the complex interactions that have developed between different organisms and between organisms and their environment will be examined. Three lectures and one 2-hour lab per week. This course is designed for science majors and those planning careers in the health sciences. Meets Core credit for natural sciences. Offered each semester.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 205</td>
<td>GENERAL ZOOLOGY</td>
<td>4</td>
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<tr>
<td></td>
<td>Prerequisite: BIO*202</td>
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</tbody>
</table>

A study of biological principles as they pertain to animals and a systematic study of the anatomy, physiology, ecology, behavior, and taxonomy of the major animal phyla. Three lectures and one two-hour laboratory period per week. Offered Spring of even years.
BIOTECNOLOGY

INTRODUCTION TO

Prerequisite: BIO*201

A discussion-based seminar style course in which students read, discuss and present primary research literature in the biological sciences. Students will enhance their ability to use literature search engines, the critical thinking and analytical skills to understand and critique research writing, and the communication skills necessary to present scientific information to their peers. Topics for the course will vary from year to year. Fulfills the Biology major requirement for a seminar course, and can be taken as an elective up to two times for all Biology and Toxicology majors. Offered every year in the Fall.
BIO 305  EVOLUTION  3  
Prerequisite: BIO*202 or BIO*303 or concurrent
Evolution is considered to be the central unifying theory of biology. This course will address several questions: What is the classical and modern evidence for evolution, what are the mechanisms for evolutionary change, and how do evolutionary biologists pose questions and study evolutionary processes? Topics will include biogeography, comparative anatomy and physiology, evolutionary development, comparative genomics, pathogen evolution, the origins of multicellularity, and the use of cladistics to make phylogenetic inferences. Offered fall of even years.

BIO 310  ECOLOGY  4  
Prerequisite: BIO*202
A study of living organisms in their relations to each other and to their environment. Three lectures and one three-hour laboratory/field trip per week. Offered fall semester of odd years.

BIO 325-326  ANATOMY & PHYSIOLOGY I & II  4-4  
Prerequisite: BIO*201; 325 for 326
This course is designed to impart the in-depth knowledge of anatomy and physiology needed by preprofessional students planning careers in medical or allied health fields as well as those interested in graduate study. Offered each year.

BIO 327  PLANT PHYSIOLOGY  4  
Prerequisite: BIO*202
This course examines how plants work at the biochemical, cellular, and organizational levels. Topics include photosynthesis, how plants acquire and transport materials, environmental and hormonal regulation of growth and development, physiological ecology, secondary metabolism, plant defenses, and genome organization. Lab will involve student-designed experiments using the greenhouse and growth chambers, the portable photosynthesis system and other lab equipment, as well as molecular techniques. Three lectures and one two-hour laboratory period each week. Offered Spring Semester of even years.

BIO 328  VERTEBRATE BIOLOGY  4  
Prerequisite: BIO*202
New diseases have been observed around the world. This course is designed to give the student an understanding of the biological, environmental and cultural factors in different societies that lead to the emergence of new human pathogens. Emerging diseases such as HIV, Ebola, Dengue fever and E. coli 0157:H7 may be discussed. Offered Spring of odd years. Meets Core credit for GPS-Border Crossings.

BIO 329  DEVELOPMENTAL BIOLOGY  4  
Prerequisite: BIO*202 BIO*303
This course examines development of living organisms, with primary emphasis on vertebrate animal development, but including important developmental concepts related to invertebrate animals and to flowering plants. Study includes reproductive anatomy and physiology, morphology, cell fate, potency and determination, genomic equivalence, developmental regulation, cellular differentiation, the roles of Hox genes and apoptosis in development, and pattern formation. Not currently in the standard rotation.

BIO 330  PRINCIPLES OF TOXICOLOGY  3  
Prerequisite: BIO*201, BIO*202 CHEM*104
This course will focus on the basic principles of toxicology, the study of poisons. Topics covered include molecular and cellular sites of action of toxicants, carcinogenesis, and teratology, as well as physiological effects of toxicants on the nervous system, cardiovascular system, respiratory system, immune system, and other organ systems. The actions of environmental toxicants on ecological systems will also be explored. Offered each fall.

BIO 331  METHODS IN TOXICOLOGY  4  
Prerequisite: BIO*330
Designed to give students experience in applying biochemical, histological, physiological, ecological, and epidemiological techniques to toxicological problems. Students will plan and carry out experiments, analyze data, and write up results from an original research project. Discussion and critical analysis of current research articles from toxicology journals will also be included. Offered each spring of even years.

BIO 332  TOXIC AGENTS  3  
Prerequisite: BIO*330
In this course, students will explore the different classes of chemical toxins and their effects on living organisms. They will learn about toxic activities, physical properties, regulatory status, and current/historic uses of various poisons, pesticides, and environmental toxins. Emphasis is placed upon the medical, agricultural, environmental, residential, and commercial significance of these substances. Classes of chemicals that will be discussed include toxic metals, non-metal inorganic toxins, organic pesticides (particularly insecticides, herbicides, fungicides, and rodenticides), chemical warfare agents, non-pesticides organic toxins, solvents and vapors, plant and fungal toxins, and animal venoms. Offered spring of odd years.

BIO 340  MICROBIOLOGY  4  
Prerequisite: BIO*201 and CHEM*104
This course explores the characteristics of microorganisms including bacteria, viruses, protists and fungi, with an emphasis on bacteria. Topics discussed include cellular structure and function, molecular genetics of bacteria, microbial metabolism and physiology, microbial diversity and ecology, and mechanisms of pathogenesis and host immunity. Through this course students will gain a deeper understanding of the microbial world and its relevance to human life, and master the tools and techniques necessary for successful laboratory investigations involving microbes. Offered each Spring.

BIO 348  EMERGING PATHOGENS  3  
Prerequisite: BIO*340;
A course designed to give the student an understanding of factors that lead to the emergence of new human pathogens. Emerging diseases such as HIV, Mad Cow disease, Dengue Fever, and E.coli H157 are discussed. Offered Fall of even years. Meets Core credit for GPS-Border Crossings.

BIO 403  ADVANCED GENETICS  4  
Prerequisite: BIO*303 CHEM*307
This course considers viral and bacterial genetics molecular aspects of gene regulation, recombinant DNA technology and current applications of genetic Three lectures and one two-hour lab per week. Not currently in the standard rotation.

BIO 410  BIOLOGY FIELD STUDY  1-6  
Prerequisite: 12 hours of biology
Studies unique habitats and natural areas through intensive on-site exploration to develop an appreciation for the complex interactions that have shaped various natural areas and how these areas are significant to our knowledge of biological diversity. Not currently in the standard rotation.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 410A</td>
<td>THE ECOLOGY OF THE GREAT SMOKY MOUNTAINS</td>
<td>2/4</td>
<td>Offered every fall. Prerequisite: 12 hours of biology. A study of the unique features that have make The Great Smoky Mountains one of the most diverse temperate regions on earth. We study the complex ecological interactions that have shaped this unique area and how the Smokies have influenced even the Ashland area. There are two weeks of on-campus classroom preparations, then one week of study in The Smokies and a final class session after returning. Not currently in the standard rotation.</td>
</tr>
<tr>
<td>BIO 411</td>
<td>LIMNOLOGY</td>
<td>4</td>
<td>Prerequisite: BIO*202. This class introduces the fundamental concepts of limnology, the study of lakes, rivers, and wetland ecosystems. Limnology is an integrative science that investigates the physical, chemical, biological, and ecological properties and processes of fresh water environments. Therefore, we will discuss fundamental concepts and questions about how aquatic ecosystems affect organisms from different perspectives. We will also practice basic techniques for measuring and experimentation, and evaluate current research through a variety of approaches. 3 hours of lecture and one 3-hour lab per week. Offered Spring of odd years.</td>
</tr>
<tr>
<td>BIO 412</td>
<td>MARINE BIOLOGY</td>
<td>4</td>
<td>Prerequisite: BIO*202. This course will examine the marine environment with a focus on marine ecology. Topics covered will include physical and chemical processes in the ocean, marine biodiversity and ecology, and human impact on the oceans. The course includes a hands-on lab component utilizing the department's marine aquarium and collection of marine organisms. The semester concludes with a field trip to the Atlantic coast. Offered spring semester of even years.</td>
</tr>
<tr>
<td>BIO 415</td>
<td>ETHOLOGY</td>
<td>4</td>
<td>Prerequisite: BIO*205. A study of animal behavior and its genetic, evolutionary and ecological aspects. Three lectures and one three-hour laboratory-field trip per week. Not currently in the standard rotation.</td>
</tr>
<tr>
<td>BIO 420</td>
<td>HISTOLOGY</td>
<td>3</td>
<td>Prerequisite: 16 hours of biology. This course is an in-depth study of the organization of the cells, tissues and major organs of the body. An emphasis is placed upon identification of tissues and organs from mammalian systems. Students learn to identify cell types, tissue types, and organs by examination of prepared and ektachrome slides from our large histological slide collection. 2 hours of lecture in addition to one 2 hour lab per week. Not currently in the standard rotation.</td>
</tr>
<tr>
<td>BIO 424</td>
<td>CELL BIOLOGY</td>
<td>4</td>
<td>Prerequisite: 12 hours of biology, BIO 303 or corequisite. This course examines multiple aspects of the biology of the cell as the fundamental unit of life. Emphasis is placed upon both the cellular and molecular details of eukaryotic cell structure and function with careful consideration given to the evolutionary relationships that exist between species. Topics covered include biomolecules, the plasma membrane, cellular organelles, membrane trafficking, cell signaling, the cytoskeleton, the cell cycle, and programmed cell death. In this course, students will not only have the opportunity to learn basic cell biology, but also to improve their critical thinking skills, and gain hands-on experience with modern laboratory equipment. 3 hours of lecture and one 3 hour lab per week. Offered every fall.</td>
</tr>
<tr>
<td>BIO 425</td>
<td>ADV HUMAN PHYSIOLOGY</td>
<td>4</td>
<td>Prerequisite: 16 hours of biology. This course examines the human being from the physiological perspective. Emphasis is placed on understanding the biological, chemical, and physical aspects of the major organ systems of the body; nervous, muscle, cardiovascular, respiratory, renal, digestive, endocrine and reproductive. Each system is studied from the perspective of how that system functions independently within the human body, and how it contributes to the overall functioning of the human being. 3 hours of lecture, and 2 hours of lab per week. Offered each spring.</td>
</tr>
<tr>
<td>BIO 428</td>
<td>MOLECULAR BIOLOGY</td>
<td>4</td>
<td>Prerequisite: BIO*303. This course examines several topics in molecular biology including gene structure, transcription regulation, RNA processing, molecular evolutionary biology, translation, bioinformatics, and the techniques used by molecular biologists to study these topics. This course emphasizes the development of a molecular biological vocabulary, the development of critical thinking skills, and an intense lab experience. 2 hours of lecture and one 4-hour lab per week. Offered spring semester of odd years.</td>
</tr>
<tr>
<td>BIO 429</td>
<td>BIOCHEMISTRY</td>
<td>3-4</td>
<td>Prerequisite: See CHEM 429 for course description.</td>
</tr>
<tr>
<td>BIO 432</td>
<td>PHARMACOLOGY-TOXICOLOGY I</td>
<td>3</td>
<td>Prerequisite: 16 hours of biology; CHEM*307. A study of the principles of pharmacology, including drug administration, pharmacokinetics, and therapeutic and/or toxic effects of commonly used drugs. Focus is on the action of drugs on the autonomic and central nervous systems. Offered each fall.</td>
</tr>
<tr>
<td>BIO 433</td>
<td>PHARMACOLOGY-TOXICOLOGY II</td>
<td>3</td>
<td>Prerequisite: BIO*432. Further study of effects of drugs and toxicants. Includes the study of drugs which affect cardiovascular, urinary, gastrointestinal, respiratory, immune, and endocrine systems. Also covered are antibiotics, chemotheraphy, and a survey of major classes of toxicants (solvents, pesticides, and heavy metals). Offered each spring.</td>
</tr>
<tr>
<td>BIO 439</td>
<td>ADVANCED TOPICS IN BIOCHEMISTRY</td>
<td>3</td>
<td>Prerequisite: See CHEM 439 for course description.</td>
</tr>
<tr>
<td>BIO 449</td>
<td>VIROLOGY</td>
<td>3</td>
<td>Prerequisite: BIO<em>340 or BIO</em>424 or BIO*428. This course examines the characteristics of viruses, including those that infect bacteria, plants, insects, and man. Topics discussed include replication strategies of various viruses, bacteriophages as agents of evolution, pathology of mammalian viruses, prevention and treatment of viral disease, associations between viral infection and cancer, and the transmission of viruses from host to host. Not currently in the standard rotation.</td>
</tr>
<tr>
<td>BIO 454</td>
<td>IMMUNOLOGY</td>
<td>4</td>
<td>Prerequisite: BIO<em>340 or BIO</em>424 or BIO*428. The study of the host's response to infectious diseases. Topics discussed include generation of antibody diversity, interactions between antigens and antibodies, T-cell and B-cell activation and function, the complement system, autoimmune disorders, acquired immune disorders, immunological memory, and vaccination strategies. Laboratory activities include antibody preparation, gel diffusion assays, Western Blotting, and ELISA. Not currently in the standard rotation.</td>
</tr>
</tbody>
</table>
BIO 476 ISSUES IN ENVIRONMENTAL SCIENCE 3
Prerequisite: 30 hours of sciences courses (MATH, BIO, CHEM, GEOL, PHYS)
A detailed examination of the scientific dimensions of selected environmental issues, with discussion of the economic policy, and ethical aspects of those problems with emphasis on global and international perspectives. Case studies will include many examples from other countries, as well as national and regional issues in the U.S. Required for all EVS majors. Biology & Geology majors (but not EVS/Biology or EVS/Geology majors) may use this course as a biology or geology elective. Meets Core credit for GPS-Border Crossings. Offered every spring. BIO/EVS/GEOL credit.

BIO 480 ADVANCED TOPICS IN BIOLOGY/TOXICOLOGY 1-4
Prerequisite: Junior standing
This course is designed to offer in-depth study of a selected advanced topic at a level appropriate to junior and senior majors in biology/toxicology and related areas. May be repeated for credit as topics change. Offered occasionally.

BIO 493 PROFESSIONAL INTERNSHIP 1-16
Prerequisite: 12 hours of resident credit, junior or senior standing and permission of department chair
A course designed to allow advanced biology students to gain practical experience in an area of potential career interest. Students will work under the guidance of an on-site supervisor, following a learning plan to be developed jointly by the supervisor, the student, and a faculty advisor. Graded S/U.

BIO 495 BIOLOGY SENIOR SEMINAR 1
Prerequisite: Senior status in biology, toxicology, env. Sci/bio.
This course asks the question, What should a well educated biologist know? and serves as a review of the important topics that all biology majors should be familiar with upon graduation. Spring semester of the senior year.

BIO 497 DIRECTED LABORATORY & FIELD RESEARCH 1-3
Prerequisite: Permission of instructor
A directed research project supervised by individual faculty which is designed to provide the student with experience in the methods of biological research, including experimental design, use of instrumentation, analysis of results, and presentation of the study in the format of a scientific paper. May be repeated for up to 12 credit hours.

Business (BUS)

BUS 210 STUDY TOUR 1-3
Prerequisite: None
A course designed to use organized experiences with top business and/or government decision makers as learning opportunities for economics and business majors and other interested students. These visits offer inside views of decision making in business, finance, and/or government that will help illuminate campus studies and suggest career possibilities. An acceptable term project report and post trip seminar will be required for credit.

BUS 239 BUSINESS WORK EXPERIENCE 0
Prerequisite: Sophomore status and approval by the Academic Internship Advisor
This course helps the BSBA student meet the internship/work experience requirement for the BSBA degree. A minimum of 225 hours is needed to fulfill this requirement. Before beginning the work experience, the student will need to complete all appropriate paperwork including the Learning Contract, fulfill the requirements listed in the Learning Contract, and obtain the approval of the Academic Internship Advisor.

BUS 250-259 TOPICS IN BUSINESS 1-3
Prerequisite: As required, depending on topic
Courses devoted to various topics of current interest in business. Courses will be designed to meet the educational needs of students in a corporate setting. Courses do not count toward a particular major or minor in the college. Repeatable for new topics.

BUS 339 BUSINESS INTERNSHIP/COOPERATIVE EDUCATION 3-6
Prerequisite: Sophomore status and approval by the Academic Internship Advisor
This course helps the BSBA student meet the internship/work experience requirement for the BSBA degree. A minimum of 225 hours is needed to fulfill this requirement. Before beginning the internship, the student will need to complete all the appropriate paperwork including the Learning Contract, fulfill the requirements listed in the Learning Contract, and obtain the approval of the Academic Internship Advisor. The student may repeat 339 once for a total of no more than 6 credit hours.

BUS 341 APPLIED REGRESSION ANALYSIS 3
Prerequisite: See MATH 341 for course Description

BUS 439 BUSINESS INTERNSHIP/COOPERATIVE EDUCATION 3-6
Prerequisite: None
This course is designed for students completing their second or third business internship after they have satisfied the internship/work experience requirement for the BSBA degree. The student is required to work a minimum of 225 hours and fulfill other requirements as stated in the Learning Contract. Prior approval of the academic internship advisor and completion of the appropriate paper work, including the learning contract, are required. The student may repeat 439 once for a total of no more than 6 credit hours. Graded S/U

Chemistry (CHEM)

CHEM 103 GENERAL CHEMISTRY 4
Prerequisite: High school chemistry, 3 yrs High School math
This course introduces the properties of atoms and molecules using the logical processes of scientific reasoning and investigation. Models of the atom are developed using periodicity and quantum mechanics, and these models are extended to molecules, with an emphasis on the effects of forces within a molecule and between molecules. Applications will be made to the biological and geological sciences, medicine, and the environment. The laboratory emphasizes the development of technical skills using safe laboratory practices. Inquiry approaches to problem-solving are introduced, and conclusions are drawn based on data at hand. Chemical and scientific thinking skills are assessed using formal laboratory reports. Offered every fall. Meets Core credit for natural sciences.
CHEM 104 GENERAL CHEMISTRY 4
Prerequisite: CHEM*103
This course examines chemical reactions using the logical processes of scientific reasoning and investigation. Chemical reactions are studied from the perspectives of thermodynamics, equilibrium and kinetics. Applications will be made to the biological and geological sciences, medicine, and the environment. The laboratory emphasizes the development of technical skills using safe laboratory practices. Inquiry approaches to problem-solving are introduced, and conclusions are drawn based on data at hand. Chemical and scientific thinking skills are assessed using formal laboratory reports. Offered every spring. Meets Core credit for natural sciences.

CHEM 250 LEAD AND CIVILIZATION 3
Prerequisite: None
An intensive examination of the role lead has played in the history of civilization, with emphasis on how the uses and toxicity of this metal are related to its chemical properties. Meets Core credit for natural sciences.

CHEM 251 MOLECULAR ARCHITECTURE 3
Prerequisite: None
The vibrant world of chemistry is explored by seeking answers to three specific questions: 1) What is a molecule? 2) How are molecules constructed? 3) How are molecules characterized? Answers to these questions are sought by an in-depth investigation of organic molecules that are either encountered in daily life or are, in part, critical for sustaining life. Consequently, students are introduced to the logical processes of scientific reasoning and investigation and invited to contemplate the impact of chemistry upon society. Meets Core credit for natural sciences.

CHEM 252 CHEMISTRY OF CRIME SCENE INVESTIGATION 3
Prerequisite: High school chemistry
This course relates real world applications of analytical chemistry to the investigation of crimes. The underlying chemistry and biochemistry involved in forensic analysis are addressed. Also, the exploration of scientific inquiry as it relates to developing hypotheses and providing proof of a crime based on chemical evidence is investigated. This course does not count toward any major in the natural sciences. Meets Core credit for natural sciences.

CHEM 253 CHEMICAL PERSPECTIVES ON LIFE 4
Prerequisite: None
This course explores the question: What do living organisms look like from a chemical perspective? Answering this question requires an understanding of fundamental chemical concepts of inorganic, organic and biochemistry. The laboratory will enhance understanding of chemical concepts and the scientific method, and develop the student's critical thinking skills. The course assumes no chemistry background. It does not meet major or elective requirements of majors in Chemistry/Geology/Physics or Biology/Toxicology Departments. Three lectures and one-1hr.50min. lab per week. Meets core credit for natural sciences. It does not meet major or elective requirements in CHEM/GEOL/PHYS and BIO/TOX departments.

CHEM 297 INTRODUCTION TO LABORATORY & FIELD RESEARCH 1
Prerequisite: Soph or junior standing
This course will introduce the student to scientific research in the laboratory or field through individual instruction on the direction of a Chemistry faculty member. Graded S/U. Offered each semester.

CHEM 307-308 ORGANIC CHEMISTRY I & II 3-3
Prerequisite: CHEM*104; 307 for 308
A survey of the general principles of organic chemistry including nomenclature, structure, reactions, multi-step synthesis, the effect of structural variation on reactivity and structural determination by spectroscopic methods. Emphasis is placed on mechanism and application. Must be taken concurrently with lab 307 offered every fall. 308 offered every spring.

CHEM 307L ORGANIC CHEMISTRY LABORATORY I 1
Prerequisite: CHEM*104
Provides practical experience in modern techniques utilized in the organic chemistry laboratory. The course emphasized the study of the properties, reactivity, and synthesis of organic compounds. The spectrochemical analysis of organic compounds is also stressed.

CHEM 308L ORGANIC CHEMISTRY LABORATORY II 1
Prerequisite: CHEM*307
Provides practical experience in modern techniques utilized in the organic chemistry laboratory. The course emphasized the study of the properties, reactivity, and synthesis of organic compounds. The spectrochemical analysis of organic compounds is also stressed.

CHEM 320 QUANTITATIVE ANALYSIS 4
Prerequisite: CHEM*104;
A study of the fundamental principles of gravimetric, volumetric, colorimetric, potentiometric and chromatographic methods of analysis as applied to the quantitative determination of constituents in practical samples. Two lectures and two three-hour laboratory periods per week. Offered every fall.

CHEM 350 SCIENCE AS A CULTURAL FORCE 3
A – THE MAKING OF THE BOMB
B – THE TOBACCO WARS
C – SCIENCE AND HUMAN NATURE
D – EVOLUTION: FOR & AGAINST
E – SCIENCE AND RATIONALITY
Prerequisite: Any natural science core course
An inquiry into the nature of the scientific method in relation to human culture and its use in gaining and applying new knowledge. This course constitutes a substantial interdisciplinary investigation of the impact of science and technology upon society by way of a sustained look at one particular scientific issue or question for the semester. The ethical dimensions of advances in science and technology are explored in detail. Meets Core credit for humanities or natural sciences, but not both. May be taken only once for Core credit. CHEM/ GEOL/PHYS/PHIL credit.

CHEM 411-412 PHYSICAL CHEMISTRY I & II 3-4
Prerequisite: PHYS*206
Studies the basic concepts of thermodynamics, kinetics and quantum mechanics. Three lectures and one three-hour laboratory per week. Chemistry minors may omit the labs and receive 3 hours credit for each. 411 is offered in the fall, odd years. 412 is offered in the fall, odd years.

CHEM 413 ADVANCED SYNTHESIS LABORATORY 3
Prerequisite: CHEM*411
Multistep syntheses with careful purification and characterization of each intermediate are used to integrate new ideas and techniques with those introduced in previous courses.
CHEM 416 ADVANCED INORGANIC CHEMISTRY 4
Prerequisite: CHEM*411;
Studies trends in reactivity, structure and properties of the elements. Three lectures and one three-hour laboratory per week. Offered in the spring of even years.

CHEM 420 INSTRUMENTAL ANALYSIS 4
Prerequisite: CHEM*320
A thorough study of the physical principles and the analytical techniques used in instrumental methods of analysis. Two lectures and two three-hour laboratory periods each week. Offered in the spring of odd years.

CHEM 429 BIOCHEMISTRY 3-4
Prerequisite: CHEM*307;
Introduction to biochemical principles, systems and methods including the chemistry and metabolism of biologically important compounds. Three lectures and one three-hour laboratory period per week. Course may be taken without lab for three hours credit. Offered each fall. BIO/CHEM credit.

CHEM 439 ADVANCED TOPICS IN BIOCHEMISTRY 3
Prerequisite: CHEM*429;
A study of the complexity of the chemical reaction of biological macromolecules involving investigating the interactions of both organic and inorganic molecules (bio-inorganic chemistry) and the techniques used to study biomolecular structure and function (bio-physical chemistry). This seminar emphasizes critical review and discussion of current scientific literature as well as the development of oral and written presentation skills. Offered in Spring, odd years. BIO/CHEM credit.

CHEM 493 INTERNSHIP 1-4
Prerequisite: Soph. status and approval by department chair
An internship in a laboratory and/or field setting applicable to the discipline will be completed under the supervision by a qualified professional(s). Documentation of 50 clock hours per credit hour, typically over six consecutive weeks (minimum) is required. CHEM/GEOL/PHYS credit.

CHEM 497 LABORATORY & FIELD RESEARCH 1-3
Prerequisite: Soph. status perm of inst. And chair
Laboratory research performed under faculty supervision. This course allows undergraduate students the opportunity to become involved in original research projects directed by Chemistry/Geology/Physics faculty members. Repeatable up to 8 hours.

Coaching & Instruction in Sport

CIS 170 FOUNDATIONS OF COACHING 2
Prerequisite: None
An introduction to the art and science of coaching, including development of a personal philosophy and the application of scientific training principles in the physiological, psychological and managerial bases of sport coaching. The course offers students the opportunity to obtain American Sport Education Program (ASEP) coaching certification.

CIS 321 THEORY/TECHNIQUES OF FOOTBALL 2
Prerequisite: None
Philosophy, theory, methods, techniques and organization of football.

CIS 322 THEORY/TECHNIQUES OF BASKETBALL 2
Prerequisite: None
Philosophy, theory, methods, techniques and organization of basketball.

CIS 323 THEORY/TECHNIQUES OF TRACK & FIELD 2
Prerequisite: None
Methods, techniques, and organization of track and field.

CIS 324 THEORY/TECHNIQUES OF SOFTBALL/BASEBALL 2
Prerequisite: None
Strategy, methods, techniques and organization of baseball and softball.

CIS 325 THEORY/TECHNIQUES OF SWIM/POOL MGT 2
Prerequisite: None
An analysis of instructional and training techniques used in swimming. Procedures in proper pool management will be investigated.

CIS 326 THEORY/TECHNIQUES OF SOCCER 2
Prerequisite: None
Theory, methods, techniques and organization of soccer.

CIS 327 THEORY/TECHNIQUES OF WRESTLING 2
Prerequisite: None
Preparation for organization and administration of coaching wrestling. Course work includes practical application of learning and teaching wrestling maneuvers, interpretation of wrestling rules, match and tournament organization.

CIS 328 THEORY/TECHNIQUES OF VOLLEYBALL 2
Prerequisite: None
Theory, methods, organization and techniques of volleyball.

Criminal Justice (CJ)

CJ 130 INTRODUCTION TO CRIMINAL JUSTICE 3
Prerequisite: None
An overview of the philosophical, historical and operational aspects of the justice system in the United States.

CJ 200 CRIMINAL INVESTIGATION I 3
Prerequisite: CJ*130
Provides the student with an opportunity to study the technical, theoretical and legal aspects of criminal investigation.

CJ 227 INTRODUCTION TO CORRECTIONS 3
Prerequisite: None
This course is an overview of the process and institutions involved in the supervision, treatment, control, and incarceration of those individuals who have been adjudicated and sentenced by the court. Corrections in the United States encompass a variety of public and private institutions including: probation and parole systems, jails, prisons, half-way houses and post-release supervision.
CJ 235 COURTS AND JUSTICE 3
Prerequisite: CJ*130
Affords the student a concentrated study of the functions, operations and decision-making process of the American court system.

CJ 240 CRIMINAL INVESTIGATION II 3
Prerequisite: CJ*130 CJ*200
A continuation of CJ 200. The course will focus on investigative theory and technique for major felonies including murder offenses, sexual assault, and theft related to crimes, recognizing that each crime category involves different processes to properly investigate that incident. The legal concept of forensic science and the differing roles of the coroner, forensic scientists, technicians, crime scene investigator, and the crime lab in investigations will also be discussed.

CJ 242 CRIMINOLOGY 3
Prerequisite: None
An introduction to the history of crime, the sociology of criminal law, the operation of the criminal justice system, including roles of police, prosecutors, defense attorneys and juries. Also considered are offender types; conventional, white collar and organized crime; theories of causation; victimology; prison, probation and parole; and trends and issues in criminology. CJ/SOC Credit.

CJ 244 JUVENILE DELINQUENCY 3
Prerequisite: None
A course planned to aid the student in the examination of juvenile delinquency as a social problem from the perspectives of control prevention and rehabilitation. Delinquency will be viewed as to definition, genesis and extent. The social institutions of families and schools will be discussed in detail. The juvenile courts, probation, parole, correction institutions and child placement programs are to be examined with respect to their effectiveness, philosophy and goals. CJ/SOC credit.

CJ 270 ROLE OF POLICE IN MODERN SOCIETY 3
Prerequisite: CJ*130
Study of the role behavior and life of the line officer within the police subculture and within society. Topics examined are the influence of coercive power, role behavior, subcultural influences, and personal issues relating to loyalty, stress, health, critical incidents, family, and faith.

CJ 275 GANGS AND CULTS 3
Prerequisite: See SOC 275 for course description.

CJ 303 CRIMINAL ORGANIZATIONS 3
Prerequisite: CJ*242
An examination of the criminal activities carried out through criminal organizations having as their primary purpose, the making of gain through criminal means. The student will examine techniques of detection and investigation, contact with the judicial process, see examples of criminal activity, growth and trends of organized crime.

CJ 307 VICTIMOLOGY 3
Prerequisite: None
Victimology is the study of the role of the victim in criminology and the criminal justice system. Areas to be investigated include the relationship between victims and their criminal offenders, societies' responses to the victims, the victim's role in the criminal justice process and programs directed at assisting victims of crime. CJ/SOC credit.

CJ 331 TOPICS IN CRIMINAL JUSTICE 3
Prerequisite: None
A seminar open to criminal justice majors/minors which will provide an opportunity to explore, in-depth, topics pertinent to or impacting on the field of criminal justice. This may include critical observations of historical, contemporary or future issues. Repeatable to a maximum of 9 hours.

CJ 360 READINGS IN CRIME AND JUSTICE 3
Prerequisite: None
This course surveys major literary works that deal with crime and punishment and examines these works in terms of motivation, social milieu, culture and legal systems that affect our understanding of justice and the laws that attempt to achieve that justice.

CJ 362 CRIMINAL LAW 3
Prerequisite: CJ*130
Analysis and evaluation of the growth of legal relationships between the individual and government with special attention to problems of law enforcement-law adjudication and the impact of their decisions on the citizen and the criminal justice system.

CJ 366 CRIMINAL PROCEDURE 3
Prerequisite: CJ*130 CJ*362
Examination of the area of law balances governmental power and individual rights. Issues that address balancing controlling crime with due process rights include search and seizure, detention and arrest, interrogation, trial rights and sentences.

CJ 403 FIELD EXPERIENCE/INSTRUCTION-CJ 1-12
Prerequisite: Permission of instructor
Provides an opportunity for CJ majors to observe and experience the criminal justice system in action. The student selects from a variety of agencies or organizations willing to offer this opportunity and, with the help and guidance of the field coordinator, participates in an experience designed to bring academic preparation together with the reality of being a professional criminal justice practitioners. Experience may be taken for up to a total of 12 hours.

CJ 415 ADVANCED CRIMINOLOGY AND PROFILING 3
Prerequisite: CJ/SOC*242
Advanced Criminology and Profiling is a case study approach to applying theory to the practice of criminology. The case histories of some infamous and not-so-infamous criminals will be examined for the purpose of applying criminological theory. Students will determine the probable cause(s) of those individuals' criminality. CJ/SOC credit.

CJ 450 ETHICS IN CRIMINAL JUSTICE 3
Prerequisite: CJ*130 CJ*362, and senior status
This course will analyze ethical behavior and provide criminal justice practitioners with decision-making skills to enhance the practitioner duty performance and the public interest. The focus will be on making moral, rational, and responsible decisions which will lead to ethical professional behavior. Must be taken at AU.
Communication Studies (COM)

COM 100 DEVELOPMENTAL SPEECH 3
Prerequisite: None
An elementary course designed for freshmen students whose oral communication skills are in need of reinforcement. Class enrollment will be determined by the recommendation of faculty members or student request. The credit hours may not be applied to communication requirements for graduation. Course will be graded A, B, C or U. If a U is earned, course must be repeated. Offered infrequently.

COM 101 HUMAN COMMUNICATION 3
Prerequisite: None
This course encompasses communication theory, interpersonal communication, small group communication and public speaking. Emphasis is placed on speaking, critical thinking, listening skills. Attention is also paid to nonverbal communication. Meets Core credit for communications.

COM 105 PERFORMANCE STUDIES 3
Prerequisite: None
This course investigates what constitutes performance in everyday life and how performance can be viewed as an aesthetic experience. The course will focus on the discipline of performance studies, its ties to the oral tradition, its ties to the oral interpretation movement, and current understanding of what constitutes a performance text. This course will include an emphasis on performance in everyday life as well as aesthetic performance of both literary and non-literary texts. Techniques involving textual analysis, use of voice and body for solo performance, and audience adaptation will be used. Meets Core credit for aesthetics. COM/TH credit.

COM 120 FOUNDATIONS OF HEALTH COMMUNICATION 3
Prerequisite: None
This course encompasses communication theory, interpersonal communication, small group communication and public speaking specific to the healthcare setting. Emphasis is placed on speaking, critical thinking, listening, and feedback skills. Attention is also paid to nonverbal communication. Meets Core credit for communications.

COM 163 FOUNDATIONS OF SPORT COMMUNICATION 3
Prerequisite: None
Introduction to the sport communication field with emphasis on organization and administration areas. The course will deal with the working relations with media and personnel in professional sport and other intercollegiate athletic conferences.

COM 204 COMMUNICATION THEORY AND RESEARCH 3
Prerequisite: COM*101 or COM*120
This course surveys, analyzes and applies the major theories and research methodologies in the field of communication studies to verbal and nonverbal forms of symbolic interaction across a variety of contexts.

COM 205 INTRODUCTION TO PUBLIC RELATIONS 3
Prerequisite: COM*101 or COM*120
This course includes an introduction to an application of public relations theories, philosophies, and principles applicable to a variety of organizations. We will explore historical perspectives, current and future trends, as well as professional associations, and career opportunities in public relations.

COM 206 SMALL GROUP COMMUNICATION 3
Prerequisite: COM*101 or COM*120
Students relate the theories of small group process and problem solving to actual practice, eventuating in the completion of a real problem solving task. Parliamentary procedures, for use in larger and legally formed groups, are practiced at the end of the course.

COM 208 ARGUMENTATION AND ADVOCACY 3
Prerequisite: COM*101 or COM*120
A study of the theory and practice of developing argumentative discourse to gain audience adherence. Practice in analyzing actual situations that call for debate is emphasized, with attention to several debate formats.

COM 211 PUBLIC RELATIONS WRITING 3
Prerequisite: COM*205
This course provides instruction and writing practice designed to develop the professional-level writing skills expected of a PR writer. The aim is to provide students with the necessary confidence in PR writing skills to make them the preferred candidate for a PR job.

COM 221 TOPICS IN PUBLIC RELATIONS 3
Prerequisite: COM*205
This course will examine various topics relating to the field of public relations. Typical topics would include brand communication, health public relations, crisis communication, international public relations, public relations and new media, and public relations and non-profit agencies. May be repeated for credit as topics change.

COM 222 TOPICS IN COMMUNICATION 3
Prerequisite: COM*163
This course will examine various topics relating to communication needs. Typical topics would include interviewing, persuasion, public address, assertiveness training, public relations, professional communication, rhetorical criticism, history of public address and rhetorical theory. May be repeated for credit as topics change.

COM 223 TOPICS IN SPORT COMMUNICATION 3
Prerequisite: COM*163
This course will examine various topics relating to sport communication issues. Typical topics would include Sport and Film, History of Sport and the Media, Sport and Media Relations, and perhaps classes cross-listed with other disciplines, such as Sport Literature. May be repeated for credit as topics change.

COM 224 TOPICS IN HEALTH & RISK COMMUNICATION 3
Prerequisite: COM*101 or COM*120
This course will examine various topics relating to health and/or risk communication issues. Typical topics would include developing risk and crisis response to specific threats to various publics, development and implementation of health communication interventions and campaigns targeted at specific threats, and development of risk message campaigns concerning particular environmental and health risks. May be repeated once for credit as topics change.

COM 242 SPORT REPORTING 3
Prerequisite: None
A survey of the patterns and practices of sports reporting. Emphasis on reporting sports events and sports features. Class assignments will involve gathering and preparing sport-related information as well as writing and analyzing representative forms of sports reporting.
COM 244  SPORT, COMMUNICATION AND CULTURE  
**Prerequisite:** COM*101 or COM*120  
This course critically explores the social interactions of sport and considers the degree to which its participants reinforce or resist cultural norms.

COM 270  RESEARCH METHODS IN COMMUNICATION  
**Prerequisite:** COM*101 or COM*120; MATH*208  
This course involves the study of research methods and research design commonly employed in the field of Communication Studies. Research methodologies to be explored include survey research, experimental design, available data research, and field research. Emphasis will be put on the assessment of reliability and validity in a research design. The course will also discuss the ethical issues associated with conducting research on human beings as well as the presentation of research methodology in manuscript format.

COM 301  PUBLIC SPEAKING  
**Prerequisite:** COM*101 or COM*120  
Continues the communication concerns of COM 101 while offering practice in developing speeches for a variety of career and personal interest occasions with adaptation to particular audiences and time limitations. Theories of rhetoric and persuasion are a part of the content.

COM 302  INTERCULTURAL COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
Introduces students to methods of learning about other cultures and ways to communicate effectively with and about people of other countries and subcultures. Meets GPS - Border Crossing requirement.

COM 304  INTERPERSONAL COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
A course emphasizing the theoretical approaches and contemporary research on patterns of interpersonal communication in human relationships. Emphasis will be placed on developing skills for analyzing interactional processes through close description and interpretation.

COM 305  ORGANIZATIONAL COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
This course is a study of communication systems and behaviors within organizations and will serve as an introduction to the study of communication channels and networks in organizations. Topics include the relevance of communication to management operations, employee morale, networks, superior-subordinate relationships, production, leadership, organizational climates and cultures, and ethics in organizations.

COM 313  GENDER AND RACE IN SPORT  
**Prerequisite:** COM*101 or COM*120  
This course provides a background of the issues of gender and race in the world of sports. Topics that will be discussed include women's participation in sports before and after Title IX, masculinity in sports and sports media, femininity portrayal in athletics, the racial integration of sports throughout history, and the current state of sport in consideration of both gender and race.

COM 315  INTERNATIONAL STORYTELLING  
**Prerequisite:** COM*101 or COM*120  
An introduction to world cultures through the analysis and performance of their stories. Meets Core credit for aesthetics and GPS- Border Crossing requirement. COM/EDCI credit.

COM 320  HEALTH COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
This course exposes the student to the emerging field of health communication. This reflects the analysis and understanding of communication during the healing process with healthcare organizations and among all involved personnel and patients. Focused within the healthcare context, emphasis is placed on rhetorical medicine, narrative medicine, intercultural and gender communication, affirming communication, and aggressive communication. Attention is also given to communication during end-of-life care, stigmatization, and informed consent processes.

COM 323  SPORT PUBLIC RELATIONS  
**Prerequisite:** COM*163  
This class will examine the tasks of the sport public relations specialists, including such areas as promotions, media relations, community relations, and crisis communications.

COM 333  LEADERSHIP COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
This course will explain the critical connection of communication to effective leadership. Students will learn about leadership communication as it relates to ethos, ethics, strategies and different organizational

COM 343  CONFLICT, MEDIATION, AND NEGOTIATION  
**Prerequisite:** COM*101 or COM*120  
This course emphasizes theoretical approaches and contemporary communication research on patterns of conflict in human relationships. The emphasis will be on understanding the causes (e.g., cultural, philosophical) and types of conflict; developing skills for analyzing conflict situations through close observation, detailed description, and interpretation; and understanding the types and strategies of conflict management that include mediation and negotiation.

COM 370  INFORMATICS IN HEALTH COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
This course will focus on the influence that health-related information has on communication. Topics include information seeking, information gathering, and information processing, the impact that electronic medical records, personal health records, SMART technology, e-medicine, telehealth, e-training, and robotics have on patient-provider and healthcare team communication.

COM 375  INFORMATICS IN SPORT COMMUNICATION  
**Prerequisite:** COM*101 or COM*120  
This course is a study of how information is generated, exchanged, and utilized within sports, as a pastime and an industry, and the impact it has on communication. Topics include information seeking, information gathering, information processing, the impact that media and innovations such as fantasy sports and social networking have on how sport is communicated in the modern era.
COM 410 RELATIONAL COMMUNICATION IN SPORT 3
Prerequisite: COM*101 or COM*120; COM*163
This course will investigate the multiple relationships that exist in sports. Interpersonal communication theory will be used to analyze relationships including family relationship in sports, coach-athlete relationships, as well as team and organizational relational dynamics. The course will also investigate how and why these relationships grow or fail based on the communication between the parties.

COM 415 COMMUNICATION IN SPORT ORGANIZATIONS 3
Prerequisite: COM*101 or COM*120; COM*163
This course provides insight into the organizational structure of sports organizations as well as how communication works both internally and externally given the organizational structure. Organizational communication will be covered from a theoretical perspective and will focus on the theory and style of communication that is most appropriate considering the organizational structure. The course will also examine how sports organizations are run in other countries to allow a comparison to those that are currently in place in the United States.

COM 420 HEALTH PUBLIC RELATIONS 3
Prerequisite: COM*101 or COM*120; junior status
This course is a study of the communication processes that are involved in communicating about health and issues that arise during healthcare processes including patient care, health care campaigns, as well as crisis and risk communication specific to healthcare. Topics include theory in health communication, interpersonal communication in health including patient-doctor care and social support, ethical concerns in healthcare and healthcare campaigns, crisis communication, developing healthcare communication plans, implementing communication strategies, and assessment of the communication campaign.

COM 425 RISK AND CRISIS COMMUNICATION 3
Prerequisite: COM*101 or COM*120; junior status
This course is a study of the communication processes that are involved in the communication of information to people and various publics regarding risks, how these risks will impact the publics, and how to best prepare the publics to reduce the risk. Topics include communication risk analysis, crisis communication, developing risk and crisis communication plans, implementing communication strategies, and assessment of the communication campaign.

COM 430 STRATEGIC COMMUNICATION 3
Prerequisite: COM*211 COM*305
This course provides instruction and practice in strategic communication theory and research at the organizational and public levels. Students will gain the necessary skills to identify and execute proper planning in both promotion and crisis planning for organizations to those who are directly and indirectly impacted.

COM 436 INTERNSHIP IN COMMUNICATION STUDIES 2-3
Prerequisite: permission of instructor
This course is designed for students seeking an internship experience. Students should apply the knowledge attained through their studies in a workplace similar to what they might seek after graduation. Internships can be started any time after the student's sophomore year and must be approved by the faculty internship advisor for that major. Each credit hour of internship requires 60 hours of work at the internship site. Graded S/U. Repeatable up to 6 hours.

COM 470 RESEARCH EXPERIENCE IN COMMUNICATION STUDIES 1-2
Prerequisite: permission of instructor
This course is designed for students seeking a research experience within the Department of Communication Studies. Students who are interested in research within their major may choose to work with interested faculty on research projects relating to communication studies. The Research Experience can be started any time after the student's sophomore year and must be approved by the faculty member(s) with whom the student will be working. Credit for the research experience may be taken simultaneously with the research experience or the semester immediately after completing the research experience. Students will be responsible for engaging in research as directed by the faculty member in charge. Each credit hour of research experience requires 60 hours of work with the faculty member. Graded S/U. Repeatable up to 4 hours.

COM 474 PUBLIC RELATIONS CAMPAIGNS 3
Prerequisite: COM*211; junior status
This course is a capstone experience where students apply the knowledge they have gained to develop PR campaigns for real-world clients. This integration involves coordination of the entire PR process, including client communication, research, planning and development, implementation, and evaluation of PR campaigns. Students will strengthen their strategic thinking, writing, and presentation skills.

Computer Science (CS)

CS 101 LOGIC AND COMPUTING 3
Prerequisite: 2 years high school algebra
Beginning with the building blocks of circuits and advancing through a collection of language abstractions, students use logic at several levels to gain a deep insight into how modern digital computers actually work. This course is intended for non-majors and assumes no computer hardware or programming experience. Meets Core credit for math/logic.

CS 121 COMPUTER PROGRAMMING I 4
Prerequisite: 2 years H.S. algebra and 1 year H.S. geometry
An introduction to problem solving techniques, algorithm development, and the design and development of procedural programs using the C++ programming language. Includes a 1-hour lab.

CS 122 COMPUTER PROGRAMMING II 4
Prerequisite: CS*121
A continuation of CS 121. A further exploration of the principles, methods, tools and practice of programming, including derived and dynamic data structures, abstract data types, object-oriented programming, and basic algorithms. Includes a 1-hour lab.

CS 175 WEB DESIGN 3
Prerequisite: None
An introduction to the World Wide Web, the creation of Web sites, Web page markup and styling languages, and client-side programming.

CS 230 DATA STRUCTURES 3
Prerequisite: CS*122; MATH*223
Formal specification of abstract data types using an object-oriented language with examples of their uses in computer science: records, stacks, queues, linked lists, hash table, heaps, and trees.
CS 245  ROBOTICS AND MACHINE LEARNING  3
Prerequisite: None
An introduction to the theory, design, and implementation of elementary robotics systems and machine learning techniques. Topics include: history of robotics and machine learning, philosophical perspectives and impact of artificial intelligence systems on society, robot construction techniques, robot navigation and manipulation, machine learning algorithms and their applications, and software robots. This course is intended for non-majors and assumes no computer science background. Meets Core credit for natural sciences.

CS 260  TOPICS IN COMPUTER SCIENCE  3
Prerequisite: None
This course is offered subject to student need, faculty availability, and with the approval of the department chair and college dean. Topics may include Java Programming, and Introduction to UNIX. Repeatable for different topics.

CS 275  WEB PROGRAMMING  3
Prerequisite: CS*122
A continuation of CS 175, with emphasis on Web services and server-side programming using PHP.

CS 293  INTERNSHIP  1-3
Prerequisite: CS*121, Learning Contract
Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include Unix administration, maintaining the hardware lab, and preparing and running formal class laboratories for the introductory programming classes. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

CS 301  COMPUTER ARCHITECTURE  3
Prerequisite: CS*122
An introduction to the characteristics of computer systems at the digital logic and organization levels.

CS 302  THEORY OF COMPUTATION  3
Prerequisite: MATH*224 and MATH*250
An introduction to the logical and mathematical foundations of computer science. Topics discussed include models of computation, grammars and parsing, solvable and unsolvable problems, and P/NP complexity classes.

CS 303  COMPUTER ALGORITHMS  3
Prerequisite: CS*230 and MATH*224
An introduction to the design and efficiency of algorithms from both sequential and parallel perspectives, including identifying characteristics of sequential algorithms which are easily parallelizable and different parallel computing paradigms.

CS 304  PROGRAMMING LANGUAGES  3
Prerequisite: CS*230 and MATH*224
Issues in the design and implementation of a programming language including type models, control models, parameter passing, and storage management. Formalisms to describe the syntax and semantics of a programming language.

CS 393  INTERNSHIP  1-3
Prerequisite: CS*121, Learning Contract
Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include Unix administration, maintaining the hardware lab, and preparing and running formal class laboratories for the introductory programming classes. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

CS 409  COMPILER DESIGN  3
Prerequisite: CS*302 and CS*304
Introduction to the process of compilation, the components of a compiler, and the relationship between a program written in high level language and its realization as a sequence of machine instructions. Lexical analysis, various forms of syntactic analysis, code generation and optimization.

CS 421  OPERATING SYSTEMS  3
Prerequisite: CS*230 and CS*301
Introduction to the design and implementation of modern operating systems. Topics include processes, interprocess communication, I/O management, memory management, file systems, and security.

CS 427  COMPUTER GRAPHICS  3
Prerequisite: CS*303 and MATH*307
An introduction to computer graphics concepts. Several graphics algorithms will be presented and implemented. Graphics theory in clipping, rotation, three-dimensional graphics and other related topics will be explored.

CS 433  COMPUTER NETWORKS  3
Prerequisite: CS*230 and CS*301
Presents computer networks and internets from the lowest level of data transmission over hardware to the highest level of communication between software applications.

CS 460  ADVANCED TOPICS IN COMPUTER SCIENCE  1-3
Prerequisite: CS*230
This course is offered subject to student need, faculty availability, and with the approval of the department chair and school dean. Topics to be taught include Neural Networks, and System Programming. Repeatable for different topics.

CS 493  INTERNSHIP  1-3
Prerequisite: CS*121, Learning Contract
Credit will be granted for field experience in computer science relevant to the student's educational development and career goals. This work may be done on campus by providing technical assistance to faculty. Examples include Unix administration, maintaining the hardware lab, and preparing and running formal class laboratories for the introductory programming classes. Alternatively, this work may be done off campus. Prior approval of a CS faculty member is required. Does not count toward science electives.

CS 499  SOFTWARE DEVELOPMENT  3
Prerequisite: CS*304
Application of product engineering methods to the design and development of software - quality assurance, project management, requirements analysis, specifications, design, development, testing, production and maintenance.
Dietetics (DIET)

DIET 130 PRINCIPLES OF FOOD AND MEAL PREPARATION 3
Prerequisite: None
An examination and application of the components that contribute to managing and organizing the preparation of meals at the consumer level, involving menu planning, food procurement, food safety issues, recipe modifications for specific dietary concerns, budgeting, and hospitality.

DIET 210 INTRODUCTION TO DIETETICS 2
Prerequisite: None
This course will examine and discuss the profession of dietetics including educational requirements for becoming a registered dietitian (R.D.), professional organizations, career pathways, and the role of the dietitian in patient care. Students will be introduced to nutrition-related research, its methodology, applications, and areas for future investigation. Students pursuing a degree in dietetics will be encouraged to join student chapters in The Academy of Nutrition and Dietetics (AND), Ohio Dietetic Association (ODA), Ohio Nutrition Council (ONC), and Mohican Area Dietetic Association (MADA) and attend one professional meeting.

DIET 213 SOCIETY’S INFLUENCE ON BODY IMAGE AND EATING 3
Prerequisite: Sophomore Status
This course will examine the societal determinants of a person’s body weight, such as the influence of the family/parental, peers, societal norms, and the food and entertainment industries’ impact on body image and dietary behaviors. This course will explore these societal factors that influence disordered eating, body shape, and weight loss/gain and discuss strategies to address these areas. Meets Core credit for social sciences.

DIET 230 FOOD SCIENCE & APPLICATIONS 3
Prerequisite: None
Discussions related to the chemical properties of food substances, their nutritional importance, and their application in a laboratory setting.

DIET 320 HUMAN NUTRITION 3
Prerequisite: CHEM*103 or CHEM*251 or CHEM*253
Exploration and discussion of basic principles of human nutrition, which include digestion/absorption, macro and micronutrients and their metabolism, energy balance, sports nutrition, nutrition and chronic illnesses.

DIET 330 NUTRITION COUNSELING SKILLS 3
Prerequisite: DIET*320
This course will examine the nutrition counseling skills necessary for an entry-level dietitian when working with groups or individuals in clinical or community settings. Practice in use of dietary analysis software programs and the development of nutrition educational materials incorporating health behavioral change models appropriate for various age groups and life cycle stages will also be examined.

DIET 343 ACTIVE AGING & WELLNESS 3
Prerequisite: None
An examination of the role that lifestyle, nutrition, physical activity and/or exercise play in modifying physiological/functional age and in determining the quality of life of older adults.

DIET 360 LIFECYCLE NUTRITION 3
Prerequisite: None
This course will examine and discuss the importance of nutrients (carbohydrates, lipids, proteins, vitamins, and minerals) throughout the various life cycles of human development; including preconception, pregnancy, infancy, childhood, adolescence, adulthood, and geriatrics. Discussions will focus on reducing health risk factors among these stages with emphasis on nutritional intake.

DIET 370 COMMUNITY NUTRITION 3
Prerequisite: None
This course will examine nutrition in U.S. communities and national nutrition directives and guidelines for health promotion and disease prevention across the lifecycle. Primary, secondary, and tertiary strategies will be discussed. Nutrition epidemiology in prevention and disease, national and state nutrition policies, programs, and how nutrition professionals function in these various environments will be explored.

DIET 385 ADVANCED HUMAN NUTRITION 3
Prerequisite: None
Exploration and discussion of advanced principles of human nutrition, which includes the anatomy and physiology of digestion/absorption, metabolism of macro and micronutrients and their physiological significance, physiology of energy balance, nutritional intake and chronic illnesses.

DIET 395 VITAMINS & MINERALS 3
Prerequisite: DIET*320 CHEM*104
This course will explore the biological functions of vitamins and minerals in human nutrition. This will include a review of the essential functions of vitamins and minerals, health implications of varying amounts of vitamins and minerals in the diet, as well as examining interactions between vitamins, interactions between minerals, and vitamin and mineral interactions. Discussions will include determining the recommended dietary intake of vitamin and mineral levels for optimal health and prevention of chronic illnesses for various stages of the life cycle.

DIET 400 NUTRITION & DISEASE I 3
Prerequisite: None
This course will examine the implementation of medical nutrition therapy (MNT) for chronic and acute medical disorders. It will include the development of medical nutrition therapy plans appropriate for these conditions for individuals throughout the lifecycle. Medical disorders examined in this course include pediatric, neurological, pulmonary, cardiovascular, gastrointestinal, hepatic, pancreatic, biliary, and endocrine.

DIET 425 NUTRITION & DISEASE II 3
Prerequisite: DIET*400
This course will examine the implementation of medical nutrition therapy (MNT) for chronic and acute medical disorders. It will include the development of medical nutrition therapy plans appropriate for these conditions for individuals throughout the lifecycle. Medical disorders examined in this course include weight management, musculoskeletal and collagen, hematological, cancer, surgical, AIDS, renal, enteral and parenteral nutrition.
ECON 101  MARKET FUNDAMENTALS  3
Prerequisite: None
This course will engage students in the economic way of thinking by taking an in-depth look at market fundamentals. Why, how, and who uses markets and what do we do when they fail? Students will be introduced to the economist’s view of the world through extensive discussion, analysis, and writing. Does not count toward an economic major or minor. Meets Core credit for social science.

ECON 201  ECONOMICS: LEARNING AND INSTRUCTION  3
Prerequisite: For Education majors only
A sophomore level course designed to teach education majors the principles of economics in a manner designed to assist them in incorporating these concepts into the K-12 curriculum. In addition to quizzes and examinations students may be expected to prepare one or more lesson plans or instructional units appropriate to the grade level they are preparing themselves to teach. Instructional materials produced by the National Council on Economic Education, the Federal Reserve System and others are featured. No credit if courses numbered Economics 200 or higher have previously been taken.

ECON 232  PRINCIPLES OF MICROECONOMICS  3
Prerequisite: None
Analysis of the pricing processes in a private enterprise economy under varying competitive conditions, their role in the allocation of resources and the functional distribution of national income. Special emphasis is given to theoretical analysis as applied to business problems. Meets Core credit for social sciences.

ECON 233  PRINCIPLES OF MACROECONOMICS  3
Prerequisite: None
An examination of the determinants of national income, employment and the price level in the private enterprise system, including analysis of consumption and saving, private investment, government fiscal policy, business fluctuations, and the interaction between money and national income. International economic relations are also emphasized. Meets Core credit for social sciences.

ECON 250-259  TOPICS IN ECONOMICS  1-3
Prerequisite: None
Courses devoted to various topics of current interest in economics. Courses will be designed to meet the educational needs of selected groups o f students, but will not be applicable to a particular major or minor. Repeatable for new topics.

ECON 301  GAME THEORY  3
Prerequisite: Core math/logic requirement
Techniques using classical game theory, auction design, controlled human-subject experiments, evolutionary game theory, and agent-based computer models are used to understand and solve situations involving potential conflict and cooperation such as military strategies, the auction of FCC licenses, the Middle East conflict, and the rise of resistant strains of bacteria in hospitals. While game theory is demanding in terms of reasoning ability, the focus of the class will be qualitative rather than quantitative analysis. Meets Core credit for social sciences.

ECON 302  THE ECONOMICS AND HISTORY OF ENTREPRENEURSHIP  3
Prerequisite: None
This course examines the social, institutional, and economic environment from which some important American entrepreneurs have emerged and analyzes their impact on society. Emphasis is put on the institutional and economic environment in which an entrepreneur operates and the impact of the entrepreneur on this environment. Entrepreneurship is an important part of the modern social and business milieu, and an understanding of this phenomenon is important to a well-educated person. Meets Core credit for Social Sciences.

ECON 321  PUBLIC FINANCE  3
Prerequisite: ECON*232
The economic theories of taxation and government finance as demonstrated at federal, state and local government levels. The interrelation of public finance and economic stability and growth is explored to discover the basis and objectives of financial policy.

ECON 324  ECONOMICS OF GOVERNMENT AND BUSINESS  3
Prerequisite: ECON*101 or ECON*232 or ECON*233
This course examines the economic effects of the attempts of government to regulate natural monopolies and monopolistic behavior, and other business practices in the public interest and to promote and maintain competition in other areas of the economy. This course will provide the students with a perspective on how economics analyzes the interaction of government and business. Government regulation is pervasive in the social and business environment, and the ability to analyze this phenomenon is important to a well-educated person. Meets Core credit for social sciences.

ECON 331  COMPARATIVE ECONOMICS  3
Prerequisite: ECON*232 or ECON*233
In today's world economy, countries around the globe have fashioned their own versions of economic system compatible with their culture and social values. This course will focus on why and how this has occurred, through the investigation and critique of various countries' economic systems from a cultural point of view. Special emphasis will be given to the understanding of selected countries (including Germany, Japan, France, Sweden, Brazil, Russia, China, and India) and cultures and prevailing economic policies and institutions. Meets Core credit for social science and GPS-Border Crossings.

ECON 332  INTERMEDIATE MICROECONOMICS  3
Prerequisite: ECON*232
A study of the conditions of producer and consumer equilibrium, price of products within the firm and the industry both under perfect and imperfect competition, and price and employment of factors of production.

ECON 333  INTERMEDIATE MACROECONOMICS  3
Prerequisite: ECON*233
Every American deals with and should understand macroeconomics. This course applies powerful tools of economic analysis to answer questions like: Will globalization destroy good jobs in the U.S.? Does free trade make the average American better off? Are today's budget deficits bad for future generations? Will Social Security go bankrupt? What determines how fast the U.S. economy grows? How do the President and the Fed affect the economy? Should the U.S. help developing countries grow faster?
ECON 334  MONEY AND BANKING  3
**Prerequisite:** ECON*233
The functioning of a private enterprise society is analyzed in terms of money in all of its economic aspects, including its amount, form and flow, and the institutions, public and private, that assist in mobilizing and distributing purchasing power. A historic approach is included to provide a foundation and a perspective.

ECON 342  GLOBAL ECONOMICS  3
**Prerequisite:** ECON*232 or ECON*233
The theory of international trade, exchange rates, trade barriers, balance of payments disequilibrium, United States commercial and aid policies, regional economic integration and international economic development. Environmental, operational and functional variables in international economics. Meet core credit for GPS-Border Crossings.

ECON 346  MANAGERIAL ECONOMICS  3
**Prerequisite:** ECON*232
A study of the economics applied to decision making, managerial economics emphasizes the use of economic analysis in clarifying problems, in organizing and evaluating information and in comparing alternative courses of action. The general problem of resource allocation will be dealt with in the context of business enterprises, non-profit organizations and public agencies.

ECON 407  ECONOMICS OF LABOR  3
**Prerequisite:** ECON*232
This course is primarily a study of the institutionalization of labor as an economic, social and political force. A survey of the historic and economic roots of labor power, the existence of organized labor as a social phenomenon, and the resultant implications for other social, political and economic institutions. Offered infrequently.

ECON 426  INTRODUCTION TO ECONOMETRICS  3
**Prerequisite:** MATH*208; ECON*232 or 233
This course is designed to expose students to the use of multiple regression as a model building tool. Topics covered include: design of multiple regression models; statistical analysis of regression models; problems and techniques of correcting for multicollinearity, autocorrelation, specification error and heteroscedasticity; and design of distributive lag models. This course is recommended for a student planning to attend graduate school. Offered infrequently.

ECON 434  DEVELOPMENT OF ECONOMIC THOUGHT  3
**Prerequisite:** None
A study of how people's thought on economic issues has changed overtime. It will deal with the effect of historical change on economic thinking and with the impact of economic thought on historical change. Emphasis will be placed on the influence of the important economic thinkers on subsequent and modern economic theory and practice, and the impact of the important economic thinkers of the past on the economics, political, and social milieu of the modern world. Meets Core credit for historical reasoning. Offered infrequently.

ECON 438  EMPirical METHODS IN ECONOMICS  3
**Prerequisite:** ECON*232; 233; 332 or 333; MATH*208
This course is designed to teach students real world analysis of the empirical economic models. The techniques used to develop these models and collect the necessary data to test them are taught. Among the topics are simple, multiple, and special purpose regression models, statistical analysis of these models, and techniques for correcting the various problems found in statistical analysis, and the methods of communicating empirical research.

ECON 440  SENIOR ASSESSMENT  1
**Prerequisite:** All ECON coursework or concurrent
Assessment of the student's collaborative professional activity as well as the student's ability to apply key economic methods of analysis. The student will orally present the results of the collaboration with the research advisor. A comprehensive exam will be used to assess the student's knowledge of key methods of analysis.

**Education - Curriculum/Instruction (EDCI)**

EDCI 230PK  GRADUES PREK-12 FIELD EXPERIENCE I  1
**Prerequisite:** EDFN*130 or concurrent for foreign language majors; MUSIC*204 or concurs for music majors
Field hours: 45 Special studies and investigations and/or field experience at the teacher aide (observation/assistance) and small group level in working with school age youth in primarily rural/small town settings, with the focus being on PreK-6. Students may be concurrently enrolled in an appropriate methods course.

EDCI 230SEC AYA (7-12) FIELD EXPERIENCE I  1
**Prerequisite:** Concurrent with EDCI*287
This course is designed to provide education majors who seek a Adolescent to Young Adult license (7-12) with opportunities to observe the setting, organization, and climate of schools and to interact appropriately with students in individual, small group, and whole class settings. Emphasis is on the effects of school climate and methodology on individual students within a diverse group of school age youth. Students will complete 45 hours of field/clinical experience in a multi-cultural setting.

EDCI 232  INTRODUCTION TO THE PRINCIPLES OF INSTRUCTIONAL TECHNOLOGY  3
**Prerequisite:** None
Introduces the theories and principles of instructional technology. The five main areas of focus are research, theory and history of IT; visual literacy; evaluation of IT including information on design criteria, the relationship of IT to learning styles; and instructional computing experiences. To assist in developing a link between theory and practice, students will also have some hands-on experience with various forms of instructional technology and with problem solving techniques appropriate to the media.

EDCI 234  MIDDLE GRADES PHILOSOPHY, ORGANIZATION  3
**Prerequisite:** EDFN*130 or concurrent
The philosophy of middle level schools, the psychology of the preadolescent and adolescent student, the role of the teacher as counselor, teaming, curriculum and instruction.
Course Descriptions

EDCI 235  MIDDLE GRADES METHODS AND ASSESSMENT I  3
Prerequisite:  EDFN*130; EDCI*234 or concurrent; Waived for IS; concurrent with EDCI*236
The development of appropriate curriculum and instructional delivery and assessment procedures which meet the special needs of all middle level students.

EDCI 236  MIDDLE GRADES FIELD EXPERIENCE I  1
Prerequisite:  Concurrent with EDCI*234, EDCI*235
This course is designed to provide education majors who seek a middle grade license (4-9) with opportunities to observe the setting, organization, and climate of middle schools and to interact appropriately with students in individual, small group, and whole class settings. Emphasis is on the effects of school climate and methodology on individual students within a diverse group of adolescent and preadolescent students. Students will complete 45 hours of field/clinical experience in a multi-cultural setting.

EDCI 287  CURRICULUM/INSTRUCTION/ASSESSMENT GRADES 7-12  3
Prerequisite:  EDFN*202; concurrent with EDCI*230 7-12; Clinical hours: 4
Provides the student with classroom instructional skills, methods and strategies in secondary teaching fields from both the generalist and specialist approaches. Also includes a detailed analysis of the curriculum within the secondary schools and its effect upon classroom structures.

EDCI 306  MIDDLE GRADES/GRADES 7-12 READING INSTRUCTION  3
Prerequisite:  None
A course designed to promote understanding of literacy development at the middle/secondary school levels. The knowledge necessary to make and apply appropriate programmatic and instructional decisions including knowledge of the learner, the reading and writing processes, instructional strategies, materials and learning environments will be the focus of the course. Required for middle grade and grades 7-12 licensure.

EDCI 312  TEACHING READING WITH LITERATURE  3
Prerequisite:  EDCI*306; EDCI*140 for middle school licenses only
Provides an understanding of the selection and instruction of literature for the middle school student. Included in the required knowledge base is history, criticism, trends, authors, illustrators, types of literature, instructional strategies, and organization of literature instruction and programs.

EDCI 315  INTERNATIONAL STORYTELLING  3
Prerequisite:  See COM 315 for course description.

EDCI 316  TEACHING THE 21ST CENTURY ADOLESCENT - LANGUAGE ARTS  3
Prerequisite:  EDFN*202; EDCI*235 or EDCI*287
This course provides candidates with instructional methodologies appropriate for guiding students in grades 4-12 to meet the Ohio content standards for the English language arts. The course particularly focuses on methods for teaching the process of composition and for making and evaluating writing assignments in a variety of genres.

EDCI 317  TEACHING THE 21ST CENTURY ADOLESCENT - MATHEMATICS  3
Prerequisite:  EDFN*202; EDCI*235 or EDCI*287
This course is designed to prepare the middle childhood and AYA mathematics teacher to plan, deliver and assess effective instruction to adolescents. It will provide the student with classroom instructional skills, methods, and strategies for teaching mathematics in grades 4-12.

EDCI 318  TEACHING THE 21ST CENTURY ADOLESCENT - SCIENCE  3
Prerequisite:  EDFN*202; EDCI*235 or EDCI*287
This course is designed to prepare the middle childhood and AYA science teacher to plan, deliver, and assess effective instruction to adolescents. It will provide teacher candidates with classroom instructional skills, methods, and strategies for teaching science in grades 4-12.

EDCI 319  TEACHING THE 21ST CENTURY ADOLESCENT - SOCIAL STUDIES  3
Prerequisite:  EDFN*202; EDCI*235 or EDCI*287
This course is designed to prepare middle childhood to high school social studies teachers to plan, deliver and assess effective instruction to young adolescents. Emphasis in the course will include how teachers must respond to the unique developmental nature of the learner. As life-long learners teachers should be familiar with the National Council for the Social Studies, and other appropriate professional organizations, to help guide their professional development. Creating effective lessons, using appropriate assessment techniques and using the resulting data to drive instruction are central to the course objectives. Other topics include grading practices and building a positive learning environment while managing the class appropriately.

EDCI 330PK  GRADES PREK-12 FIELD EXPERIENCE II  3
Prerequisite:  EDCI*230; PSYC*218
This course provides teacher education students with effective classroom management skills for educating for diversity. During seminars and field experiences students will develop techniques for teaching students of diverse backgrounds and abilities including dealing with surface behavior problems, laws concerning teacher/student rights, and communicating with parents. Field experience may occur in urban/multicultural, suburban, or rural/small town setting with the focus being on grades 7-12.

EDCI 330SEC  AYA (7-12) FIELD EXPERIENCE II  3
Prerequisite:  EDCI*230, EDCI*287; PSYC*209 or PSYC*218 Field hours: 135
This course provides teacher education students with effective classroom management skills for educating for diversity. During seminars and field experiences students will develop techniques for teaching students of diverse backgrounds and abilities, including dealing with surface behavior problems, laws concerning teacher-student rights, and communicating with parents. Students should be concurrently enrolled in EDCI 432.

EDCI 332  INSTRUCTIONAL DESIGN AND ONLINE INTERACTION  3
Prerequisite:  EDCI*232
This course introduces the processes of instructional design in education and its foundation in behaviorism and general systems theory (GST). Students will use systems associated with instructional design to assess learning needs, design, develop, implement, and evaluate instruction.
EDCI 333 LEARNING MANAGEMENT SYSTEMS AND ONLINE ASSESSMENTS 3

Prerequisite: EDCI*332
This course provides students with the skills of managing a learning management system related to their curricular area and target age of licensing. Course objectives include effective planning and execution of learning activities, communication strategies and behaviors, transparency of assessment processes, and the provision of clear expectations in management and comportment.

EDCI 336 MIDDLE GRADES FIELD EXPERIENCE II 3

Prerequisite: Block I (EDFN*130, EDCI*234, 235, 236)
Provides opportunities to make decisions relating to assessment, instruction, evaluation, and intervention in the student's content areas of concentration and in interdisciplinary activities. Focus will be on implementing effective instruction and assessment with middle grades students in small group, individual and whole-class settings.

EDCI 383 VOCATIONAL INTEGRATED BUSINESS 3

Prerequisite: Junior status; concurrent with EDCI*330 or 461
Principle factors involved in the organization, implementation, practices and teaching procedures in vocational business education programs. A study of the methods and procedures relative to selection, instruction, evaluation and job placement. A study of the teaching methods and techniques in a vocational business education program.

EDCI 392 CONTENT AREA READING 3

Prerequisite: Clinical hours: 10
A course designed to provide teachers of all subject areas the knowledge to integrate the language processes, especially reading and writing in their instruction, to better enable students to learn a specified content. The course focuses on developing an understanding of instructional strategies which facilitate a learner's interaction with text.

EDCI 412 INTERVENTION & ASSESSMENTS FOR THE SECONDARY LEARNER 3

Prerequisite: 9 hours from these courses: EDEC*140, 262, 323, 361, EDCI*261, 306, 312, 392
This course focuses on a comprehensive approach to the teaching of reading and best practices in interventions and assessments for the secondary learner and provides students with the knowledge and skills they need to implement these methods in their own classrooms. The course will address reading strategies, interventions, and assessment for struggling readers and current research will include major areas of reading with theoretical models and effective teaching strategies.

EDCI 432 GRADES 7-12 METHODS: TEACHING SCIENCE, GRADES 7-12 TEACHING SOCIAL STUDIES, GRADES 7-12 3

Prerequisite: EDCI*230; Clinical hours: 4
A course designed to provide the student with classroom instructional skills, methods, and strategies in teaching grades 7-12 (exception Foreign Language is K-12). This class is to be completed successfully prior to the Internship.

EDCI 461 STUDENT INTERNSHIP: GRADES 7-12 10

Prerequisite: Completion of all student internship requirements
Supervised field experiences in secondary setting in certification area(s).

EDCI 467 STUDENT INTERNSHIP: MIDDLE GRADES 10

Prerequisite: Completion of all student internship requirements
A supervised field experience in middle grades.

EDCI 469 STUDENT INTERNSHIP – PREK-12 10

Prerequisite: Completion of all student internship requirements
Supervised field experiences in Pre-K-12 settings in licensure area(s).

Education - Early Childhood (EDEC)

EDEC 140 PHONICS AND THE ENGLISH LANGUAGE 3

Prerequisite: None
A study of English as an alphabetic language. Particular attention will be given to the grapho-phonemic patterns which have emerged through history. Classroom applications will be explored with specific emphasis on the role of phonics in a balanced literacy program.

EDEC 215 EC/ECIS FOUNDATIONS 3

Prerequisite: None
This course provides an overview of pertinent theories and models that have provided a foundation for both early childhood education and early childhood special education, including specific areas of ability that affect young children ages birth to eight with mild/moderate/intensive needs and gifted. Emphasis will be placed upon the discussion of the foundation of early childhood education, including early childhood special education, and current societal issues regarding young children and their education. Students will also become aware of the professional organizations (NAEYC and CEC/DEC) for early childhood education.

EDEC 262 FOUNDATIONS IN LITERACY 3

Prerequisite: None
A course designed to promote understanding of the development of literacy. The knowledge necessary to make and apply appropriate programmatic and instructional decisions including knowledge of the learner, the reading and writing processes, instructional strategies, materials and learning environments will be the focus of the course. Required for ECE/ECIS programs.

EDEC 265 ADULT-CHILD RELATIONSHIPS AND CLASSROOM MANAGEMENT 3

Prerequisite: None
An in-depth study of adult-child relationship within the context of the family, school, and community. The course addresses basic child guidance techniques, and also views child and adult behavior as part of a broader context. It examines individual traits of children and adults, diversity among families, and family and societal stresses as they relate to adult-child relationships. This course is blocked with EDEC 268 for Early Childhood majors.

EDEC 268 PRE-SCHOOL METHODS AND CURRICULUM 2

Prerequisite: PSYC*264
A methods course for Early Childhood majors focused on preschool methods and activities to learn and utilize authentic lessons and activities, classroom-based assessment, and how to interpret and use the information to plan curriculum that is responsive to and supportive of Pre-K children's development and learning.
EDEC 268F PREESCHOOL FIELD EXPERIENCE 1
Prerequisite: PSYC*264
A field experience in a preschool setting focused on preschool methods and activities to learn and utilize authentic lessons and activities, classroom-based assessment, and to demonstrate the teaching skills and dispositions supportive of Pre-K children's development and learning.

EDEC 323 TRADE BOOKS AND TECHNOLOGY 3
WITHIN A BALANCED LITERACY PROGRAM
Prerequisite: EDEC*262; concurrent with EDEC 330, 361
A study of the variety and uses of print and on-line resources available to the literacy provider in early childhood settings. Emphasis will be placed on the role of trade books and technology as part of a balanced literacy program for emerging readers and writers.

EDEC 330EC LITERACY/MULTICULTURAL FIELD EXPERIENCE 2
Prerequisite: EDIS*230IS or EDEC*268; EDEC*215; and successful completion of Teacher Education Screening Process; concurrent enrollment with EDEC*323 and 361. Field hours: 90
Seminars and field experiences in a multicultural setting provide teacher education students opportunities to make decisions relating to assessment, instruction, evaluating and intervention in their certification area(s) with small groups, individuals, or with the entire class.

EDEC 361 LANGUAGE ARTS AND READING CURRICULUM METHODS 3
Prerequisite: EDFN*202 and EDEC*262; concurrent with EDEC*330, 323
This course provides an understanding of the development of the language arts and instructional procedures that facilitate competent oral and written communication in the early childhood pre-K-grade 3 classroom.

EDEC 363 EARLY CHILDHOOD MATHEMATICS CURRICULUM & Methodology 3
Prerequisite: MATH*217; concurrent with EDEC*369, 403, 445, 417
A study of the curriculum content recommended for pre-kindergarten through the third grade, along with the instructional methodology appropriate for teaching the content. Emphasis will be placed on the content, processes, environment materials, and developmentally and individually appropriate practices for all learners.

EDEC 369 ASSESSMENT AND EVALUATION OF YOUNG CHILDREN WITH SPECIAL EDUCATIONAL NEEDS 3
Prerequisite: PSYC*264; concurrent with EDEC*363, 403, 445, 417; Clinical Hours: 5
A comprehensive course designed to address pertinent issues, as well as procedures, of assessment and evaluation of young at-risk and handicapped children. Participants will be involved in local programs that service families of and/or at-risk and handicapped young children.

EDEC 400 BEHAVIOR & SOCIAL INTERVENTION 3
Prerequisite: EDEC*215
Comprehensive studies of positive classroom and individual student management techniques. Emphasis is on developing appropriate strategies for young children with diverse backgrounds and developmental needs.

EDEC 403 EARLY INTERVENTION AND INTEGRATION FOR YOUNG CHILDREN WITH SPECIAL EDUCATIONAL NEEDS 3
Prerequisite: PSYC*264; concurrent with EDEC*363, 369, 445, 417; Clinical hours: 5
A study of early intervention models, current trends, and service delivery for children from birth through grade three with mild, moderate, intensive, and talent potential needs and their families. Emphasis will be placed on evidence based intervention strategies, developmentally appropriate practice, and the role of family.

EDEC 411 ASSESSMENT AND INTERVENTION IN THE INTEGRATED LANGUAGE ARTS 3
Prerequisite: 9 hrs from EDEC*140, 262, 323, 361, EDCI*261, 306, 312, 392
This course provides experiences in using focused and ongoing assessment to develop instruction that is responsive to the needs of K-12 students who are struggling with literacy. The lab component of this course requires the participant to implement the assessment/instructional process with specific children and to effectively document and present children's progress.

EDEC 417 SENIOR FIELD EXPERIENCE IN CONTENT TEACHING AND INTERVENTION 3
Prerequisite: EDEC*330EC and successful completion of the Teacher Education Screening Process; concurrent enrollment with EDEC*363, 369, 403, 413, 414; Field hours: 115
Seminars and field experiences in an early childhood placement provide senior teacher education students the opportunity to implement and practice methods learned in previous and concurrent courses. The field-based participation is within a program that serves young children with special educational needs within the general education curriculum. It is in preparation for the student internship experience.

EDEC 445 INTERDISCIPLINARY SCIENCE AND SOCIAL STUDIES METHODS 3
Prerequisite: EDEC*330EC and successful completion of the Teacher Education Screening Process; concurrent enrollment in EDEC 363, 369, 403, and 417
A study of the science and social studies curriculum content recommended for pre-kindergarten through grade three, along with the instructional methodology appropriate for teaching that content. Emphasis will be placed upon content, processes, using resources in the environment and community, materials, and differentiation and learning conditions for all learners.

EDEC 448 BIO-MEDICAL ISSUES FOR EARLY CHILDHOOD PROFESSIONALS 3
Prerequisite: EDEC*215 or EDIS*250
A study of biological, physiological and medical issues and conditions as they relate to the developing child from birth to age 8. The importance of understanding these issues in relations to the appropriate education and support of young children and their families is emphasized. Individual considerations that affect typical development or educational environment (e.g. attention problems, allergies, disabilities, etc.) are explored and appropriate techniques and resources for reducing the impact of these conditions on the child and learning potential are examined. EDUC/NUR credit.
EDIS 245 INTERNATIONAL PERSPECTIVES ON DISABILITY
Prerequisite: None
This course will explore the various theories of disability (ableism/disablism, social, and medical models) and how disability is interpreted by the larger society. People with disabilities are often viewed at being deviant, stigmatized and incompetent and therefore, are marginalized from the normal population. This course will explore the construct of disability through the lens of race, gender, socio-economic class, geographic region and popular culture's presentation of disability in media. Meets Core credit for social sciences and GPS-Border Crossings.

EDIS 250 INTRODUCTION TO EDUCATIONAL INTERVENTION
Prerequisite: None
Designed to review the history, legislation, legal definitions, characteristics, and educational concerns of students with need for mild/moderate/intensive educational intervention. Issues of assessment, identification, individualized educational programming, educational trends, service alternatives, and professional resources will be emphasized.

EDIS 251 ORIENTATION TO DEAF CULTURE AND INTRO TO AMERICAN SIGN LANGUAGE
Prerequisite: Field/Clinical hours: 20
An introduction to deaf culture, etiology, advocacy groups related to the deaf and/or nonverbal communication methods. Historical, sociological and literary aspects will also be studied. Develops elementary conversational skills in sign language. May not be used to fulfill the foreign language requirement.

EDIS 253 ASSISTIVE AND INSTRUCTIONAL TECHNOLOGY FOR INTERVENTION SPECIALIST
Prerequisite: Concurrent with EDIS*230IS, 257, 451;
Trains students to use technology and materials specifically to teach and assist exceptional learners. Adaptations to technology and materials typically available and those specifically designed to assist the learner with challenges will be studied.

EDIS 257 SENSORY MOTOR-INTERVENTION SPECIALIST MODERATE/INTENSIVE
Prerequisite: For Intervention K-12; EDIS*250, concurrent with EDIS*230IS, 253, 451; for Early Intervention PreK-3; EDEC*215, concurrent with EDIS*230IS, 253
Provides curriculum models, specialized methods, materials and equipment to teach students with moderate and intense special needs in the areas of vision, hearing, sensory motor, physical and health needs.

EDIS 330IS WORKSHOP IN TEACHING STUDENTS WITH MILD/MODERATE/INTENSIVE EDUCATIONAL INTERVENTION IN MULTICULTURAL SETTINGS
Prerequisite: EDIS*230IS, EDCI*230SEC; concurrent with EDIS*441, EDIS*451; Field hours: 110
Seminars and field experience to afford students working toward Intervention Specialist licensure opportunities to teach students with need for mild/moderate/ intensive educational intervention in inclusive multicultural environments.
### Course Descriptions

#### EDIS 342  ASSESSING AND TEACHING CHILDREN WITH MILD/MODERATE EDUCATIONAL NEEDS

**Prerequisite:** EDIS*230IS, 250, EDCI*236; Field/Clinical hours: 30 - in after school lab program; Concurrent with EDIS*355

Explores and applies a variety of curriculum options, methods, materials, and technology available for students with mild/ moderate educational needs.

#### EDIS 343  CURRICULUM/METHODS FOR CAREER AND DAILY LIVING SKILLS FOR STUDENTS WITH NEEDS FOR MILD/MODERATE/INTENSIVE EDUCATIONAL INTERVENTION

**Prerequisite:** EDIS*230IS, 250, EDCI*236; concurrent with EDIS 330IS, 441;

Emphasis is on curriculum, methods, materials, and technology to be used in teaching career, self-care, community living, personal-social, and occupational skills to students with needs for mild/moderate/intensive educational intervention.

#### EDIS 355  INTERVENTION & REMEDIATION IN MATH: ASSESSMENT AND INSTRUCTIONAL METHODS

**Prerequisite:** For IS Majors: EDCI*230SEC, 236;EDIS*250 EDIS*250; concurrent with EDIS*342 For all others: successful completion of sophomore level field experience

This course is designed to teach students assessment and instructional techniques for working with individuals grades K-12 in need of intervention and remediation in mathematics based on the Common Core Mathematics Standards. Emphasis will be placed on working with students with mild to intensive need for educational intervention.

#### EDIS 405  LEGAL, SOCIAL AND PROFESSIONAL ISSUES FOR INTERVENTION SPECIALISTS

**Prerequisite:** Teacher education student; senior status

A course designed to study current issues in education, with a view toward understanding the issues surrounding special education and its role within education as a social institution. Students review the American legal system and laws governing special education at federal and state levels and address issues from a teaching perspective. Special education law, social, historical, and philosophical effects will be explored. The course includes procedures specific to programs for learners with need for educational intervention.

#### EDIS 430  WORKSHOP IN TEACHING INTERVENTION SPECIALIST MODERATE/INTENSIVE

**Prerequisite:** EDIS*230IS and 330IS; concurrent with EDIS*451 (except for ECIS); Field/Clinical hours: 100-150

Seminars and field experiences with students who have moderate to intensive educational needs, enabling students to assess, teach, and team with others in the educational community.

#### EDIS 441  CREATING EFFECTIVE LEARNING ENVIRONMENTS

**Prerequisite:** EDIS*250, EDIS*230SEC, EDIS*230IS; concurrent with EDIS*330IS, EDIS*451

This course is designed to introduce the social and emotional growth and needs of students with emotional and/or learning differences. This course teaches pre-service teachers how students with behavior of concern in school settings may be identified as eligible for special education, how to systematically approach functional behavior assessments, and how to work with a team to construct effective behavior intervention plans using multiple methods of teaching whose behavior interferes with education. Emphasis is on an educative rather than punitive approach to changing behavior.

#### EDIS 442  COMMUNICATION, CONSULTATION, AND TEAMING SKILLS

**Prerequisite:** EDIS*250

Provides an understanding of effective verbal and nonverbal communication skills, listening skills, and personality traits perceived as supportive. Emphasizes the development of sensitivity to the needs of individuals, families and professionals; collaboration, consultation and teaming; and skills of problem solving, effective handling of confrontational situations, and seeking and using support from other professionals.

#### EDIS 445  ADVANCED BEHAVIOR MANAGEMENT

**Prerequisite:** EDIS*441; concurrent with EDIS*330IS or student internship

Teaches preservice and inservice teachers how students with behavior of concern in school settings may be identified as eligible for special education, how to systematically approach functional behavior assessment, how to work with a team to construct effective behavior intervention plans, and multiple methods of teaching whose behavior interferes with education how to manage and change their responses to eliminate or minimize such interference. Emphasis is on an educative rather than punitive approach to changing behavior.

#### EDIS 450  LANGUAGE/COMMUNICATION DISORDERS IN CHILDREN AND INTERVENTION

**Prerequisite:** EDIS*250; Field Hours: 2

An overview of language, both normal and disordered, with emphasis on terminology, acquisition, development, physiological and psychological systems, impact upon learning, assessment, and intervention strategies available to teachers.

#### EDIS 451  COMMUNICATION: INTERVENTION SPECIALIST MODERATE/INTENSIVE

**Prerequisite:** EDIS 250 or EDEC 215; EDIS 230IS or concurrent

Reliable communication is a vital skill to self-expression. Individuals who experience sensory, motor, perceptual, or executive function differences may develop communication systems that are not reliable means of self-expression. Prospective intervention specialists will learn how typical language and communication develop, how differences in this development may result in communication which is less than complete self-expression, and how to support and teach more complete and reliable self-expression in students K-12. Increasing techniques of communicative support will be instructed and fading or increasing these supports will be discussed.
EDIS 464 Student Internship: Intervention Specialist Moderate/Intensive 10
Prerequisite: Completion of all internship requirements; Field hours: 300
Supervised 12-week internship with an Intervention Specialist in a school setting.

EDIS 465 Student Internship: Intervention Specialist Mild/Moderate 10
Prerequisite: Completion of all internship requirements; Field hours: 300
Supervised 12-week Internship with an Intervention Specialist in a school setting.

EDIS 466 Internship: Intervention Specialist Mild/Moderate/Intensive 10
Prerequisite: Completion of all student internship requirements
Supervised field experience with an Intervention Specialist in a school setting. Individuals seeking Intervention Specialist licensure must complete this field in an inclusive setting.

Education - General (EDUC)

EDUC 100 University Reading Improvement 1-3
Prerequisite: NONE
This course is recommended for students who wish to work on individual reading needs such as 1) reading rate, 2) comprehensive proficiency, 3) vocabulary building, and 4) reading study skill techniques. Course will be graded A, B, C, or U.

EDUC 102 University Study Skills 3
Prerequisite: NONE
This course introduces the study skills crucial to academic success. Emphasis is placed on practice in time management, listening, taking class notes, preparing for examinations, reading textbooks, writing papers, vocabulary building, problem-solving and utilizing educational resources. Course will be graded A, B, C, or U. If a U is earned, course must be repeated.

EDUC 371 Special Topics 1-9
Prerequisite: NONE
Special topics seminars which will include topics such as early childhood/preschool, foreign language, reading, elementary/secondary education and topics pertinent to school treasurer/school business manager. All topics must be approved by the Associate Dean of the College of Education.

EDUC 470 Internship 5-10
Prerequisite: Field Hours: 150-300
This is an intensive experience in a field agency setting conducted under the joint supervision of an on-site professional and a University representative. The approved setting selected is specifically related to the professional goals of the student. The student may receive compensation during this experience if such an arrangement is deemed appropriate by the University and the agency providing the experience.

English (ENG)

ENG 100 College Writing Improvement 3
Prerequisite: None
This course focuses on fundamentals of grammatical form and compositional structure in order to improve writing skills required for college-level papers. Students are placed in the course by ACT/SAT scores and high school records. The course is graded S/U; a grade of U requires that the course be repeated until the student achieves an S. It does not satisfy the Core composition requirement and is not open to students with credit in ENG 101 or 102. Section AA is designated for international students.

ENG 101 English Composition I 3
Prerequisite: ENG 100 if required by placement
This course stresses the development of effective grammatical and rhetorical form through the assignment of expository and argumentative writing projects. Students will learn to reflect on ideas and observations, to use writing as a tool to sharpen those ideas, to reflect on their own writing process, and to use and cite sources accurately. May not be taken for S/U credit. Meets core credit for composition I.

ENG 102 English Composition II 3
Prerequisite: ENG*101
English 102 is the second course in Ashland University's two-semester writing sequence and involves continued emphasis on the writing process, critical thinking, close reading, the rhetorical nature of language, and research skills. The course requires frequent writing and may not be taken for S/U credit. Meets core credit for composition II.

ENG 110 Writing Laboratory 1
Prerequisite: None
This course offers individualized instruction and practice in writing skills for all academic writing assignments, including grammar, punctuation, sentences, paragraphs, and the short essay. Graded S/U. May be repeated once for additional credit. Does not fulfill general education or English requirement.

ENG 201 Introduction to Creative Writing 3
Prerequisite: None
This course introduces basic techniques and forms of poetry, fiction, and nonfiction. Regular writing and reading assignments illustrate specific aspects of poetic and prose narrative form.

ENG 203 American Literature 3
Prerequisite: ENG 102
This course focuses on a specific problem or question in American society from the colonial period to the present. Possible areas of focus might include Race and Slavery; Nature and the Environment; Freedom, Democracy, and the Individual; Immigration and Nativism; Gender in America; or America at War. Meets Core credit for humanities.

ENG 210 Bible as Literature 3
Prerequisite: ENG 102
The course involves a sustained study of representative Biblical texts using the tools of literary analysis and approaches the Bible as literature from a social, historical, and literary perspective. Meets Core credit for humanities.
Course Descriptions

ENG 217 BRITISH LITERATURE 3
Prerequisite: ENG 102
This course involves a sustained study of selected texts of British literature and emphasizes literary content as statement of moral and philosophic attitudes in British writers. Meets Core credit for humanities.

ENG 301 WRITER'S WORKSHOP: POETRY 3-9
Prerequisite: ENG*101 and 201
This is a seminar in the writing of poetry. Professors with extensive publication experience conduct the workshop. May be repeated twice for credit.

ENG 302 WRITER'S WORKSHOP: NONFICTION/FICTION 3-9
Prerequisite: ENG*101 and 201
This is a seminar in the writing of fiction and creative nonfiction. Professors with extensive publication experience conduct the workshop. May be repeated twice for credit.

ENG 303 WRITER'S WORKSHOP: SCREENWRITING 3-6
Prerequisite: ENG*101
This course familiarizes students with various approaches and techniques for writing screenplays. Focus will be on dramatic structure, character, and dialogue, with the goal of writing a screenplay, a presentation treatment of the film, and shorter analytical assignments. May be repeated once for credit.

ENG 304 SHORT STORY 3
Prerequisite: ENG 102
This course is an intensive study of the short story as a literary genre with particular attention to narrative construction and to techniques used by authors. Meets Core credit for humanities.

ENG 306 THE ESSAY 3
Prerequisite: ENG 102
This course is an analysis of the essay as both literary genre and source of ideas. Student writing may include essay composition.

ENG 308 THE POEM 3
Prerequisite: ENG 102
The course focuses on poetry and poetics. Meets Core credit for humanities.

ENG 309 AFRICAN AMERICAN LITERATURE 3
Prerequisite: ENG 102
This course closely examines representative works by African American writers, ranging from early slave narratives to contemporary prose, poetry, and drama. Meets Core credit for humanities.

ENG 310 LITERATURE FOR ADOLESCENTS 3
Prerequisite: ENG 102
This course examines representative literature written for adolescents and emphasizes learning styles and the integration of literature into thematic units in secondary school classrooms. This course is intended for Integrated Language Arts and Middle School Language Arts students who are pursuing a teaching degree.

ENG 314 LITERATURE AND GENDER 3
Prerequisite: ENG 102
This course focuses on representative texts written by women across a variety of periods and examines the way in which women's experience has shaped their writing. Meets Core credit for humanities.

ENG 315 GERMAN LITERATURE IN TRANSLATION 3
Prerequisite: ENG 102
This course involves reading and discussion of a number of major writings in German literature. The students will read short stories, novels, poetry, and non-fiction. Some of the themes include the conflict between artistic and bourgeois values, class and ethnic conflict, legal issues, aesthetic concerns, and contemporary cultural movements. Meets Core Requirements for Humanities and GPS-Border Crossings.

ENG 316 POSTCOLONIAL LITERATURE 3
Prerequisite: ENG*102
This course focuses on literatures shaped by colonialism and imperialism. The course emphasizes in-depth study of colonial and postcolonial literature supported by an understanding of the historical, social, cultural, and political contexts of that literature. Meets Core credit for humanities and GPS-Border Crossings.

ENG 317 STUDIES IN SHAKESPEARE 3
Prerequisite: ENG 102
Students will read examples of Shakespearean histories, comedies, romances, and tragedies, exploring language and dramatic technique to develop an understanding of the structure and themes. Meets Core credit for humanities.

ENG 319 MODERN DRAMA 3
Prerequisite: ENG 102
This course studies European and American drama from the late 1800s to the present. Meets Core credit for humanities.

ENG 322 MODERN POETRY 3
Prerequisite: ENG 102
This course focuses on close reading of selected modern poems and discusses the ways in which modern poetry differs from earlier work in English. Meets Core credit for humanities.

ENG 324 MODERN NOVEL 3
Prerequisite: ENG 102
This course analyzes the modern novel as art form and as social document. Representative novels in English and/or English translation will be examined to explore a central question: How is the modern novel a reaction to the problems and issues of modernity? Meets Core credit for humanities.

ENG 325 MAJOR WRITERS SEMINAR 3
Prerequisite: ENG 102
This course provides a comprehensive understanding of one or more major writers. Class assignments will include extensive reading of the works of the particular writers, supplemented by critical, biographical, and historical materials. This course may be repeated under different suffixes.

ENG 330 AFRICAN LITERATURE 3
Prerequisite: ENG 102
This course emphasizes the study of literature produced on the African continent during the pre-colonial, colonial, and post-colonial periods. Primary texts will be supplemented by critical, cultural, and historical materials related to Africa. The course traces the themes of African nationalism and post-colonialism as dramatized in the works of major African authors. Meets Core credit for humanities and GPS-Border Crossings.
ENG 332  GLOBAL FILM  3
Prerequisite: ENG 102
This course will emphasize the historical or contemporary practice of non-U.S. cinemas, focusing on one national cinema per course. Students explore the cinema of a country, region, or linguistically-related collection of countries focusing on intersections of aesthetics, socio-historical context, ideology, and film industry practices. Meets Core credit for aesthetics and GPS-Border Crossings.

ENG 333  AMERICAN STUDIES - 19TH CENTURY  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion and/or culture from the 19th century, this course focuses on how literature captures the American spirit. Meets Core credit for humanities.

ENG 334  AMERICAN STUDIES - 20TH CENTURY  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion and/or culture from the 20th century, this course focuses on how literature captures the American spirit. Meets Core credit for humanities.

ENG 338  THEMES AND TOPICS IN LITERATURE  3
Prerequisite: ENG 102
This course explores a major idea or theme through a wide range of literary and related texts. Typically, the seminar will focus on a particular historical, social, or artistic idea. Meets Core credit for humanities.

ENG 340  READINGS IN JEWISH LITERATURE  3
Prerequisite: ENG 102
This course involves reading and discussion of a number of major works of Jewish literature. Students will read short stories, novels, and a memoir; some themes include religious faith, silence, the father-son relationship, gender issues, grief, wisdom, and folly. Meets Core credit for humanities.

ENG 350  CONTEMPORARY AMERICAN STUDIES  3
Prerequisite: ENG 102
An examination of a particular topic of American literature, history, religion, and/or culture from contemporary life, this course considers a body of literature, generally published within the previous twenty years, about which historical conclusions are still largely unformed. Meets Core credit for humanities.

ENG 351  ADVANCED COMPOSITION  3
Prerequisite: ENG 102
This is an advanced course in compositional form and expression emphasizing development of effective rhetorical and stylistic techniques. Students will analyze the work of representative authors. Writing assignments emphasize stylistic control and conceptual development.

ENG 360  LITERATURE OF CRIME AND RETRIBUTION  3
Prerequisite: ENG 102
This course emphasizes close analysis of literature on themes including evil, faith, insanity, racism, motiveless malignity, and psychological theories. Meets Core credit for humanities.

ENG 365  GREEK LITERATURE  3
Prerequisite: ENG 102
This course will address the question, What was the Greek view of men and women in relation both to each other and to the gods as revealed in their literature? Readings will include at least one of the Homeric epics together with a selection of the plays of Aeschylus, Sophocles, and Euripides. Meets Core credit for humanities.

ENG 370  RUSSIAN NOVEL  3
Prerequisite: ENG 102
Students will discuss Tolstoy's War and Peace and Dostoevsky's The Brothers Karamazov. Among the many questions these monumental novels raise, perhaps the most important is how we can maintain our humanity in the face of suffering. Meets Core credit for humanities.

ENG 371  LITERATURE AND FILM  3
Prerequisite: ENG 102
This course emphasizes film aesthetics and visual narrative as it compares written literary narrative. The course focuses on both classic and contemporary motion pictures, with particular attention to shot composition, editing techniques, lighting, and sound. Students will consider how these elements of film direction create a visual narrative that can be studied as aesthetic and cultural expression. Meets Core credit for aesthetics.

ENG 372  NIETZSCHE AND THE PROBLEM OF VALUES  3
Prerequisite: ENG 102
Students taking this course will read a major work of Nietzsche's such as Thus Spake Zarathustra or The Twilight of the Idols together with other selected literary and philosophical texts by such authors as Heidegger, Shakespeare, Dostoevsky, and Melville from both philosophical and literary perspectives to determine how and why human beings create values. Meets Core credit for humanities.

ENG 401  THE LITERATURE OF EARLY ENGLAND  3
Prerequisite: ENG 102
This course is a high-level study of the literature of England from the Anglo-Saxon period through the time of Chaucer with particular emphasis on the rhetorical features of Old and Middle English. The students will focus on a close reading of The Canterbury Tales and will also read other works, including Beowulf.

ENG 404  THE ENGLISH RENAISSANCE  3
Prerequisite: ENG 102
A high-level study of England's literature of the Elizabethan period, this course focuses on poetry and drama. Representative writers include Spenser, Marlowe, Shakespeare, and Webster.

ENG 405  PROBLEMS IN CREATIVE WRITING  3
Prerequisite: ENG*301, 302
This course is concerned with the development of individual style and voice in student writing. The course is conducted by professors with extensive publication experience.

ENG 406  17TH CENTURY ENGLISH LITERATURE  3
Prerequisite: ENG 102
This course is a high-level study of material written in England and some of its colonies during the 17th century. Class discussions are set within the context of the political and religious strife during a century building up to the English Civil War and then reckoning with its aftermath.


**Course Descriptions**

**ENG 408 18TH CENTURY ENGLISH LITERATURE** 3

*Prerequisite: ENG 102*

This course is a high-level study of both traditional and emergent literary traditions, from neoclassicism to sentimentalism and from satire to sensibility. This literary time period is framed by two major political revolutions: the Glorious (or Bloodless) Revolution and the French Revolution.

**ENG 410 ROMANTIC MOVEMENT** 3

*Prerequisite: ENG 102*

This course is a high-level study of literary expression in the Romantic movement in 19th century England and the critical background of the period.

**ENG 411 VICTORIAN PERIOD** 3

*Prerequisite: ENG 102*

This course is a high-level study of major texts and critical background of the Victorian period.

**ENG 413 20TH CENTURY ANGLOPHONE LITERATURE** 3

*Prerequisite: ENG 102*

This course is an exploration of the literature of Great Britain, Ireland, and the Anglophone world other than America in the 20th century. Students may read some literature in translation.

**ENG 415 CAPSTONE COURSE IN CREATIVE WRITING** 3

*Prerequisite: ENG*301, 302

This course is concerned with the editing and presentation of the student's literary output. The principal work of the class will be the revision and presentation of the student's writing over his/her college writing career.

**ENG 417 ENGLISH GRAMMAR & USAGE** 3

*Prerequisite: ENG 102*

This course will provide students with knowledge of grammar, syntax, and mechanics. It is designed for those preparing to be teachers of English and Language Arts as well as for those who wish to extend their knowledge of the language.

**ENG 418 HISTORY OF THE ENGLISH LANGUAGE** 3

*Prerequisite: ENG 102*

This course focuses on the history of the English language, its many dialects, and vocabulary development from root words and derivational affixes. The course is designed for English majors and minors wishing to improve their knowledge of the history of the language, as well as those who will be teachers of secondary school English and language arts.

**ENG 425 AMERICAN LITERATURE I: COLONIAL TO FEDERALIST** 3

*Prerequisite: ENG 102*

This course is a high-level study of American writing from the Puritan period to 1845 with emphasis on the emergence of a particular American identity as expressed in literature of the period together with critical commentary.

**ENG 426 AMERICAN LITERATURE II: 1830 TO 1870** 3

*Prerequisite: ENG 102*

This course is a high-level study of American writing during the period with emphasis on Transcendentalism as a dominant literary and intellectual movement.

**ENG 427 AMERICAN LITERATURE III: REALISM TO MODERNISM** 3

*Prerequisite: ENG 102*

This course is a high-level study of the American Literary consciousness from the late 19th century to the end of WWII with emphasis on social changes produced by urbanization and industrialization as reflected in the literature of the period and in critical commentary.

**ENG 428 AMERICAN LITERATURE IV: FROM WWII TO THE PRESENT** 3

*Prerequisite: ENG 102*

This course is a high-level study of American literature from 1945 to the present with emphasis on social and cultural changes reflected in the literature of this period and in critical commentary.

**ENG 432 GRADES 7-12 METHODS: TEACHING ENGLISH/LANGUAGE ARTS, GRADES 7-12**

*Prerequisite: EDCI*230; Clinical Hours: 4

This course provides students with classroom instructional skills, methods, and strategies in teaching grades 7-12. This class is to be completed successfully prior to the Internship.

**Entrepreneurship (ENTP)**

**ENTP 245 INTRODUCTION TO ENTREPRENEURSHIP** 3

*Prerequisite: None*

This course will introduce students to the fundamental concepts of entrepreneurship. Special emphasis will be placed on learning how to develop an idea into a commercial opportunity. Students will learn how to write a feasibility plan for a real product or service and perform a market test of the proposed product or service.

**ENTP 345 ENTREPRENEURIAL AND FAMILY BUSINESS MANAGEMENT** 3

*Prerequisite: ENTP*245, MGT*240, MKT*233

This course examines the special challenges of family business and other closely held corporations. Attention is devoted to family business planning, effective governance approaches in family businesses, preparing heirs for entry into and management of family firms, tax and compensation planning, and succession strategies.

**ENTP 365 ENTREPRENEURIAL STRATEGIES & TACTICS** 3

*Prerequisite: ENTP*245, MGT*240, MKT*233

This course introduces the students to critical, integrative issues involved in the development and marketing of new products and services. The marketing and operations planning includes researching issues that are relevant for new ventures for small and growing organizations. Topics include the creativity, design of products, product promotion, feasibility study, location, physical layout, the evaluation of market potential (market research), pricing strategies, and the development of distribution relationships.
ENTP 445 NEW VENTURE CREATION 3  
Prerequisite: MKT*233, MGT*240, ENTP*245  
This course will focus on the process of developing a new commercial venture and the writing of a business plan. Students will also learn small business management principles for creating and operating a startup venture. Developing actual business opportunities by students will be encouraged so that business plans can be submitted to business plan competitions and investor groups after the course is finished.

ENTP 465 FINANCING A BUSINESS VENTURE 3  
Prerequisite: ENTP*345, 365, 445  
This course emphasizes the aspects of legal, tax, and unique financing in a new venture or emerging company which is critically important to the entrepreneur and venture manager. The financial aspects of small businesses and entrepreneurial ventures include unique alternatives of financing, the different valuation techniques, and key tactics and approaches in negotiating a purchasing price for a business. Legal and tax strategies are investigated for start-up and emerging enterprises. Studies are conducted in investigating the formation, financing, and managing of the new venture form a legal and tax standpoint.

Exercise Science (EXS)  

EXS 190 ANATOMY AND PHYSIOLOGY FOR THE EXERCISE SCIENCES 4  
Prerequisite: None  
An examination of human structure and function with an emphasis on the applied aspects of anatomy, physiology, and human motor development as related to the exercise and sport sciences.

EXS 210 EXERCISE MANAGEMENT OF CARDIORESPIRATORY PATHOPHYSIOLOGY 2  
Prerequisite: EXS*190  
A detailed study of the physiology of the cardio respiratory system in both normal and pathologic conditions, with an emphasis on the role of exercise and other lifestyle modifications in the treatment and prevention of cardio respiratory pathologies.

EXS 258 PHARMACOLOGY FOR EXERCISE SCIENCES 3  
Prerequisite: None  
This course will cover various topics related to exercise science and physical activity. The student will gain a physician's and/or allied health care professional's perspective on treatment as it relates to a variety of general medical conditions, cardiovascular disease and pharmacology related to sports and physical activity.

EXS 261 MEDICAL TERMINOLOGY 3  
Prerequisite: None  
An introduction to basic word elements—roots, suffixes, prefixes, and combining forms used by the health and human service professions. Knowledge of proper spelling, definitions, pronunciations, and usage of medical terms related to body systems.

EXS 308 KINESIOLOGY 3  
Prerequisite: EXS*190 or BIO*125 or AT*165  
A study of the relationship of anatomical, physiological and mechanical principles to the muscular movement of homo sapiens. (Also PE) ES/PE credit.

EXS 309 PHYSIOLOGY OF EXERCISE 3  
Prerequisite: EXS*190 or BIO*125 or AT*165  
The applied study of the functioning of the systems of the human body during exercise.

EXS 310 ADVANCED PHYSIOLOGY OF EXERCISE 3  
Prerequisite: EXS*309  
An advanced examination of how the body responds and adapts to disruptions in homeostasis resulting from physical activity, with an emphasis on the biochemistry/endocrinology of exercise. Training/laboratory methods in exercise physiology will be included.

EXS 312 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION I 2  
Prerequisite: EXS*309  
An introduction of fitness evaluation and exercise prescription. Concepts, principles, and theories for the fields of exercise physiology, kinesiology nutrition, and tests and measurements will be presented and applied to physical fitness testing and the design of exercise programs for apparently healthy individuals.

EXS 313 FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION II 2  
Prerequisite: EXS*312  
A continuation of ES 312 with an emphasis on fitness evaluation and exercise prescription for individuals with known pathology. Exercise stress testing protocols and basic interpretation of the electrocardiogram will be included.

EXS 314 GROUP EXERCISE LEADERSHIP 3  
Prerequisite: EXS*312  
This course is designed to develop proficiency in teaching skills specifically for group exercise. The focus of the course is on the standards of basic exercise guidelines, correct performance, instructional technique, and presentation. These standards are aligned with those of the Aerobic and Fitness Association of America (AFAA).

EXS 343 ACTIVE AGING AND WELLNESS 3  
Prerequisite: None  
An examination of the role that lifestyle, nutrition, physical activity and/or exercise play in modifying physiological/functional age and in determining the quality of life of older adults.

EXS 420 STRENGTH TRAINING PHYSIOLOGY 3  
Prerequisite: EXS*309  
An extensive examination of the physiological basis for muscular strength and power. The student will become familiar with various approaches to strength training, such as high intensity training, periodization of training, etc. The student will have the opportunity for NSCA certification during the course.

EXS 430 EXERCISE FOR PERSONS WITH CHRONIC DISEASES 3  
Prerequisite: EXS*309  
An examination of common pathologies across the life-span and their implications for exercise participation. The student will become familiar with contraindications inherent for a particular pathology and learn how to modify exercise programs to accommodate individual needs/ capabilities.
FM 111 CLOTHING & CULTURE 3
Prerequisite: None
The course explores the social, psychological, and cultural aspects of clothing and appearance. It includes the relationship of clothing and appearance to physical and social environments, aesthetic and personal expression, and cultural ideals and values. Meets Core credit for GPS-Border Crossings.

FM 312 READY TO WEAR ANALYSIS 3
Prerequisite: FM*112
The examination and evaluation of ready-to-wear apparel and its details for construction, style, quality, and fit. Apparel manufacture terms, techniques, production methods and costing will be discussed.

FM 316 TEXTILES 3
Prerequisite: CHEM*251
An in-depth study of fibers, yarns, fabric constructions, and finishes of the fabrics currently in use for clothing and the household. Labeling, comparative consumption, and the economics of textiles are studied.

FM 317 FASHION INDUSTRY 3
Prerequisite: None
The history and development of the fashion industry, its operation, merchandising activities, and current industry trends, from the producers of raw materials to retail distribution of consumer goods.

FM 318 INTERNSHIP 3
Prerequisite: Junior standing
Practical work experience in major subject areas of FM. Students are required to spend 150 hours internship experience. Follow-up seminar includes portfolio and resume development, interview skills, and business etiquette.

FM 413 FASHION STUDIO II 3
Prerequisite: FM*112
Principles of apparel design by flat pattern methods. Advanced fitting techniques used to create a master pattern. Students will design and construct original fashion designs.

FM 416 FASHION MERCHANDISING 3
Prerequisite: FM*317
Includes planning, buying, and selling of fashion merchandise through various distribution channels; fashion management, organization, operations, and image; pricing and retail math; fashion promotion and visual merchandising.

FM 417 FASHION EVOLUTION 3
Prerequisite: None
A chronological study of costume and textiles from ancient civilizations to modern times. Historical and cultural aspects as they influenced period costume will be discussed.

FM 430 FASHION PROMOTION 3
Prerequisite: FM*416
This course focuses on the comprehensive nature of promotion in the merchandising environment of fashion and related goods. Concepts, perspectives, and methods for the development and implementation of integrated marketing communications programs for fashion retailers are analyzed and critiqued. Students plan and develop promotional strategies.
FM 441 INTERIOR DESIGN 3
Prerequisite: None
Application of design principles to furnishing home and other interiors including study of backgrounds, furniture, textiles and accessories, consideration of aesthetics economics and social factors affecting choice.

Finance (FIN)

FIN 228 FINANCIAL MANAGEMENT 3
Prerequisite: ACCT*201
An introduction to the finance function: the obtaining and efficient use of capital in a business setting. Specific topics include risk and return analysis, financial planning, decisions involving assets and equities, and the financial structure of the firm.

FIN 322 PERSONAL ASSET MANAGEMENT 3
Prerequisite: Sophomore status
This course is designed to introduce students to methods of effective money management. Topics discussed in this course will range from setting realistic financial goals to various methods that can be employed to accomplish those goals. This course demonstrates how to successfully face all the personal finance issues in the real world.

FIN 329 INTERMEDIATE FINANCIAL MANAGEMENT 3
Prerequisite: FIN*228
This course presents financial theory in a decision-making context. The course will emphasize long-term funding, optional capital structure, the cost of capital, and capital budgeting.

FIN 330 PRINCIPLES OF INVESTMENT 3
Prerequisite: FIN*228
An introduction to the analysis of investments in financial assets, both in an individual and a portfolio context; the characteristics and evaluation of specific investment vehicles.

FIN 358 FINANCIAL STATEMENT ANALYSIS & SECURITY VALUATION 3
Prerequisite: FIN*228
Building upon accounting and finance fundamentals, this course provides understanding of how businesses work, how they generate value, and how the value is captured in financial statements. The course will combine analysis of accounting financial statements and financial security valuation.

FIN 420 FINANCIAL MANAGEMENT STRATEGY 3
Prerequisite: FIN*329, senior status
An advanced exploration of issues in business finance: financial valuation, required rates of return for projects and companies, management of working capital and fixed assets, and obtaining funds from the debt and equity markets.

FIN 422 SECURITY ANALYSIS 3
Prerequisite: FIN*330
An advanced study of topics in investment management: fundamental and technical analysis of stocks, investment in bonds, convertible securities and stock options; portfolio management and capital market theory.

FIN 429 GLOBAL FINANCE 3
Prerequisite: FIN*228
This course focuses on the global financial environment and particularly on business operations in a global setting. Topics in multinational finance, foreign exchange risk management, financing foreign operations are emphasized. Meets Core credit for GPS-Border Crossings.

FIN 432 INVESTMENT PORTFOLIO MANAGEMENT I 3
Prerequisite: Finance major and FIN*422 or approval of instructor
Teaches the fundamentals of portfolio management through integration of theory and practice. Students as a class manage an actual investment portfolio of significant worth under the supervision of the instructor.

FIN 442 INVESTMENT PORTFOLIO MANAGEMENT II 3
Prerequisite: Finance major and FIN*432
Proficiency in portfolio construction, management, and protection; managing the Eagle Investment Group portfolios, understanding of investment portfolio theory, mastery of current investment analysis techniques, and preparation for NASD Series 7 Securities licensure.

FIN 454 SPECIAL TOPICS IN FINANCE 3
Prerequisite: FIN*228
A course devoted to various topics related to current issues in finance. May be repeated once for different topics with approval of finance faculty.

Foreign Languages (FL)

FL 220 CONTEMPORARY LATIN AMERICAN LITERATURE IN TRANSLATION 3
Prerequisite: None
This course critically examines contemporary Latin American Revolutionary literature, in English translation. Meets Core credit for humanities and GPS-Border Crossings.

FL 221 U.S. MEXICO - BORDER LITERATURE 3
Prerequisite: None
This course critically examines the political, socio-economic, historical, cultural, and linguistic features of the U.S.-Mexico border, including the relationships between the two nations, through literary readings and cultural analysis. Taught in English. Meets Core credit for humanities and GPS-Border Crossings.

FL 275 PORTFOLIO ASSESSMENT PROGRAM CYCLE I 0
Prerequisite: Sophomore Status
A course designed to examine the progress towards SLOs for all Foreign Language Majors. Required for all French & Spanish Majors.

FL 299 GPS NARRATIVE 0
Prerequisite: None
A course designed to track on a student's transcript the completion of the GPS Narrative. This will apply to students who elect the GPS Study Abroad Track, a GPS course with Study Away or Course with Experience, or other students whose GPS completion includes the Narrative. The GPS Narrative is an analytical paper, multimedia presentation or other document in which the student demonstrates cultural and/or linguistic competencies acquired through contact with another culture. GPS Narratives that are not tied to a Course with Study Away or Course with Experience must be completed four weeks before student's graduation. Graded S/U.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>FREN 151</td>
<td>ELEMENTARY FRENCH I</td>
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<td>FREN 152</td>
<td>ELEMENTARY FRENCH II</td>
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<td>FREN 200</td>
<td>INTERMEDIATE LEVEL INTENSIVE</td>
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<td>FREN 251</td>
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<td>FREN 300</td>
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<td>FREN 301</td>
<td>FRENCH CIVILIZATION FROM LASCAUX TO VERSAILLES</td>
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<td>FREN 302</td>
<td>FRENCH CIVILIZATION FROM REVOLUTION TO PRESENT</td>
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**Prerequisites:**
- **FREN 151:** None. Appropriate course for beginners. Note: Not open to students who have placed into FREN 152, FREN 251, or FREN 252.
- **FREN 152:** FREN 151 or one to two years of high school language study or equivalent. Note: Not open to students who have placed into FREN 251 or FREN 252.
- **FREN 200:** FREN 152 or equivalent
- **FREN 251:** FREN 152 or two or more years of high school language study or equivalent. Equivalent entry point for most students with more than two years of high school language. Note: Not open to students who have placed into FREN 252.
- **FREN 252:** FREN 251 or two or more years of high school language study or equivalent. Note: Not open to students who place into 300 level courses.
- **FREN 300:** FREN 252 or equivalent
- **FREN 301:** FREN 252 or equivalent

**Course Descriptions:**
- **FREN 151 ELEMENTARY FRENCH I:** A comprehensive introductory course in French language for today's global world. Students develop oral and written proficiency through cultural studies. Taught in French. Offered annually.
- **FREN 152 ELEMENTARY FRENCH II:** A comprehensive introductory course in French language for today's global world. Students develop oral and written proficiency through cultural studies. Taught in French. Offered annually.
- **FREN 200 INTERMEDIATE LEVEL INTENSIVE:** A program designed to provide students with an intermediate-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host culture. Orientation and debriefing sessions on campus are required. Completion fulfills GPS requirement.
- **FREN 251 INTERMEDIATE FRENCH I:** A continuation of FREN 251. Students develop oral and written proficiency through and exploration of French media sources including music videos, television, film, and social media. Lab work required. Taught in French. Offered annually. Completion fulfills GPS requirement. Meets Core credit for GPS-Border Crossings.
- **FREN 252 INTERMEDIATE FRENCH II:** A program designed to provide students with an advanced-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host culture. Orientation and debriefing sessions on campus are required.
- **FREN 300 ADVANCED LEVEL INTENSIVE:** A program designed to provide students with an advanced-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host culture. Orientation and debriefing sessions on campus are required.
- **FREN 301 FRENCH CIVILIZATION FROM LASCAUX TO VERSAILLES:** This course provides an overview of major trends in French civilization and culture from the Gallo-Roman period to the Revolution. Under the theme the presence of the past, we will consider the development of major social and political institutions, major artistic and literary tendencies, and national myths based in the distant past which continue to inform the ways in which the French understand themselves and their nation today. In exploring the foundations of French society and culture, we will often engage in cross-cultural comparisons that bring into focus Franco-American differences, similarities, and historically-rooted affinities and misunderstandings. Taught in French. Offered alternate years. Meets Core credit for historical reasoning.
- **FREN 302 FRENCH CIVILIZATION FROM REVOLUTION TO PRESENT:** In order to understand contemporary France and the French sense of identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. French social and political institutions from the Revolution of 1789 to the present will be examined with an emphasis on the evolution of the core values of the Third Republic (liberty, equality, social solidarity, and the lay state) and their expression in the French context. Taught in French. Offered alternate years. Meets Core credit for social sciences.
FREN 303 FRENCH WRITTEN EXPRESSION 3
Prerequisite: FREN*252 or equivalent
The course offers intensive review and expansion of grammar and vocabulary through structured reading and writing activities. Reading selections include cultural information from France and other French-speaking countries. Taught in French. Offered alternate years.

FREN 304 FRENCH STYLISTICS 3
Prerequisite: FREN*303 or equivalent
This course extends the concept of advanced French grammar and composition to questions of style and rhetoric. It will familiarize students with the richness of expression of the French language through an in-depth analysis of a variety of texts and writing practice. Taught in French. Offered infrequently.

FREN 305 FRENCH PHONETICS 3
Prerequisite: FREN*252 or equivalent
A course designed to provide a review of standard French pronunciation and an introduction to phonology, phonetics, and dialectology including corrective exercises and a contrastive analysis of French and English sound systems. Taught in French. Offered alternate years.

FREN 351-352 INTRODUCTION TO FRENCH FICTION I & II 3-3
Prerequisite: FREN*252 or equivalent
Introduces the student to complete works of French fiction. Special attention will be given to the novella, short story, and novel as examples of modern and contemporary literary production. Works will be selected from the literature of France and Francophone countries. Taught in French. Offered alternate years.

FREN 353 FRENCH LITERATURE: MARIE DE FRANCE TO VOLTAIRE 3
Prerequisite: FREN*252 or equivalent
A close examination of major French literary texts from the Middle ages to the Revolution. The course emphasizes the ways in which representative works of pre-Revolutionary French literature are both products of and windows into their historical and cultural contexts. Students will learn and practice analysis of forms of literary expression as they relate to the production of meaning. All texts and discussions are in French. Offered alternate years. Meets Core credit for humanities.

FREN 354 FRENCH LITERATURE: REVOLUTION TO PRESENT 3
Prerequisite: FREN*252 or equivalent
A close examination of major French Literary texts from the Revolution to the present read as reflections of and reactions to the historical and cultural movements of the periods in which they were written. Students will learn and practice analysis of forms of literary expression as they relate to the production of meaning. All texts and discussions are in French. Offered alternate years. Meets Core credit for humanities.

FREN 357 FRENCH ORAL EXPRESSION 3
Prerequisite: FREN*252 or equivalent
This course focuses on the practice and development of conversational fluency through a variety of culturally-related themes. Taught in French. Offered alternate years.

FREN 470 SEMINAR ON THE FRENCH-SPEAKING WORLD 3
Prerequisite: FREN*351-352 or 353-354
A seminar on topics pertinent to language, culture, civilization and literature of the French-speaking world known today as "World Literature in French." The content will vary depending upon the interest and needs of students. The course may be repeated for a total of 6 hours. Taught in French. Offered alternate years.

Geology (GEOL)

GEOL 101 PHYSICAL GEOLOGY 4
Prerequisite: None
A study of the origin of minerals and rocks and the processes acting on and in the earth and their results as reflected in topography and earth structure. Three class sessions and one lab per week. Offered every fall.

GEOL 102 HISTORICAL GEOLOGY 4
Prerequisite: None
A study of the record in the rocks, especially the fossil record and the events of the earth's formation through geological time. Three class sessions and one lab per week. This course may also count toward a degree in biology. Offered every even spring.

GEOL 103 PHYSICAL GEOGRAPHY AND THE ENVIRONMENT 3
Prerequisite: None
Analysis of climatic elements and controls leading to an improved understanding of climatic types and their world distribution, followed by a study of the physical and cultural features within the major climatic regions, especially as these features relate to climatic conditions. The climatic regions form the framework for building up general geographic knowledge. Although memorization of geographic facts (including place names) is not stressed, the students are expected to improve greatly their knowledge of such facts. Special offering, contact department.

GEOL 209 NATURAL DISASTERS: VOLCANOES AND EARTHQUAKES 3
Prerequisite: None
What are natural disasters and how can science reduce the damage done by events such as earthquakes, tsunami, and volcanic eruptions? This course will examine these events and how scientists determine why and attempt to predict when and where natural disasters are most likely to occur, as well as identify what steps endangered communities can take in order to avoid or minimize the danger posed by these natural processes. Offered every semester. Meets Core credit for natural sciences. Student who are required or elect to take GEOL 101 for their major or minor cannot enroll in this class for credit toward their major or minor.

GEOL 210 NATURAL DISASTERS: SEVERE WEATHER 3
Prerequisite: None
What are natural disasters, and how can science reduce the damage done by events such as severe weather and flooding? This course will examine these events and how scientists attempt to predict when and where natural disasters are most likely to occur, as well as identify what steps endangered communities can take in order to avoid or minimize the danger posed by these natural processes. Offered every semester. Meets Core credit for natural sciences.
GEOL 211 DISCOVERING THE ICE AGE 3
Prerequisite: None
How was the Ice Age discovered? This class will examine how 19th century scientists used stones, bones, and landforms to bring about a revolution in our understanding of earth history. It will also examine the scientific evidence upon which current models of the Pleistocene Ice Age are built, as well as how ice, sediment, and rock cores are providing us with new insights into past and future ice ages. Meets Core credit for natural sciences.

GEOL 212 ARCHEOLOGY & HUMAN ANTIQUITY 3
Prerequisite: None
Where did humans come from? How far back in time can we trace the human lineage? The question of human antiquity is a topic of universal interest and speculation. Archaeology is a discipline that seeks to answer this question. This class will critically examine some of the scientific techniques archaeologists have used, discoveries they have made, and conclusions they have reached about human antiquity. Meets Core credit for natural sciences.

GEOL 213 ASTEROIDS, COMETS, AND CATASTROPHISM 3
Prerequisite: None
How has the discovery of giant impact craters changed our understanding of earth history? This class will examine the scientific evidence for repeated asteroid and comet collisions with the earth, the catastrophic effect of these collisions, and the re-emergence of catastrophism as a viable paradigm in modern scientific theories. Meets Core credit for natural sciences.

GEOL 275 TOPICS IN REGIONAL GEOLOGY 1-8
Prerequisite: None
A study of various topics relevant to annual field trips conducted by the department, generally 10-14 days in May. Offered every odd spring.

GEOL 297 INTRODUCTION TO LABORATORY AND FIELD RESEARCH
Prerequisite: Soph or junior standing
This course will introduce the student to scientific research in the laboratory or field through individual instruction under the direction of a Geology faculty member. Graded S/U. Offered each semester.

GEOL 309 GEOMORPHOLOGY 4
Prerequisite: GEOL*101
The interpretation of landscapes and landforms; their origin, evolution and relation to erosion, structure and rock characteristics. Three lectures and one lab per week. Offered every odd fall.

GEOL 311 MINERALOGY 4
Prerequisite: GEOL*101
A course that includes the elements of crystallography, crystal chemistry and descriptive mineralogy of the important or common minerals. Three class sessions and one lab per week.

GEOL 312 IGNEOUS AND METAMORPHIC PETROLOGY 4
Prerequisite: GEOL*311
Analysis of the principal igneous and metamorphic rocks; their origin, structure and physical and chemical composition. Three class sessions and one lab per week. Offered every even spring.

GEOL 313 SEDIMENTARY PETROLOGY AND STRATIGRAPHY 4
Prerequisite: GEOL*102
An introduction to the features found in sedimentary rocks and the principles of sedimentology and stratigraphy emphasizing interpretation, correlation, and use in assessing the geologic history of the earth. Three class sessions and one laboratory period per week. Offered every even fall.

GEOL 320 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) 4
Prerequisite: GEOL*101
This course covers the fundamental principles of geographic information systems (GIS), which is the merging of cartography, statistical analysis, and database technology into computer-based systems that capture, store, manipulate, analyze, manage, and present all types of geographical data for a wide variety of applications and purposes, but with the goal of informed decision-making. Students will learn how to create interactive queries (user-created searches), analyze spatial information, edit data in maps, and present the results of all these operations, primarily applying these to geological and environmental systems. EVS/GEOL credit.

GEOL 350 SCIENCE AS A CULTURAL FORCE 3
Prerequisite: See CHEM 350 for course description.

GEOL 401 STRUCTURAL GEOLOGY 4
Prerequisite: GEOL*101
A study of the geometrical relationships of rock bodies of the earth, their orientation, distribution and bearing on the theories concerned with the origin and development of major land- scape features, the continents and the ocean basins. Three class sessions and one lab per week. Offered every odd spring.

GEOL 402 ECONOMIC GEOLOGY 3
Prerequisite: GEOL*101, GEOL*311
This course is an introduction to the general geologic and economic features that are important to the discovery, production, and reclamation of commercial concentrations of non-hydrocarbon mineral resources, i.e., metallic and industrial mineral commodities. It also includes the importance of mineral resources to the global economy, mineral evaluation, and risk analysis and the environmental impact of extraction and processing. The course deals with mineral resources in many countries. While the course does not have a laboratory component, materials and techniques are covered in the classroom setting or as outside components.

GEOL 403 ENVIRONMENTAL GEOCHEMISTRY 4
Prerequisite: GEOL*101, CHEM*104, approval of department chair
A quantitative introduction to the distribution and migration of chemical species within the earth in space, and in time, with emphasis on understanding the principle chemical control on element distribution. Major chemical systems are investigated within the lithosphere and hydrosphere. Three lectures and one two-hour lab per week. This course may be used to satisfy elective hours for chemistry majors. Offered every odd spring.

GEOL 405 PETROLEUM GEOLOGY 4
Prerequisite: GEOL*101, GEOL*313
This course is an introduction to petroleum geology that provides a basic understanding of the geologic origin, migration, and location of hydrocarbon deposits and the concepts and methods in petroleum and natural gas exploration and development. Laboratory exercises supplement lectures and offer practical experience with methods, especially core and geophysical log and survey analysis and interpretation, subsurface mapping, volumetric calculations, and risk analysis and environmental impact.
GEOL 429 FIELD GEOLOGY 1-8
Prerequisite: GEOL*311, and additional courses from the following are recommended: GEOL*309, 312, 313, 314 and 401
Field analysis and interpretation of the regional geology at several field camp locations. The work includes an introduction to field techniques and geological mapping on aerial photographs and topographic base maps. Offered every odd summer, generally 10-14 days in May.

GEOL 476 ISSUES IN ENVIRONMENTAL SCIENCE 3
Prerequisite: 30 hours of science courses (MATH, BIO, CHEM, GEOL, PHYS)
A detailed examination of the scientific dimensions of selected environmental issues, with discussion of the economic policy, and ethical aspects of those problems and with emphasis on global and international perspectives. Case studies will include many examples from other countries, as well as national and regional issues in the U.S. Required for all EVS majors. Biology and Geology majors (but not EVS/Biology or EVS/Geology majors) may use this course as a biology or geology elective. Meets Core credit for GPS-Border Crossings. BIO/EVS/GEOL credit.

GEOL 493 INTERNSHIP 1-4
Prerequisite: See CHEM 493 for course description

GEOL 497 LABORATORY AND FIELD RESEARCH 1-3
Prerequisite: See CHEM 497 for course description.

German (GER)

GER 161 ELEMENTARY GERMAN I 3
Prerequisite: None
An introduction to the German language and culture with practice in the basic skills of the language. Lab work required. Taught in German. Offered infrequently.

GER 162 ELEMENTARY GERMAN II 3
Prerequisite: GER*161 or equivalent
A continuation of FL 161. Lab work required. Taught in German. Offered infrequently.

GER 261 INTERMEDIATE GERMAN I 3
Prerequisite: GER*162 or equivalent
A course designed to increase the student's understanding of the language by building on the skills learned in the elementary course. Lab work required. Taught in German. Offered infrequently.

GER 262 INTERMEDIATE GERMAN II 3
Prerequisite: GER*261 or equivalent
Continuation of GER 261. Lab work required. Taught in German. Completion fulfills GPS Requirement. Offered infrequently.

History (HIST)

HIST 112 WESTERN CIVILIZATION 3
Prerequisite: None
This course will seek to answer the question What is civilization? by studying certain historical moments in the West-classical Greece, the Roman Republic, early Christianity, the High Middle Ages, and the Renaissance-in order to see the changes over time in politics, religion, society, economics, and culture and to realize the extent to which the present world has inherited these institutional and intellectual foundations of human life. Meets Core credit for historical reasoning.

HIST 113 WESTERN CIVILIZATION 3
Prerequisite: None
This course examines how the peoples of Western Europe understood freedom and sought to secure it in the 500 years from the Renaissance to WW II. Focusing on selected historical moments during this period, the course considers how this question for freedom transformed politics, religion, economics, and morality; it also examines the reaction to this transformation, especially in totalitarianism. Meet Core credit for historical reasoning.

HIST 201 TOPICS IN CLASSICAL CIVILIZATION 3
Prerequisite: None
This course will cover key topics in Greek and Roman antiquity. Topics may include imperialism in ancient Greece and Rome, sport and spectacle, family, slavery in the Greco-Roman world, women in the ancient world, or authors such as Plutarch, Cicero, or Seneca. Repeatable as topics change.

HIST 212 AMERICAN HISTORY THROUGH THE CIVIL WAR 3
Prerequisite: None
An examination of the creation and development of a distinctively American civilization, from its origins through the Civil War (to 1865). Meets Core credit for historical reasoning.

HIST 213 AMERICAN HISTORY AFTER THE CIVIL WAR 3
Prerequisite: None
An examination of how the fundamental American principles of freedom and equality have developed as the United States emerged as the world's leading power from the Civil War to the present. Meets Core credit for historical reasoning.

HIST 218 WOMEN IN AMERICAN HISTORY 3
Prerequisite: None
A view of women as participants in the nation's growth from the earliest colonial settlements to the present. Emphasis on student use of multimedia, including films, tapes, slides, and guest speakers, to rediscover the record of women in American national life.

HIST 236 AMERICAN FOREIGN POLICY 3
Prerequisite: See POLSC 236 for course description.

HIST 239 HISTORY OF OHIO 3
Prerequisite: None
A general history of the State of Ohio. If feasible includes trips to Columbus to visit the Ohio Historical Museum and other institutions relating to Ohio's history.

HIST 261 ANCIENT GREECE 3
Prerequisite: None
This course examines the political, military and intellectual history of Ancient Greece, emphasizing the developments that have most influenced the Greco-Roman tradition in Western culture. Focusing on selected literary sources written during this period, the course confronts the rise of the polis, the development of political thought, tragedy, comedy, philosophy, and the spread of Hellenism throughout the Mediterranean.
HIST 264  ANCIENT ROME AND THE RISE OF CHRISTIANITY  3
Prerequisite: None
This course examines the political, military and intellectual history of Ancient Rome, including the rise of Christianity within Rome. Focusing on selected literary sources written during this period, the course examines the internal and external tensions that led to the rise and decline of Rome, including the factors in Roman history that were central to the rise of Christianity.

HIST 267  MEDIEVAL EUROPE  3
Prerequisite: None
A survey of ideas, events, individuals, and trends of Europe from the late Roman era to the Italian Renaissance, with an emphasis on showing how the modern world arose from a combination of Roman, Christian, and Germanic elements. The course will examine the rise of Christianity (both Roman and Orthodox), the struggle against Islam, the development of feudal society, the revival of trade and towns, and the ongoing battle between the papacy and the European monarchies.

HIST 268  RENAISSANCE AND REFORMATION  3
Prerequisite: None
This course covers the intellectual and political history of the European Renaissance and the Protestant Reformation. Focusing on literary sources written during this period, the course examines the intellectual developments, art, literature, politics, and religious thought that shattered the Medieval world-view and led to the scientific revolution. The central purpose of this course is to understand how Italian and northern Humanism developed and influenced later western history.

HIST 269  AGE OF ENLIGHTENMENT (1600-1789)  3
Prerequisite: None
Examines the intellectual and political reformation that swept Europe in the 18th century and 1789. Will focus on the revolution in modern natural science, the rise and fall of absolute government, the growth of the English constitution, and the development of a new liberal philosophy.

HIST 270  AGE OF REVOLUTION AND REACTION (1789-1900)  3
Prerequisite: None
Examines the history of Europe from the French Revolution to the years just before the outbreak of World War I. Topics studied include the Congress of Vienna, industrialization, ideologies such as liberalism, socialism, democracy and nationalism, the Franco-Prussian war, and colonial expansion.

HIST 271  20TH CENTURY EUROPE TO THE PRESENT  3
Prerequisite: None
A survey of the ideas, events, individuals, and trends of Europe since 1900, emphasizing the rise of totalitarianism and the two world wars. Through a combination of lecture and discussion of primary sources, the course will examine the origins and outcomes of World War I; the rise of collectivist dictatorships in Russia, Italy, and Germany; the Great Depression and its effects; the road to World War II, and the war itself, the postwar trends toward European union and decolonization; and the Cold War.

HIST 301  CULTURAL GEOGRAPHY  3
Prerequisite: None
Survey of human settlement and its relationship with the physical environment, including populace, regional and cultural patterns, economic and political organizations and the uses of land and natural resources.

HIST 321  WARFARE: ANCIENT AND MODERN  3
Prerequisite: None
This course provides a comparative study of warfare across history, using selected conflicts from the ancient, medieval, and modern worlds to illustrate the underlying themes, causes, and motivations of wars.

HIST 327  AFRICA  3
Prerequisite: None
An introductory discussion of Africa before the age of Imperialism followed by an intensive study of the period of foreign control, and then a study of the independence movement and the Africa of today. Meets Core credit for GPS-Border Crossings.

HIST 329  LATIN AMERICA  3
Prerequisite: None
A survey of Latin America from the days of discovery and colonization to present time, focusing on contemporary institutions of selected Latin American countries, especially Argentina, Brazil, Mexico, Cuba, and the Caribbean and Central America Republics, including relations with the United States and the problems confronting the extension of democracy in Latin America.

HIST 341  MODERN MIDDLE EAST  3
Prerequisite: None
This course explores the development and character of important Middle Eastern countries and of relations between them, with emphasis on the influence of geography, history, religion, political ideas, statesmanship, culture, European imperialism, and natural resources. HIST/POLSC 341 credit. Meets Core credit for GPS-Border Crossings.

HIST 343  MODERN EAST ASIA  3
Prerequisite: None
In this course, students consider the political, diplomatic, and cultural history of East Asia - specifically Japan, China, Korea, and Vietnam - from roughly 1600 to the present. Of particular interest will be how the civilization of East Asia was transformed in the modern era, mainly as a result of its contract with the West. Meets Core credit for GPS-Border Crossings.

HIST 351  COLONIAL AMERICA  3
Prerequisite: None
This course covers colonial America from 1500 to 1776. Stress is laid upon the European backgrounds and the evolution of the political, economic and social institutions of the colonies.

HIST 352  THE AMERICAN FOUNDING  3
Prerequisite: None
A seminar on the principles and practices of America's founding statesmen. We examine how the founders formulated and reconciled ideas (natural rights, separation of powers, Federalism) with interests (economic, political, regional, etc.). HIST 352/POLSC 352 credit.

HIST 353  THE EARLY REPUBLIC: US 1791-1820  3
Prerequisite: None
In this course we will examine the political, diplomatic, intellectual, and social history of the United States from 1791 to 1820.
HIST 354  NATIONHOOD AND SECTIONAL CONFLICT: US 1820 - 1854  3
Prerequisite: None
This course will cover the main events, personalities, developments, and ideas in the United States between 1820 and 1854.

HIST 355  CIVIL WAR AND RECONSTRUCTION  3
Prerequisite: None
An examination of the origins, progress, and consequences - political, historical, and economic - of the Civil War. In addition to the military aspects of the Civil War, the course looks at the immediate and long-term problems of Reconstruction.

HIST 356  AGE OF ENTERPRISE AND PROGRESSIVISM  3
Prerequisite: None
A study of the rise of modern America. The course begins in 1877 with the end of Reconstruction, and it finishes with America's entry into World War I. Students will examine the beginnings of industrialization, the rise of cities, immigration, progressive reform, and America's ascendency to world power.

HIST 357  AMERICA IN THE AGE OF WORLD WARS  3
Prerequisite: None
A study of the American experience from 1920-1945, exploring the Roaring Twenties, Great Depression, New Deal, and the Second World War. Political, economic, social, intellectual, and cultural currents will be addressed as well as foreign policy issues.

HIST 358  POSTWAR AMERICA: 1945-1973  3
Prerequisite: None
An examination of the United States during the three decades following the Second World War. The social, economic, political, and diplomatic development of the country is stressed with a thematic emphasis.

HIST 359  CONTEMPORARY AMERICA: 1974 TO PRESENT  3
Prerequisite: None
Examines the United States from the end of Watergate to the present, with emphasis on the rise of the new conservatism, the collapse of the Soviet Union, and the search for a new foreign policy. The social, economic, political, and diplomatic development of the country is stressed with a thematic emphasis.

HIST 360  ECONOMIC HISTORY OF THE UNITED STATES  3
Prerequisite: None
This course is a survey of the economic development of the United States from its foundation until the present time. It emphasizes the development of industry and commerce.

HIST 364  WORLD WAR II  3
Prerequisite: None
An examination of World War II, the most widespread, costly, and destructive war in the history of the planet. The course will cover the origins of the war, the strategies pursued by the participants, and the major events in both the Pacific and European theaters from the 1930's until 1945. Further, it will consider the significance of the war for the history of Europe, Asia, and the United States.

HIST 370  TOPICS IN AMERICAN HISTORY  3
Prerequisite: None
Examines various topics, themes or ideas in American History. Students should check schedule and/or instructor to ascertain what topics are currently being offered. May be repeated once if the topic is different.

HIST 375  LINCOLN  3
Prerequisite: None
A seminar that considers the political thought, actions, and statesmanship of Abraham Lincoln before and during the Civil War. Readings include a number of his speeches, with special emphasis on the Lincoln and Douglas debates. HIST/POLSC credit.

HIST 380  TOPICS IN HISTORY  3
Prerequisite: None
This course treats various topics, themes and ideas in European or World History. Students should check schedule and/or instructor to ascertain what topics are currently being offered. The course can be taken twice if topics are different.

HIST 381  CHURCHILL  3
Prerequisite: See POLSC 381 for course description.

HIST 385  SHAKESPEARE'S POLITICS  3
Prerequisite: See POLSC 385 for course description.

HIST 465  THE STUDY OF HISTORY SEMINAR  3
Prerequisite: None
Introduction to methods of historical research and writing. Exposure to specific writings, emphasizing ideas and trends of either European or American historians, but especially the latter. Open only to junior or senior history majors or by permission of the instructor.

HIST 497  THESIS SEMINAR  3
Prerequisite: Senior status and departmental major or minor
The course is designed for a major or minor in the Department who is researching and writing a senior thesis. It is a guided, intensive study of some topic of interest to the student, which results in a substantial scholarly paper. The student may not have acquired or be in the process of acquiring more than 3 hours of academic credit for work connected to the project to be undertaken in HIST/POLSC 497 (for example, through Independent Study).

Honors Program (HON)

HON 101  FIRST YEAR HONORS SEMINAR  1
Prerequisite: Enrollment in Honors Program
A course designed for students admitted to the Honors Program in their first year. The course introduces student to the Honors Program and Ashland University through classes offered in seminar format, involving assigned readings, discussion, and written assignments.

HON 310  HONORS CAPSTONE PREPARATION  1
Prerequisite: Enrollment in Honors Program; at least junior status
The process of preparing a capstone project, including selecting a topic, choosing mentors, preparing a bibliography, constructing a written thesis prospectus, and outlining a timetable for completing the Capstone Project. This course is required for all juniors who plan to complete an honors thesis their senior year. The course may be taken by conference if there is a scheduling conflict. Graded S/U.
### Health Sciences (HS, HSFH, HSCGH)

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<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<td>HS 104</td>
<td>FITNESS WALKING</td>
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<td>HS 117</td>
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<td>HS 138</td>
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<td>HS 182</td>
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**HS 104 FITNESS WALKING**

*Prerequisite: None*

Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

**HS 117 SELF DEFENSE/MARTIAL ARTS**

*Prerequisite: None*

Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

**HS 138 PHYSICAL FITNESS**

*Prerequisite: None*

Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

**HS 153 WEIGHT TRAINING**

*Prerequisite: None*

Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

**HS 180 LIFETIME WELLNESS**

*Prerequisite: None*

An examination and application of the components that contribute to the concept of wellness—a process of moving toward optimal health and vitality that emphasizes individual responsibility for well-being through the practice of self-assessment and the adoption of health-promoting lifestyle behaviors. FCS/HS credit. Meets Core credit for lifetime wellness.

**HS 182 FIRST AID AND CPR**

*Prerequisite: None*

A concentrated study of preventive and remedial techniques related to safety and first aid. Successful completion of the course may certify one in CPR and Standard First Aid.

**HS 201 IMPACT OF CHRONIC ILLNESS**

*Prerequisite: None*

This course will explore the effects of chronic health issues on individuals and families, including lay caregivers. Psychosocial, economic, social environment, behavioral, and health care system factors influencing chronic health issues will be examined by reading 4 first-hand accounts of chronic illness. These readings will be analyzed for patterns and themes and compared with theoretical bases and research support related to chronic health experiences of the individual and family. Social justice concerns related to chronic illness, such as social stigma, availability of resources, access to care, and extension of life, will be discussed. Meets Core credit for social sciences.

**HS 221 FOOD AND CULTURE**

*Prerequisite: None*

Global view of the nutritional needs of individuals and how food needs are met; issues with food supply around the world, and consideration of factors which determine what societies and families eat (i.e., taboos, beliefs, rituals, and symbolism surrounding food.) The history of how people have met their food needs and potential future developments are covered. Meets GPS-Border Crossings credit.

**HS 309 INTERNATIONAL TRANSCULTURAL PERSPECTIVES**

*Prerequisite: See NUR 309 course description.*

**HS 316 CONSUMER HEALTH**

*Prerequisite: None*

A broad survey of health products and information available in the market place which may help or hinder the development of a healthy lifestyle.

**HS 360 RESEARCH IN HEALTH SCIENCES**

*Prerequisite: MATH*208; ATR*165 or EXS*309 or DIET*320*

This course will examine research methodologies and study designs associated with the health sciences, athletic training, dietetics, and exercise science. Students will complete a research proposal focusing on a research question related to their field of study, including a literature review, methodology, and statistical analyses. Basic quantitative statistical procedures and qualitative data analyses will be discussed. Procedures associated with Human Subject Review Board (HSRB) applications will be reviewed.

**HS 380 NAVAJO RESERVATION CULTURAL IMMERSION**

*Prerequisite: NUR*105*

All students will examine the Navajo culture in the context of health care. After the semester, students in the course with Study Away option will conclude with a weeklong immersion at a Navajo reservation in Arizona. Students will interact with the Navajo people at Tsehootsooi Medical Center and the surrounding community. Meets Core credit for GPS-Border Crossings or GPS-Course with Study Away.
HSCGH 202  GLOBAL CHALLENGES IN PUBLIC HEALTH

Prerequisite: None
This course explores the challenges of public health from an international perspective through the focused examination of three historical case studies. In addition, a prospective assessment of public health will analyze its future role in promoting and protecting the health of populations across the globe (ex. South Asia or Sub-Saharan Africa). The core functions of public health will be discussed within the context of key case studies and compared with current public health policy and practice. Students will critically examine both historical and current public health challenges in order to gain a unique understanding of the public health needs of aggregates living in other nations, under differing socioeconomic, political and cultural conditions and the impact of those needs on allocation, constraints, and availability of resources. Meets Core credit for social sciences.

HSCGH 318  SCHOOL HEALTH ENVIRONMENT AND SERVICES

Prerequisite: None
A study of standards necessary for developing and maintaining a healthful school environment and of the broad areas of responsibility for school health services and health education.

HSFH 322  PHYSICAL AGING

Prerequisite: 3 hrs. 100 or 200 level Biology, ES*190
This course emphasizes health promotion in relation to the physiological aspects of aging. The functional consequences theory, which looks at how normal age-related changes and risk factors intersect to impact functioning in older adults, forms the framework for the course. Assessment of various aspects of the older adult’s functioning in relation to normal aging and secondary aging due to chronic disease will be covered. Interventions for maximizing function and promoting health in the elderly will be presented. (Note: This will also count in the nursing major as one of the options for the advanced human biological science elective.)

Hospitality Management (HSM)

HSM 135  INTRODUCTION TO THE HOSPITALITY INDUSTRY

Prerequisite: None
An introduction to the hospitality industry through an overview of structure and financial performance of the hospitality industry, food and lodging, resorts, attractions, and related operations. Special attention will be focused on orientation to customer service, cultural/economic trends, and career opportunities.

HSM 234  HOTEL OPERATIONS

Prerequisite: HSM*135, MGT*240, ACCT*201
A systematic study of accounting principles as they apply to the lodging industry, the requirements for special accounting procedures and records and their use in maintaining sound control and in supporting management decisions.

HSM 235  HOSPITALITY COST CONTROL

Prerequisite: MATH*208
Introduction to the application of computers in the hospitality industry. A study of how computers are used in hotels and restaurants for controlling reservations, making room assignments helping keep track of food and beverage charges, forecasting and scheduling. The course will serve as a foundation for integrating computer usage in other hospitality curriculum. Special emphasis will be directed to computerized front office operations.

HSM 250  FOOD & BEVERAGE OPERATIONS MANAGEMENT

Prerequisite: HSM*135 and HSM*235 or DIET*210; MGT*240; HSM335 concurrent
Students will receive an overview of food and beverage operations and management. Topics include careers, equipment layout and décor, menu planning, management development, customer service and procurement.

HSM 334  MANAGEMENT OF INSTITUTIONAL EMPLOYEES

Prerequisite: Sophomore status
A study of acquiring, maintaining, motivating and utilizing a work force under the special conditions found in hotels, restaurants and other personal service type institutions.

HSM 335  ENVIRONMENTAL MANAGEMENT

Prerequisite: None
Examines the organization and operation of the housekeeping and engineering departments of food service facilities. The course stresses training and record keeping and provides essential technical information in electricity, heating, plumbing and other equipment. Additional significance of sanitation and personal hygiene in all food service operations will be studied. Knowledge needed to implement a sanitation program for any facility will be discussed.

HSM 336  FOOD PREPARATION I

Prerequisite: HSM*335
The course is designed to teach those with management responsibilities how quality foods are produced. Additionally, purchasing criteria and guidelines for the major groups of foods purchased by quantity buyers will be discussed. Topics including all the major food groups, cost implications, and cooking theory will be conducted by lecture format. Culinary techniques and practical production concentration will be provided at two-team member stations in a laboratory environment.

HSM 337  FOOD PREPARATION II

Prerequisite: HSM*336
A continuation of Food Preparation I. The completion of all major food groups with relation to preparation and purchasing will be integrated in class lecture and lab. Emphasis on practical production procedures and culinary techniques via team-station laboratory performance is continued.

HSM 410  GAMING & CASINO MANAGEMENT

Prerequisite: HSM*135, MATH*208
This course gives an overview of the various games and of managing odds. Emphasizes the financial, operational, marketing, legal, and ethical aspects of running gaming operations.

HSM 430  BEVERAGE MANAGEMENT

Prerequisite: HSM*135, HSM*235
This course looks at principles and practices regarding the production, selection, purchasing, storage, and service of beverage alcohol in the hospitality industry.

HSM 433  HOSPITALITY MARKETING

Prerequisite: MKT*233, HSM*135
A study of the controllable and non-controllable factors involved in marketing the food and lodging institution. Introduces the role of marketing, analyzes the consumer, delves into the product planning, distribution planning, promotion planning and price planning roles of the hospitality manager. Hands-on class project developing an actual marketing and communication plan.
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<td>HSM 435</td>
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<tr>
<td>IS 221</td>
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<tr>
<td>IS 321</td>
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<td>IS 346</td>
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<td>IS 370</td>
<td>PROGRAMMING FOR BUSINESS I</td>
<td>3</td>
<td>IS*221</td>
</tr>
<tr>
<td>IS 371</td>
<td>PROGRAMMING FOR BUSINESS II</td>
<td>3</td>
<td>IS*370</td>
</tr>
<tr>
<td>IS 372</td>
<td>SYSTEMS ANALYSIS AND DESIGN</td>
<td>3</td>
<td>IS*221</td>
</tr>
<tr>
<td>IS 452</td>
<td>SPECIAL TOPICS IN INFORMATION SYSTEMS</td>
<td>1-3</td>
<td>IS*372</td>
</tr>
<tr>
<td>IS 470</td>
<td>DATABASE MANAGEMENT</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>IS 472</td>
<td>DECISION SUPPORT SYSTEMS AND BUSINESS INTELLIGENCE</td>
<td>3</td>
<td>IS<em>370 or CS</em>121</td>
</tr>
<tr>
<td>IS 473</td>
<td>ADVANCED SYSTEMS DEVELOPMENT</td>
<td>3</td>
<td>IS<em>371, IS</em>372, IS*470</td>
</tr>
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</table>

**Interdisciplinary Studies (IDS)**

- **IDS 493** INTELLIGENCE INTERNSHIP AT ATIC

  The Intelligence Internship at ATIC is a full time internship offered in residence at the Advanced Technical Intelligence Center (ATIC) in Dayton, OH. This internship is designed to provide students with the necessary tools to be successful analysts in the U.S. Intelligence Community. The Intelligence Internship at ATIC includes classroom training, research experience, experiential contact hours and, if eligible, the sponsorship of the student for a Top Secret security clearance. This 15 week internship is available during fall and spring semesters and the summer. Students will earn 12 semester hours of credit for satisfactorily completing the internship.

**Information Systems (IS)**

- **IS 221** INFORMATION TECHNOLOGY

  This course is an introduction to the use of computers in a business environment. It traces the evolution of data processing systems through advanced systems currently in use, including hardware, software, programming and operating systems. Other current topics including data communications, databases and computer security also will be discussed.

- **IS 321** BUSINESS SPREADSHEETS

  An advanced study of the development and implementation of spreadsheets as applied to business applications, including worksheet design, problem organization and results presentation. The course prepares the student for the Microsoft Office Excel certification exam.

- **IS 346** E-COMMERCE

  This course is designed to introduce students to business, cultural, technical, and social/legal aspects of using the Web for business in a global context transcending the U.S. or any specific national boundary. Figuring prominently in the course will be examination of cultural, business and social dimensions of e-commerce, including web site design, across multiple countries. Students will work on a group project that involves the development of a business plan and the design of an e-commerce business using IS skills and knowledge you have obtained from this course and other courses taken. Meets Core credit for GPS-Border Crossings.

- **IS 370** PROGRAMMING FOR BUSINESS I

  An introduction to computer programming in the business environment. Using Visual Basic, student’s will design, flowchart, program, enter, test and debug, and document programs of minimal to medium degree of difficulty.

- **IS 371** PROGRAMMING FOR BUSINESS II

  A continuation of IS 370. Will involve advanced programming techniques, including file handling. Complex problem-solving situations will be undertaken in order to provide the student with applications-oriented experience.

- **IS 372** SYSTEMS ANALYSIS AND DESIGN

  An introduction to the concepts and methods of systems analysis and design. The course will examine the life cycle of an information system from initial business problems through system development, implementation, and maintenance. Students will follow the development of various systems through the use of select business cases.

- **IS 452** SPECIAL TOPICS IN INFORMATION SYSTEMS

  Examines various topics related to current issues in information systems. May be repeated once for different topics with the approval of IS faculty.

- **IS 470** DATABASE MANAGEMENT

  An introduction to database management which combines theory with application. The course will present aspects of relational database theory including cardinality, normalization, and referential integrity. Students will then apply these theories to design, and implement databases using a variety of database management systems.

- **IS 472** DECISION SUPPORT SYSTEMS AND BUSINESS INTELLIGENCE

  An examination of the role of information systems in managerial decision making. The course describes the decision making process and examines how various information systems are used to support this process. Specific topics covered in the course include decision support systems, business intelligence, and knowledge management.

- **IS 473** ADVANCED SYSTEMS DEVELOPMENT

  A study of advanced systems design and development methodologies. The course will include a project requiring the student to develop and implement a computer-based information systems.
IS 475 NETWORK FUNDAMENTALS AND INFORMATION SECURITY
Prerequisite: IS*370 or CS*121
Overview of network technology for local area networks (LANs), wide area networks (WANs), and the internet. Focus will be placed on designing, implementing, managing, and troubleshooting a network environment. A foundation-level understanding of the various domains for certification as an information systems security professional will also be discussed.

IS 479 MANAGEMENT OF INFORMATION SYSTEMS
Prerequisite: IS*372
The theory and practice of planning, control and administration of the management aspects of IS installations will be analyzed in general, and information resource management in particular. This course will develop the background necessary for relating the practice of information systems support to the realities of management needs. The student will be responsible for researching and reporting on current topics in the field.

JDM 212 PROFESSIONAL PRACTICE: RADIO PRODUCTION
Prerequisite: major or minor with the Department of Journalism and Digital Media
Students in this course will get practical, hands-on experience working within the JDM facilities producing media content for WRDL-FM. Students will work within all facets of radio production, including working as DJs, board operations for sporting events and shows, remotes, audio production, and working with JDM 211 students to coordinate content for various shows. This one credit course is repeatable and is for JDM majors and minors only. Digital Media Production majors and minors are required to take at least two credits of this course. Course is graded S/U.

JDM 213 PROFESSIONAL PRACTICE: TELEVISION PRODUCTION
Prerequisite: major or minor with the Department of Journalism and Digital Media
Students in this course will get practical, hands-on experience working within the JDM facilities producing media content for AUTV-20. Students will work within all facets of television production, including working as crew for remote and studio productions, creating graphics, shooting and editing video, and working with JDM 211 students to coordinate content for various shows. This one credit course is repeatable and is for JDM majors and minors only. Digital Media Production majors and minors are required to take at least two credits of this course. Course is graded S/U.

JDM 214 PROFESSIONAL PRACTICE: SPECIAL TOPICS
Prerequisite: major or minor with the Department of Journalism and Digital Media
Students in this course will get practical, hands-on experience producing media content for various purposes that are not part of the existing Journalism and Digital Media curriculum or professional practice offerings. This course is offered once a year and specific topic varies. This one credit course is repeatable and is for JDM majors and minors only. Course is graded S/U.

JDM 224 SPECIAL TOPICS IN DIGITAL MEDIA
Prerequisite: JDM*103
This course covers various topics and content related to today's media industry that are not a part of the Journalism and Digital Media curriculum. Topics reflect new techniques, areas, and issues facing the media currently. May be repeated for credit as topics change.

JDM 232 VIDEO AESTHETICS II
Prerequisite: JDM*133
In this course, students will build on the skills learned in JDM 133 to create more advanced video shooting and editing projects. The focus will be on the aesthetics and creative techniques associated with lighting, audio, and shooting video in the field. Additionally, students will learn the appropriate use of advanced editing techniques (effects, transitions, graphics, and color correction) to create meaning within a piece. Meets Core credit for aesthetics.

JDM 234 STUDIO PRODUCTION
Prerequisite: JDM*133
Course covers the practices, procedures, and techniques associated with the production of studio television programs.
JDM 237  BASIC AUDIO PRODUCTION  3
**Prerequisite:** JDM*133
Covers the basic theories of field and studio audio production. Students will become familiar with the use of field and studio audio equipment and will learn the basics of audio pre- and post-production techniques.

JDM 243  SPORT BROADCASTING & PRODUCTION  3
**Prerequisite:** JDM*133
The course examines the history of multi-camera sports production techniques, the technology used and coverage formulas utilized by the broadcast and cable networks producing sporting events today.

JDM 245  FUNDAMENTALS OF RESEARCH AND REPORTING  3
**Prerequisite:** JDM*103, JDM*203
A course designed to teach students in the fundamentals of news-gathering. Emphasis will be on interviewing techniques, computer-assisted research, public records laws, and how to glean important information from historical archives. The course will also focus on information literacy and the importance of sound news judgment.

JDM 246  MULTIMEDIA REPORTING  3
**Prerequisite:** JDM*133, JDM*203
This course is designed to teach students the fundamentals of creating news and information content for the web. The focus will be on writing techniques, information gathering and relevant software. Skills learned in this course will serve as the basis for longer-form web content created in JDM 307 and 336.

JDM 303  MEDIA LAW AND ETHICS  3
**Prerequisite:** None
An examination of the roles of the law and ethics in determining appropriate conduct in the fields of journalism, media production, and other areas of public communication. A fundamental understanding of first amendment principles and legal philosophy affecting freedom of expression in the media industries will be stressed.

JDM 307  ADVANCED REPORTING AND EDITING  3
**Prerequisite:** JDM*245, JDM*246 or Permission
A course designed to instruct students in comprehensive news gathering skills and new disseminating skills. Emphasis on investigation journalism that is assisted by gathering material derived from interviews, observation, public records, and other documents, and on using such research material to construct effective, in-depth news articles. The class will also analyze selected examples of hard news reporting from contemporary journalistic practice. Class assignments will involve a series of practical writing projects.

JDM 311  SCRIPT WRITING AND DIRECTING  3
**Prerequisite:** JDM*234
An examination and practice in the two most basic functions in media production; directing and scriptwriting. Working collaboratively, students will execute a series of scriptwriting and direction projects of various format and lengths.

JDM 320  FEATURE WRITING  3
**Prerequisite:** JDM*245
A course stressing the development of effective techniques for researching and writing various forms of feature writing, including advances, entertainment reviews, columns, human interest and trend stories. The class will also analyze selected examples of feature writing from contemporary journalistic practice. Class assignments will involve a series of practical writing projects.

JDM 330  ORGANIZATIONAL AND CORPORATE VIDEO  3
**Prerequisite:** JDM*232
This course covers the practices and procedures associated with producing video for organizations and corporations. Pre- and post-production, as well as field and studio production work are all addressed in a corporate training video setting. Working with clients is also a key component to the course.

JDM 331  DIGITAL MEDIA MANAGEMENT  3
**Prerequisite:** JDM*103
A course exploring management theories and practices as they apply to radio and television broadcast stations, cable outlets and other electronic media facilities. Course topics include station management, programming, formats, sales, marketing and research, promotion, engineering, consultants and syndication.

JDM 332  RADIO PRODUCTION AND PROGRAMMING  3
**Prerequisite:** JDM*237
Instruction in production technique with special emphasis on producing a full scale radio program. This course examines the role of the production director, state-of-the-art gear and how radio formats impact on production mix down.

JDM 333  DIGITAL MEDIA TECHNOLOGIES  3
**Prerequisite:** JDM*232
This course explores more advanced and specialized video content using software-based tools. Students will go beyond basic shooting and editing and use the latest software tools to create broadcast-ready content including show opens, film trailers, graphics, and stop frame animation projects.

JDM 335  BROADCAST ANNOUNCING  3
**Prerequisite:** JDM*133
This is a course designed to improve presentation skills in the area of radio and television announcing. Students will learn proper techniques and voicing skills associated with announcing various types of radio and TV copy, including commercials, news, and sports. Assignments are written and performance based.

JDM 336  BROADCAST REPORTING AND WRITING  3
**Prerequisite:** JDM*245, JDM*246
Building off the foundation built in JDM 245 and 246, students will focus on the process of gathering, writing and presenting news for broadcast. Students will gather and edit video and audio, as well as prepare web versions of their stories. Student work will air on WRDL and AUTV-20 and be posted on The Collegian website.
JDM 337  ADVANCED AUDIO PRODUCTION  3
Prerequisite:  JDM*237
Building from the skills learned in JDM 237, this course covers more advanced practices, procedures and techniques of audio field and studio production and post-production with emphasis on the design and construction of professional quality audio production involving complex mixture of audio techniques. Advanced non-linear software-based sound editing is also introduced.

JDM 342  SPORTS JOURNALISM  3
Prerequisite:  JDM*245, JDM*246
This course is designed to instruct students in comprehensive news-gathering and disseminating skills within the specific context of sports. Emphasis will be placed on the practices of sports reporting including game stories, interviews, features, the gathering and use of sports statistics, and the use of social media in sports journalism. Students will cover Ashland University sporting events and produce written pieces for use in The Collegian, and multi-media pieces for use on AshlandCollegian.com, WRDL-FM, and AU-TV20.

JDM 403  MASS MEDIA EFFECTS  3
Prerequisite:  Junior status
This course is an intensive study of the effects of different forms of mass media on the audiences who consume media content. Students will explore the different theories and research in this field in order to gain a better understanding of the social and cultural impact of media systems. Meets Core credit for social sciences.

JDM 405  THE GLOBAL IMPACT OF SOCIAL MEDIA  3
Prerequisite:  Junior status
This course will study the evolution of social media and how it has changed the way society communicates and consumes information and content on a global scale. The course will focus on the application of relevant media theories in order to better understand how social media has shaped us as individuals and restructured interpersonal and mass communication on a societal level. Meets Core credit for social sciences and GPS-Border Crossings.

JDM 407  NARRATIVE JOURNALISM  3
Prerequisite:  JDM*307 or JDM*336
A course designed to instruct students in the development of long-form narrative journalism and the study of contemporary journalism. Class assignments will involve extensive field research and the writing of in-depth, nuanced narrative stories with multimedia components accompanying.

JDM 412  ADVANCED POST PRODUCTION AND EDITING  3
Prerequisite:  JDM*333
This course covers the advanced techniques of non linear video editing and special effect creation. It includes the creation and use of computer-generated graphics and digital video effects during the editing process. Students will produce video and web content. This course builds on skills learned in JDM 133, 232, 333.

JDM 436  INTERNSHIP IN DIGITAL MEDIA  3
Prerequisite:  Junior status
A - Digital Media Journalism  B- Digital Media Production

JDM 437  MULTIPLATFORM AUDIO PRODUCTION  3
Prerequisite:  JDM*337
This course is designed to develop an understanding of the relationship of audio production or podcasting to various related media including multimedia and broadcast. Sound design and the creation and recording of audio assets are stressed as the student develops the conceptual and practical know-how to operate as a creative producer of digital media.

Latin (LTN)

LTN 110  ELEMENTARY LATIN I  3
Prerequisite:  None
An introduction to Latin grammar, vocabulary, and syntax; and, through the study of the language, the culture of ancient Rome.

LTN 210  ELEMENTARY LATIN II  3
Prerequisite:  LTN*110
A continuation of LTN 110. By the end of Latin 210, students will be beginning to read ancient Latin texts.

LTN 310  INTERMEDIATE LATIN I  3
Prerequisite:  LTN*210
This course reviews and confirms knowledge of grammar, syntax, and vocabulary while also introducing students to Latin authors such as Horace, Cicero, Catullus, or Vergil, through which students will deepen their knowledge of the life, culture, and politics of ancient Rome. Meets Core credit for GPS Value-Added or Border Crossings.

Mathematics (MATH)

MATH 100  DEVELOPMENTAL MATHEMATICS  3
Prerequisite:  None
Designed to prepare students for courses having a prerequisite of one year of high school algebra. Students are placed in the course by ACT/SAT scores and high school records. This course is not open to a student with grade C or higher in any of the courses below. May not be applied to any mathematics/science requirement for graduation. Course will be graded A,B,C (with pluses or minuses) or U. If a U is earned, course must be repeated.

MATH 110  FINITE MATHEMATICS  3
Prerequisite:  Two years of high school algebra
Covers some topics of modern mathematics including principles of counting, probability, matrices, linear programming, and mathematics of finance with applications to biology, business, economics, and other social sciences. Meets Core credit for math/logic.

MATH 111  PRECALCULUS  3
Prerequisite:  Two years of high school algebra
A study of functions, functional notation, trigonometric functions, logarithmic and exponential functions. Preparation for calculus.

MATH 201-202  CALCULUS WITH APPLICATIONS TO MANAGEMENT, LIFE, AND SOCIAL SCIENCES I-II  3.3
Prerequisite:  Two years of high school algebra; one year of high school geometry;  MATH*201 is a prerequisite for MATH*202
Functions, limits, techniques of differentiation and integration, with applications in the natural, social and management sciences. Does not count toward a major in mathematics. 201 meets Core credit for math/logic.
Course Descriptions

MATH 205-206 THE CALCULUS I - II 5-5
Prerequisite: MATH*111 or equivalent; MATH*205 is a prerequisite for MATH*206
Essentials of analytic geometry, the theory and techniques of differentiation and integration with applications in business, social, and natural sciences. 205 meets Core credit for math/logic.

MATH 208 ELEMENTARY STATISTICS 3
Prerequisite: Math ACT score of 18 or above or math SAT score of 480 or above, or MATH*100
An introductory course designed to meet the needs of students in biology, business, economics, education, nursing, psychology, and sociology. Sample and theoretical frequency distributions, data dispersion and central tendency, estimation, hypothesis testing, correlation, and analysis of variance are topics studied. Meets Core credit for math/logic.

MATH 217 THEORY OF ARITHMETIC AND GEOMETRY 3
Prerequisite: Math ACT score of 18 or above or math SAT score of 480 or above, or MATH*100
A study of the mathematical theories and concepts underlying intermediate arithmetic and geometry. Topics include number theory, number systems, elementary probability, geometry, estimation, mathematical reasoning, problem solving, and communication. The course will emphasize the use of group work and manipulatives. Meets Core credit for math/logic.

MATH 218 GEOMETRY FOR MIDDLE GRADES 3
Prerequisite: MATH*217
A study of mathematical concepts and procedures for teaching in the middle schools. Topics include knowledge of the NCTM Standards, 3-dimensional geometry, axiomatic systems, experimental probability, algebra, algorithmic techniques, and technology. Emphasis on group work and manipulatives.

MATH 223 DISCRETE MATHEMATICS I 3
Prerequisite: Three years high school college prep math, MATH*223 is a prerequisite for MATH*224
An introduction to set theory, logic, relations, functions, sequences, algorithms, number theory, and combinatorics. Meets Core credit for math/logic.

MATH 224 DISCRETE MATHEMATICS II 3
Prerequisite: MATH*223
A continuation of Math 223. A further exploration of foundational discrete structures and their applications to computer science. Topics include recurrence relations, graph theory, tree structures, and network models.

MATH 250 MATHEMATICAL PROOF 1
Prerequisite: MATH*223
An introduction to the elements of mathematical proofs. Various forms and techniques of writing mathematical proofs are covered.

MATH 305 THE CALCULUS III 4
Prerequisite: MATH*206
A study of infinite series, power series, solid analytical geometry, and multivariate calculus.

MATH 307 LINEAR ALGEBRA 3
Prerequisite: MATH*202, MATH*206 or MATH*224
A study of vector spaces, linear transformations, determinants, and matrices.

MATH 308 OPERATIONS RESEARCH 3
Prerequisite: MATH*224
An introduction to the theory and computer assisted solution of problems in operations research, such as Markov chains, replacement models, inventory models, queuing theory, linear programming, and transportation models.

MATH 309 HISTORY OF MATHEMATICS 3
Prerequisite: MATH*223; MATH*202 or MATH*206
A survey of the historical development of mathematics through the calculus, together with problems appropriate to the topics and period being studied.

MATH 311 MODERN GEOMETRY 3
Prerequisite: MATH*206, MATH*223, MATH*250
A study of fundamental geometric properties such as straightness, symmetry, congruency, and parallelism as they exist in planes and other surfaces.

MATH 313 ELEMENTARY DIFFERENTIAL EQUATIONS 3
Prerequisite: MATH*206
An introductory course in elementary differential equations with applications to geometry, chemistry, physics, and the life and social sciences. Some topics include exactness, Bernoulli's equations, differential operators, and Laplace transform.

MATH 314 NUMERICAL ANALYSIS 3
Prerequisite: MATH*206

MATH 317 PROBABILITY 3
Prerequisite: MATH*223, MATH*250; MATH*202 or MATH*206
A study of the fundamental concepts of probability theory, discrete and continuous probability functions, independence, conditional probability, Bayes' theorem, joint densities, and mathematical expectations.

MATH 318 MATHEMATICS OF STATISTICS 3
Prerequisite: MATH*250, MATH*305 and MATH*317
Introduction to the theory and applications of mathematical statistics, moment generating functions, central limit theorem, estimation, and hypothesis testing.

MATH 319 NUMBER THEORY 3
Prerequisite: MATH*206, MATH*223 and MATH*250; CS*121 recommended
An introductory course in the fundamentals of number theory. Emphasis on proof techniques, Euclidean algorithm, primes, congruences, continued fractions, and Euler Phi function, with applications to computer science, cryptography, and mathematics education.

MATH 320 FINANCIAL MATHEMATICS 3
Prerequisite: MATH*223, MATH*305
Introduction to the fundamental concepts of financial mathematics, and how these concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flows. Also provides an introduction to financial instruments, including derivatives, and the concept of no-arbitrage as it relates to financial mathematics.
MATH 341 APPLIED REGRESSION ANALYSIS 3
Prerequisite: MATH*208 or MATH*318
The student will learn to execute three major steps in the data analysis process: to identify the appropriate statistical technique for a given research problem; to conduct analyses using the SPSS for Windows computer software (one-sample, dependent-samples, and independent-samples t tests, one-way ANOVA, two-way ANOVA, simple regression and correlation, multiple regression, chi-square tests, discriminant analysis, factor analysis, and multivariate analyses); and to interpret the statistical values generated by these various analytical tools. BUS/MATH credit.

MATH 415 INTRODUCTION TO MODERN ALGEBRA 3
Prerequisite: MATH*223, MATH*250 and MATH*307
An introduction to abstract algebraic systems through the study of groups, rings, and fields.

MATH 417 INTRODUCTION TO ANALYSIS 3
Prerequisite: MATH*250 and MATH*305
The real number system, indeterminate forms, partial differentiation, infinite series, multiple and improper integrals are treated more rigorously than in the elementary course.

MATH 432 GRADES 7-12 METHODS: TEACHING MATHEMATICS, GRADES 7-12 3
Prerequisite: EDCT*230; Clinical Hours: 4
A course designed to provide the student with classroom instructional skills, methods, and strategies in teaching grades 7-12. This class is to be completed successfully prior to the Internship.

MATH 450 SEMINAR 1
Prerequisite: Junior or Senior math majors
Various topics in mathematics will be investigated. Content will vary depending upon the interests and needs of the students. Students, invited speakers, and faculty will present topics. May be repeated for a total of 4 hours.

MATH 470 SPECIAL TOPICS IN MATHEMATICS 1-3
Prerequisite: MATH*305 or MATH*307
A course devoted to various topics of mathematical interest. May be repeated for credit as topics change.

Management (MGT)

MGT 100 CONTEMPORARY BUSINESS 3
Prerequisite: None
The purpose of this course is to introduce the student to the organization and operation of the basic product- and service-producing institutions in our society-business firms—and the economic environment in which these businesses make decisions.

MGT 240 INTRODUCTION TO MANAGEMENT 3
Prerequisite: None
A survey course which aims to familiarize students with accepted management theory as well as contemporary thinking that might challenge the assumption forming the foundation of traditional management practices. Students will learn the management functions of planning, organizing, leading and controlling in the context of a changing global environment and explore ethical issues facing managers working with today's diverse workforce.

MGT 307 ORGANIZATIONAL THEORY & DESIGN 3
Prerequisite: MGT*240
An advanced macro approach to business organizational studies with a comprehensive survey and analysis of contemporary findings interpreted with current theory and its application to all phases of business management, personnel, production and/or service, material and control.

MGT 318 ORGANIZATIONAL BEHAVIOR 3
Prerequisite: MGT*240
A human relations approach to personnel selection and development, human engineering and motivation, supervision and work efficiency, individual and group behavior in business organizations, evaluation and testing, organizational development and control.

MGT 319 OPERATIONS MANAGEMENT 3
Prerequisite: MGT*240 and MATH*208
This is an introduction to the operations function. A study of modern theory and practice relating to the operations function in both manufacturing and service organizations. Quantitative management tools will be surveyed.

MGT 323 BUSINESS COMMUNICATION 3
Prerequisite: ENG*102
Upon completion of the course, the student will be able to communicate effectively in the business world. This will be demonstrated by actual business situations involving sales, goodwill, routine requests, unpleasant news, credit and collections, resumes and cover letters, follow-up letters and interviewing techniques. For sophomores and juniors.

MGT 324 HUMAN RESOURCE MANAGEMENT 3
Prerequisite: MGT*307, MGT*318
The basic function of management as applied to personnel problems of a business organization. Consideration given to special problems of employment, health, safety, labor relations and morale, employee education and training, wages and salaries.

MGT 325 INTERPERSONAL COMMUNICATION FOR BUSINESS 3
Prerequisite: MGT*307 and MGT*323
Students will investigate and practice a variety of communication techniques in face-to-face situations as they arise in the relationship between supervisors and their subordinates. Orientation will be toward communication objectives and methods needed to effectively manage a productive enterprise or project.

MGT 327 RISK AND INSURANCE 3
Prerequisite: ECON*232, ECON*233, MATH*208
Economic theory of risk, its significance and treatment; theory and practice of property, liability, life and health insurance.

MGT 340 MANAGEMENT SCIENCE 3
Prerequisite: IS*221, MATH*208
A survey of techniques of management science, an approach to managerial decision making that involves the use of quantitative tools of analysis. Topics covered will include linear programming, queuing models, simulation, decision analysis, and networking models for project management.
MGT 343 SOCIAL RESPONSIBILITY AND BUSINESS ETHICS
Prerequisite: MGT*240
A study of the moral, ethical and social roles of enterprise. Working from a historical perspective, the changing patterns of values and normative models of behavior tolerated, expected or required by society will be explored. Contributions from other disciplines will be utilized.

MGT 401 BUSINESS LAW I
Prerequisite: Junior status
Introduces the business student to the legal principles involved with contract law, real property, personal property, bailment law and agency law.

MGT 402 BUSINESS LAW II
Prerequisite: MGT*401
An in-depth examination of particular legal principles including, but not limited to, the Uniform Commercial Code, labor and other employment law, consumer protection, product liability law and administrative agency law.

MGT 423 COMPENSATION AND BENEFITS
Prerequisite: MGT*324
This course is an introduction to the use, design, and effectiveness of systematic approach will be utilized in investigating organizational and employee behavior, practices, and legal constraints in designing/implementing compensation and benefit programs.

MGT 424 TRAINING & DEVELOPMENT
Prerequisite: MGT*324
This course is an introduction to training and development in organizations. Students will have the opportunity to analyze, assess, design, plan, and evaluate training programs. The course will examine the process in assembling and delivering a training program. This includes assessment of training needs and the evaluation of training programs within the context of organization and global markets.

MGT 425 EMPLOYMENT LAW & LABOR RELATIONS
Prerequisite: MGT*324
A comprehensive course designed to investigate employment law, employee and labor relations and their resulting impacts in organizations. It introduces employment law examining the application of statutes and case law. This course studies the evolution of U.S. employment laws, labor unions, bargaining techniques, contract administration, with emerging issues in the U.S. and globally.

MGT 450 SPECIAL TOPICS FOR MANAGEMENT
Prerequisite: Senior status
A course devoted to various topics of current management issues. May be repeated once for different topics with approval of management faculty.

MGT 480 GLOBAL MANAGEMENT
Prerequisite: MGT*240, senior status
The course deals with the strategic management of multinational/transnational corporations, focusing on the international environment, competitive strategy formulation, implementation and control along with MNC organization design and structure. Figuring prominently in the course will be comparative management issues related to managing in different international settings, particularly issues that relate to increasing firm competitiveness in the global context. Meets Core credit for GPS-Border Crossings.

MGT 489 SENIOR SEMINAR - BUSINESS CAPSTONE
Prerequisite: COBE major and senior status
This interdisciplinary course integrates content from a variety of disciplines, including business and economics. Students will examine multiple objectives, synthesize concepts, identify problems, analyze and evaluate alternate solutions, and put knowledge into practice.

MGT 499 SENIOR ASSESSMENT
Prerequisite: COBE major and senior status
The student earning a business degree is required to demonstrate competence in the areas of specialized business knowledge, managerial thinking, and verbal and written communication skills. In this course, the student will create an electronic portfolio to demonstrate levels of competence in these three major categories. In addition, the student may include documentation of competencies and accomplishments specifically related to their majors and/or minors.

Marketing (MKT)

MKT 233 PRINCIPLES OF MARKETING
Prerequisite: None
This course outlines the essential concepts, principles and terminology required to understand basic marketing. Materials will deal with the areas of promotion, distribution, product development, the general marketing environment and information sources for marketing decisions.

MKT 310 INTERNATIONAL BUSINESS/CULTURE
Prerequisite: None
Treats the interrelationship of the cultures of other nations with that of the U.S. within a business setting. The first half of the course focuses on cross-cultural relations, using role-playing and cross-cultural awareness games. The second half focuses on the impact of culture on international and multinational business, including such subjects as bribery, morality, and people-relations. Meets Core credit for GPS-Border Crossings.

MKT 311 MARKET ANALYSIS AND RESEARCH
Prerequisite: IS*221, MKT*233 and MATH*208
Students will be exposed to the research process with a focus on the analysis of the data provided through this process. Topics covered will include investigation into market stratification, validation of data and statistical analysis and significance of data.

MKT 313 SALESMANSHIP
Prerequisite: MKT*233
Techniques of effective selling, the psychological marketing and economic elements of the salesman's job. Designed for students in all fields, as well as for those majoring in marketing and commercial education.

MKT 314 ADVERTISING PRINCIPLES
Prerequisite: MKT*233
A course in the general principles of advertising and sales promotion as applied to the sale of goods and services. A study of advertising agencies, advertising departments, copy, layouts, illustration and media and advertising research.

MKT 315 RETAIL MERCHANDISING
Prerequisite: MKT*233
A study of the operation and management of retail establishments, including detailed consideration of problems in store policies, organizations, location, services, buying, sales systems and records.
MKT 317 INTERNATIONAL MARKETING 3
Prerequisite: MKT*233
The integration of the basic elements of marketing into the international marketing system. The application of marketing strategies into the global market, creating an international business entity and arranging all elements of the business to compete globally.

MKT 326 CONSUMER BEHAVIOR 3
Prerequisite: See Psyc 306 for course description.

MKT 333 SERVICES MARKETING 3
Prerequisite: MKT*233
Presents the concepts that differentiate the marketing of services from the marketing of products. Topics for discussion include the services marketing mix, customer retention, and service quality.

MKT 411 MARKETING MANAGEMENT 3
Prerequisite: Senior Status
A study of the factors involved in the management of the marketing function. Focus is on the achievement of the firm's goals through product development, promotion, pricing and physical distribution. The marketing structure is studied as a system within the competitive market economy.

MKT 451 SPECIAL TOPICS IN MARKETING 3
Prerequisite: Senior Status
A course devoted to various topics related to current issues in marketing. May be repeated once for different topics with approval of marketing faculty.

**Multidisciplinary Studies (MDS)**

MDS 490 MULTIDISCIPLINARY CAPSTONE EXPERIENCE 3
Prerequisite: This capstone experience requires students completing a multidisciplinary major to produce a written reflection that summarizes the characteristics that distinguish each of their cognate areas and to identify important concepts, skills, and values they have acquired throughout their program of study. Students will also work with a faculty mentor to apply their learning through an internship and/or appropriate project that involves gathering and presenting information from multiple sources.

**Music (MUSIC)**

MUSIC 010 CORE CREDIT FOR APPLIED MUSIC AND ENSEMBLES
Prerequisite: Private applied music courses and all ensembles, except for 040 Orchestra, meet up to 3 hours of Core credit for aesthetics. All applied music courses and ensembles may be repeated for credit.

MUSIC 010A UNIVERSITY CONCERT BAND 1
Prerequisite: Audition
Concert Band meets in the spring semester only. Membership is open to students of all majors. This ensemble stresses a high level of artistry and musicianship and is intended to be an active medium for the study and performance of fine literature for the modern band. For music majors, it also provides the opportunity to observe rehearsal techniques and to reinforce and synthesize other aspects of their musical study. The ability to play a wind or percussion instrument is a prerequisite. Major ensemble.

MUSIC 011 BRASS ENSEMBLE .5
Prerequisite: Audition
Students will study, practice, and perform brass chamber music.

MUSIC 012 WOODWIND ENSEMBLE .5
Prerequisite: Audition
Students will study, practice, and perform woodwind chamber music.

MUSIC 013 PERCUSSION ENSEMBLE .5
Prerequisite: Audition
Students will study, practice, and perform percussion ensemble music.

MUSIC 014 JAZZ ENSEMBLE 1
Prerequisite: Audition
Students will sight read, rehearse and perform jazz music in the big band idiom at their highest potential. In addition to campus performances, there will be concerts and tours off campus.

MUSIC 015 JAZZ COMBO .5
Prerequisite: Audition
Students will study, practice, and perform jazz music with emphasis on improvisation.

MUSIC 016 WIND ENSEMBLE .5
Prerequisite: Audition
Wind ensemble meets in the fall semester only. Membership is open to students of all majors and is made up of outstanding wind and percussion players from the University and community. It offers the advanced player the opportunity to study and perform serious literature written or transcribed for this medium. For music majors, it also provides the opportunity to observe rehearsal techniques, broaden their knowledge of literature and to reinforce and synthesize other aspects of their musical study. The size of the ensemble is flexible depending upon the literature chosen.

MUSIC 020 WOMEN'S CHORUS .5
Prerequisite: Audition
Promotes healthy vocalization, musical literacy and artistic development through choral music for treble voices.

MUSIC 022 UNIVERSITY CHOIR 1
Prerequisite: Audition
Allows students to rehearse, learn, and perform music suitable for the choral medium to a high degree of artistic excellence. Major ensemble.

MUSIC 030 CHAMBER SINGERS .5
Prerequisite: Audition
Allows students to rehearse, learn, and perform music suitable for vocal chamber ensembles to a high degree of artistic excellence. In the fall semester, the focus is usually on a traditional Renaissance Madrigal Feaste.
MUSIC 031  OPERA WORKSHOP  .5
Prerequisite: Audition
Students will rehearse, learn, and perform operatic literature resulting in a
staged and costumed production at the end of the semester.

MUSIC 040  ORCHESTRA  .5
Prerequisite: Audition
Students study, practice, and perform symphonic music. Participation is by
invitation of the Personnel Manager of the Ashland Symphony Orchestra.
Graded S/U.

MUSIC 050  SPECIAL ENSEMBLE  .5
Prerequisite: Audition
The preparation and performance of music composed for a particular
combination of resources not covered by other ensembles.

MUSIC 051  ASHLAND AREA COMMUNITY  .5
CONCERT BAND
Prerequisite: None
This band is intended for both university students and members of the
Ashland community to continue their musical study, creative activity and
aesthetic enrichment. It meets one evening per week in both fall and spring
semesters. The band performs once in the fall semester and several times in
the spring. It performs a wide variety of literature from Broadway
selections and classic marches to masterworks transcribed or written for
concert band. The ability to play a wind or percussion instrument is a
prerequisite. No audition is required.

MUSIC 052  ASHLAND AREA CHORUS  .5
Prerequisite: None
A mixed chorus that allows students to rehearse, learn, and perform choral
music to a high degree of artistic excellence. Previous choral singing is
helpful, though not required. This chorus sings regularly with the Ashland
Symphony Orchestra. No Audition is required.

MUSIC 102  RECITAL ATTENDANCE  0
Prerequisite: None
A course in which music majors document their attendance at music
performances both on and off campus.

MUSIC 130  BASIC GUITAR MUSICIANSHIP  3
Prerequisite: None
An introduction to musical skills and concepts taught primarily through
study of the guitar. Topics include music reading and notation,
performance skills, and listening. Meets Core credit for aesthetics.

MUSIC 150  PRINCIPLES OF MUSIC MAKING  3
Prerequisite: None
An introduction to musical skills and concepts including notation, piano,
treble recorder, and singing. Meets Core credit for aesthetics.

MUSIC 204  GENERAL MUSIC METHODS I  3
Prerequisite: MUSIC*271, EDFN*130; music education major
Curriculum, methodology, materials, and practice in music appropriate for
K-8, including observations, experiences, and lectures pertaining to actual
classroom procedure. Limited work in pre-K (ages 3-4) will be included.
For music education majors.

MUSIC 205  MUSIC COMPOSITION I  2
Prerequisite: MUSIC*272
Introduction to music composition including modal counterpoint, writing
for strings, writing for voices, and 20th century style.

MUSIC 209  BRASS TECHNIQUES  2
Prerequisite: Music major
Prerequisite: Music Major. Playing skills and pedagogical principles and
techniques of common brass instruments.

MUSIC 211  CLASS PIANO I  2
Prerequisite: Diagnostic exam
This course is designed primarily to serve music majors and minors.
Content includes basic piano technique, beginning repertoire,
harmonization of melodies, major scales and arpeggios, and building of
overall musicality.

MUSIC 212  CLASS PIANO II  2
Prerequisite: MUSIC*211
This course is designed primarily to serve music majors and minors.
Content includes intermediate piano technique, intermediate level
repertoire, harmonization of melodies, minor scales and arpeggios, and
continued building of overall musicality.

MUSIC 213  STRING TECHNIQUES  2
Prerequisite: Music major
Prerequisite: Music Major. Playing skills and pedagogical principles and
techniques of orchestral string instruments.

MUSIC 214  VOICE METHODS FOR
INSTRUMENTAL MAJORS
Prerequisite: Music major
Prerequisite: Music Major. To familiarize the instrumental music education
major with basic vocal techniques, including breathing, posture, diction,
and vocal health.

MUSIC 216  VOCAL DICTION I  2
Prerequisite: MUSIC*330 or MUSIC*340
An in-depth study of English and foreign language diction for singers
encompassing the fundamentals of the International Phonetic Alphabet and
its direct application to repertoire.

MUSIC 217  VOCAL DICTION II  2
Prerequisite: MUSIC*216 and music major
A continuation of 216, with emphasis on French and German.

MUSIC 218  WOODWIND TECHNIQUES  2
Prerequisite: Music major
Prerequisite: Music Major. Playing skills and pedagogical principles and
techniques of common woodwind instruments.

MUSIC 220  PERCUSSION TECHNIQUES  1
Prerequisite: Music major
Prerequisite: Music Major. Playing skills and pedagogical principles and
techniques of common percussion instruments and accessories.

MUSIC 225  MUSICAL STYLE  3
Prerequisite: None
This course will examine the fundamental question of what distinguishes
different styles of music. The emphasis will be on music from the Western
Art Tradition, although some popular or non-Western styles may be
discussed as well. Meets Core credit for aesthetics.
MUSIC 226 MUSIC IN WORLD CULTURES  3
Prerequisite: None
In this course, we journey around the world, exploring how the music of various non-Western peoples intertwine with the beliefs and actions that make up culture. Whether used as a political weapon, a facilitator for spiritual experience, a marker of national identity, or a way to connect otherwise disparate groups, music opens a door to cross-cultural understanding. Meets Core credit for social sciences and GPS-Border Crossings.

MUSIC 237 FUNDAMENTALS OF CONDUCTING  2
Prerequisite: MUSIC*271
An introduction to basic baton technique, terminology, score reading, and communication.

MUSIC 250 TOPICS IN MUSIC APPRECIATION  3
Prerequisite: None
An introductory course for non-music majors dealing with various single topics in music appreciation. For the specific topic offered, consult the course schedule. Topics may include Jazz, World Music's, American Musical Theatre, Understanding Opera, American Music, or 20th Century Music. Meets core credit for aesthetics.

MUSIC 251 TOPICS IN MUSIC APPRECIATION: LOVE SONGS  3
Prerequisite: None
Musicians from a wide variety of time periods and styles have composed songs about love. This course will explore selected love songs from Western culture, from medieval troubadour ballads to current show and pop tunes. Emphasis will be on understanding how artists have used music to express texts about love and how musical expressions of love have changed over time. Meets Core credit for aesthetics.

MUSIC 252 TOPICS IN MUSIC APPRECIATION: MUSIC AND DRAMA ACROSS CULTURES  3
Prerequisite: None
Whether you attend a puppet show, a movie, or an opera, and whether you live in New York or New Delhi, you rarely find drama separated from music. What does music add to drama? Why have so many cultures found it effective? Which uses of music in drama are universal? Local? This course examines the interaction of music and drama in a variety of cultural traditions, from ancient Chinese opera to the latest Hollywood blockbuster. Meets Core credit for aesthetics and GPS-Border Crossings.

MUSIC 270 INTRODUCTION TO INSTRUMENTAL MUSIC  2
Prerequisite: MUSIC*271
Playing skills and pedagogical principles and techniques of selected wind and string instruments. For vocal music education majors.

MUSIC 271 MUSIC THEORY AND AURAL SKILLS I  3
Prerequisite: Diagnostic exam
Introductory materials in music theory and aural skills, including music fundamentals, solfege, and ear training.

MUSIC 272 MUSIC THEORY AND AURAL SKILLS II  4
Prerequisite: MUSIC*271
Continued study of materials in music theory and aural skills, including part-writing of diatonic music, solfege, ear training, and keyboard harmony.

MUSIC 303 JUNIOR RECITAL  0
Prerequisite: Concurrent with MUSIC*44- or MUSIC*45-
Performance of the Junior Recital as required for music majors.

MUSIC 305 MUSIC COMPOSITION II  2
Prerequisite: MUSIC*205
Study of music composition including tonal counterpoint, writing for woodwinds, writing for chamber ensembles, and 20th century style.

MUSIC 320 MUSIC HISTORY SURVEY  3
Prerequisite: MUSIC*150 or MUSIC*271 or MUSIC*272
This course surveys the history of Western Classical music. Students will become familiar with the major composers, historical periods, genres, and stylistics trends of Western classical music history.

MUSIC 325 GENERAL MUSIC METHODS II  2
Prerequisite: MUSIC*204, MUSIC*271, EDFN*130
Curriculum, methodology, materials, and practice in music appropriate for K-8, including observations, experiences, and lectures pertaining to actual classroom procedure. Limited work in pre-K (ages 3-4) will be included. For music education majors, vocal track. (Instrumental majors may take as an elective.)

MUSIC 348 KEYBOARD HARMONY  2
Prerequisite: MUSIC*271, MUSIC*241 or MUSIC*341
This course serves the music education major with choral emphasis and focuses on accompanying, improvisation, and score-reading skills.

MUSIC 371 MUSIC THEORY AND AURAL SKILLS III  4
Prerequisite: MUSIC*272
Continued study of materials in music theory and aural skills, including part-writing of diatonic and chromatic music, solfege, ear training, and keyboard harmony.

MUSIC 372 MUSIC THEORY AND AURAL SKILLS IV  4
Prerequisite: MUSIC*371
Continued study of materials in music theory and aural skills, including part-writing of chromatic music, analysis of form, solfege, ear training, and keyboard harmony.

MUSIC 375 INSTRUMENTAL CONDUCTING  3
Prerequisite: MUSIC*237
Conducting techniques, literature, materials and curriculum for the teaching of instrumental music.

MUSIC 376 CHORAL CONDUCTING  3
Prerequisite: MUSIC*237
Conducting techniques, choral literature, and rehearsal materials designed to prepare choral conductors.

MUSIC 380 MUSIC HISTORY SEMINAR I  3
Prerequisite: MUSIC*150 or MUSIC*271 or MUSIC*272
This is a seminar that explores Western classical music. A variety of topics, spread across the history of Western classical music, will be chosen to explore. Students will gain an in-depth understanding of several representative periods, styles, genres, and composers of Western classical music and be able to understand and place them within their historical context. Meets Core credit for historical reasoning.
MUSIC 381 MUSIC HISTORY SEMINAR II 3  
Prerequisite: MUSIC*150 or MUSIC*271 or MUSIC*272  
This seminar focuses on non-Western and popular musical styles. A variety of topics will be chosen to explore, and students will learn about the major genres, composers, and performers of these musical styles, as well as their societal function. Meets Core credit for GPS-Border Crossings.

MUSIC 395 CURRICULUM AND METHODS OF TEACHING INSTRUMENTAL MUSIC 3  
Prerequisite: MUSIC*271, EDCI*230PK  
To provide the instrumental music education student with a foundation for the teaching and administration of the instrumental music program in elementary schools, secondary schools, pre-band/orchestra programs, and adult community ensembles. Includes methodology for effective teaching of performance based classes and non-performance courses as well as licensure issues.

MUSIC 396 CURRICULUM AND METHODS OF TEACHING CHORAL MUSIC 3  
Prerequisite: MUSIC*271, EDCI*230PK  
A study of music teaching which provides the choral music education student with a foundation of teaching methodologies, classroom management strategies, and insights to effectively teach and administer the choral music program in the secondary schools.

MUSIC 403 SENIOR RECITAL 0  
Prerequisite: Concurrent with MUSIC*44- or MUSIC*45-  
Performance of the Senior Recital as required for music majors.

MUSIC 405 ADVANCED MUSIC COMPOSITION 2  
Prerequisite: MUSIC*305  
Continued study of composition including 20th century counterpoint, writing for brass, writing for percussion, and 20th century style. May be repeated as needed.

MUSIC 472 MUSIC THEORY AND AURAL SKILLS V 3  
Prerequisite: MUSIC*372  
Continued study of materials in music theory and aural skills, including chromaticism, analysis of form, twentieth century music, solfege, ear training, and keyboard harmony.

MUSIC 477 INSTRUMENTAL ARRANGING 1  
Prerequisite: MUSIC*372  
Developing the skills and knowledge to enable students to write simple instrumental arrangements.

MUSIC 478 CHORAL ARRANGING 1  
Prerequisite: MUSIC*372  
Basic skills in choral arranging for music educators, including practical applications of music technology. This course seeks to develop the skills and knowledge that enable students to write simple choral arrangements.

MUSIC 479 SEMINAR IN PEDAGOGY AND LITERATURE 2  
Prerequisite: MUSIC*45-  
Survey of standard musical repertoire for voice or a specific instrument; study of common pedagogical principles, concepts and materials for voice or a specific instrument.

MUSIC 497 SENIOR PROJECT 2  
Prerequisite: MUSIC*471  
The Senior Project is a music composition, a research paper, or an analysis paper required of those students seeking a B.A. in music. It must be approved by the Music faculty. One faculty member should serve as the project advisor.

MUSIC 499 MUSIC SKILLS EXAMS 0  
Prerequisite: Music major  
Exams in keyboard skills and classroom music skills as required by program. Exams are offered at least once per semester.

For Applied Music courses refer to page 236.

Applied Music Courses

Prerequisites: For Music Major: acceptance to program, written permission each semester before enrolling, and for the 400 level, pass 300 level change. For Music Minor: acceptance to program, written permission each semester before enrolling, availability of instructor, and passing grade in MUSIC 150 or 271 or demonstrated proficiency. General Student (not major or minor): 120 level--ability to read melodic and rhythmic notation in clef appropriate to instrument or voice appropriate for successful study; or passing grade in MUSIC 150 or demonstrated proficiency; and availability of instructor; written permission each semester before enrolling.

Weekly individual and group instruction. Content includes the study of standard repertoire for the instrument or voice comprising but not limited to solo classical repertoire. Emphasis is placed on use of listening skills, development of proper technique, and productive practice. Outside practice is essential. (Meets up to 3 hours of Core aesthetics credit)

Applied Music Juries and Recitals

Any student receiving two hours credit in applied music will be required to perform satisfactorily at two (2) departmental/area recitals per semester. Any student receiving one hour credit will be required to perform satisfactorily at one departmental/area recital per semester. Faculty members present at the recitals will determine whether or not the performances are satisfactory or unsatisfactory. Failure to comply with recital performance requirements will result in the reduction of applied lesson grades.

Juries are required of all students studying applied music for credit. At least three faculty members will be present at all juries. The student will receive a written, graded critique from each faculty member present. These evaluations will be considered by the instructor in determining the student’s final applied grade.

Any solo for a recital or jury which requires accompaniment will not be accepted unless it is performed with the appropriate accompaniment.
Nursing (NUR)

NUR 105  NURSING CONCEPTS AND VALUES  1
Prerequisite  Admission to CONHS

This course is designed to introduce students to the profession of nursing. The course provides an introduction to core values of nursing, insights into nursing as a profession, and a brief introduction to nursing history. Emphasis is on communication, caring, and ethics. Curricular concepts are incorporated as foundational to the nursing program.

NUR 225  PATHOPHYSIOLOGY / PHARMACOLOGY I  3
Prerequisite  BIO*223, BIO*240 (or concurrent), CHEM*251 (or concurrent), CHEM*253, NUR*105 (or concurrent)

This course introduces the study of pathophysiology and pharmacology as a scientific foundation for nursing practice. The course focuses on specific pharmacotherapeutics employed in treating pathophysiologic conditions. Topics included are: cell biology, genes and genetic diseases, fluid and electrolytes, acids and basis, immunity, inflammation, the neurological system including pain and pain management, and the cardiovascular system.

NUR 226  PATHOPHYSIOLOGY / PHARMACOLOGY II  3
Prerequisite  NUR*225

This course continues NUR 225 in the study of pathophysiology and pharmacology as a scientific foundation for nursing practice. The course focuses on specific pharmacotherapeutics employed in treating pathophysiologic conditions across the lifespan. It addresses specific principles and rationales necessary to recognize the relationship between pathophysiology, pharmacology and the provision of safe nursing interventions. Topics included are: pulmonary, renal, endocrine, hematology, gastrointestinal, musculoskeletal and reproductive, as well as anti-infectives and infectious disease and vitamins and minerals.

NUR 250  LPN TO BSN TRANSITION  4
Prerequisite  NUR 225 (or concurrent), PSYC 209

This course builds upon prior knowledge, skills, and abilities of qualified licensed practical nurses (LPNs) and facilitates advanced placement into the Bachelor of Science in Nursing program. The course provides an introduction to the roles of the professional nurse. Emphasis is on critical thinking skills, communication, health assessment, test taking strategies, and application of the nursing process across the life span. Students completing the 4-hour transition course will be eligible to advance to NUR 311, NUR 312, NUR 310, and NUR 335.

NUR 301  HEALTH ASSESSMENT  3
Prerequisite  NUR*105 (or concurrent), NUR*225 (or concurrent), NUR*304 (or concurrent), PSYC*209

This course introduces the student to the concepts, theory, and skills needed to perform a holistic health assessment, which is the basis for the nursing process and care of the patient across the lifespan.

NUR 302  NURSING PROCESS: THEORETICAL BASES  4

Prerequisite  None

The focus for study is selected middle-range and practice level theories that support the nursing process which serves as the mechanism to facilitate the implementation of theory and research-based nursing interventions. Curriculum concepts emphasized are: communication, critical thinking, therapeutic nursing interventions, and values/valuing.

NUR 303  INDIVIDUAL HEALTH  3
Prerequisite  RN Licensure

The course focuses on the nursing process as a tool to facilitate nursing practice with individual clients. For BSN completion students, the course will enhance the RN student's established assessment and diagnostic skills/competencies and facilitate development of new psychomotor, cognitive, and affective skills needed for comprehensive health care plans. Communication and assessment skills are utilized to establish a database for analysis. Health strengths and needs across the lifespan are determined through the individual analysis and synthesis of assessment data. Planning nursing care and implementing teaching for the purpose of health care promotion is emphasized.

NUR 304  HEALTH FOUNDATIONS I  3
Prerequisite  NUR*105, NUR*225, NUR*301 (or all concurrent), PSYC*209/FCS*270

Introduces the fundamental nursing concepts and skills, which makes up the foundation of nursing practice across the lifespan. The nursing process, communication, and caring is emphasized. Students will have the opportunity to apply concepts and psychomotor skills to an adult in a variety of health care settings.

NUR 306  HEALTH FOUNDATIONS II  5
Prerequisite  NUR*226 (or concurrent), NUR*301, NUR*304, successful completion of the Medication Calculation Exam

Continues to build on the concepts of NUR 304. Topics include the nursing process, problem solving, critical thinking, communication, physical assessment, and the psychomotor skills needed to provide holistic care for patients across the lifespan.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 307</td>
<td>TOPICS IN NURSING</td>
<td>3</td>
<td>None</td>
<td>A study of a specific aspect of nursing reflecting the changing focus of nursing practice. Topics will include such areas as nursing as computers in nursing, etc. May be repeated as topics change.</td>
</tr>
<tr>
<td>NUR 308</td>
<td>HEALTH PROMOTION FOR THE ELDERLY</td>
<td>3</td>
<td>None</td>
<td>This course is designed to assist students to develop increased knowledge about issues affecting health care of elderly. Community resources and health promotion strategies for aging populations will be explored. Attitudes toward aging will also be examined. NUR/SOCWK credit.</td>
</tr>
<tr>
<td>NUR 309</td>
<td>NURSING PROCESS: INTERNATIONAL AND TRANSCULTURAL PERSPECTIVES</td>
<td>3</td>
<td>None</td>
<td>The focus of this course is to gain an international perspective of health care issues. Through small group work, students will compare health-related values, beliefs, and practices in selected countries outside the United States with health-related values, beliefs, and practices within the United States. Incorporating this knowledge, students will then develop appropriate professional interventions for a specific sub-cultural group. Meets Core credit for GPS-Course with experience.</td>
</tr>
<tr>
<td>NUR 310</td>
<td>PSYCHIATRIC / MENTAL HEALTH</td>
<td>4</td>
<td>DIET<em>320, NUR</em>226, NUR*306</td>
<td>Focuses on nursing care of individuals, families and groups; health-promoting behaviors and strategies for optimal mental health; and prevention of illness. Course content further builds upon and develops relationship-centered caring; reflective and evidence-based practice; and application of the nursing process. The course explores theories, concepts, and symptoms of mental illnesses along with therapeutic interventions for those experiencing mental health alternations.</td>
</tr>
<tr>
<td>NUR 311</td>
<td>ADULT HEALTH CONCEPTS: REGULATION AND TRANSPORT</td>
<td>5</td>
<td>DIET<em>320, NUR</em>226, NUR*306</td>
<td>This course is one of two companion courses that combine the nursing process and evidence practice while caring for diverse patient populations with acute and chronic health alterations. This course prepares students to communicate, think critically, and make clinical judgments that focus on safety, health promotion and maintenance, psychosocial and physiological integrity. Topics include concepts related to regulation and transport. Clinical and simulation lab experiences are included in this course.</td>
</tr>
<tr>
<td>NUR 312</td>
<td>PROTECTION, SENSATION, AND MOBILITY</td>
<td>5</td>
<td>DIET<em>320, NUR</em>226, NUR*306</td>
<td>This course is one of two companion courses that combine the nursing process and evidence-based practice while caring for diverse patient populations with acute and chronic health alterations. This course prepares students to communicate, think critically, and make clinical judgments that focus on safety, health promotion and maintenance, psychosocial and physiological integrity. Topic include concepts related to protection, sensation and mobility. Clinical and simulation experiences are included in this course.</td>
</tr>
<tr>
<td>NUR 320</td>
<td>EDUCATIONAL STRATEGIES FOR NURSES</td>
<td>4</td>
<td>None</td>
<td>This course provides an overview of educational strategies for nurses. The focus for study is specific roles and responsibilities of the professional nurse to educate patients, peers, and the community. Curriculum concepts emphasized are adult learning theory, learner needs, teaching methods, styles of learning, professional responsibility, program and learner evaluation, and supportive and active learning environments. Students in the school nurse track will consider course concepts specifically in the context of school health education for adolescent and adult populations.</td>
</tr>
<tr>
<td>NUR 321</td>
<td>OVERVIEW OF DISASTER RESPONSE</td>
<td>3</td>
<td>None</td>
<td>This course provides an overview of the latest concepts in disaster response. The focus for study is specific roles and responsibilities of the civilian RN in response to natural and intentional disasters. Curriculum concepts emphasized are types of disasters, disaster preparedness, disaster management, unique populations, and legal/ethical concerns.</td>
</tr>
<tr>
<td>NUR 335</td>
<td>GENETICS IN NURSING PRACTICE</td>
<td>2</td>
<td>NUR<em>226, NUR</em>306</td>
<td>This course will provide the student with the foundational information necessary to care for patients from a genetic perspective. Professional nursing standards for genetics and genomics will guide the structure of the course presentation. Concepts of health, illness, and wellness as they relate to genetic patient care will be emphasized.</td>
</tr>
<tr>
<td>NUR 360</td>
<td>NURSING RESEARCH</td>
<td>3</td>
<td>None</td>
<td>The course focuses on appropriate research design, data collection tools, and analytical strategies. Students are taught to be consumers of research and to apply research findings to nursing practice.</td>
</tr>
<tr>
<td>NUR 362</td>
<td>NURSING THEORY, RESEARCH AND EVIDENCE-BASED PRACTICE</td>
<td>4</td>
<td>None</td>
<td>This course focuses on the contribution of theory and research to professional practice. Students are assisted to integrate roles, philosophies, and expectations with those appropriate to the baccalaureate prepared nurse. The focus for study is selected middle-range and practice level theories that support the nursing process which serves as the mechanism for implementation of theory and research-based nursing interventions. The student is assisted in the development of skills for critical appraisal of research reports to determine scientific merit and clinical relevance. The emphasis is on the application of established findings of research to practice. Each student will identify a researchable problem and complete a literature search. Roles of members of the research term will be explored.</td>
</tr>
</tbody>
</table>
NUR 405 NURSING PROCESS: HEALTH CARE SYSTEMS
Prerequisite MATH*208; NUR*303, NUR*362; NURCH*309
This course expands the utilization of the nursing process to health care delivery systems. The focus of the course is the professional nurse's leadership and management role in working effectively within various types of organizational systems. The course emphasizes a systems theory approach to the management of organizations. The management process is related to the nursing process in the context of planning, change, and evaluation. Organizational behavior, the change process and the management of the health care delivery, and the nursing care within organizations are components of this course. Professionalism, leadership-management concepts, and teaching-learning strategies are integrated with the nurse manager role to prepare the student to function as a change agent for health promotion, maintenance, and restoration in organized health care delivery systems. Clinical practice experiences focus on the application of relevant theory and research as a basis for critical thinking and decision making.

NUR 408 NURSING PROCESS: LEGAL, ETHICAL AND POLITICAL PERSPECTIVES
Prerequisite MATH*208; NUR*303, NUR*362; NURCH*309
This course concentrates on the professional role of the nurse as change agent for the profession and society. Present and future nursing roles related to public policy formation are identified while exploring their ethical, legal and political dimensions. Selected field experiences are an integral part of the courses. Emphasis is placed on strategies to influence public policy decisions that will promote ethical health care delivery.

NUR 410 COMPLEX HEALTH ALTERATIONS
Prerequisite NURFH*311, NURFH*312
This course focuses on the holistic nursing process of selected complex health problems and their impact on the patient, the family, and the adjustment to changes in patient and family lifestyles. The integration of conceptual models of nursing, nursing informatics, and evidence-based practice prepares students to communicate, collaborate, think critically, and make clinical judgments that focus on maintaining optimum safety, health promotion and maintenance, psychosocial integrity, and physiological integrity when caring for diverse patients with complex needs. Clinical experiences are in a wide variety of health-care settings.

NUR 414 COMMUNITY AND PUBLIC HEALTH
Prerequisite MATH*208; NUR*303, NUR*362; NURCH*309
This course applies the nursing process to care of individuals, families, groups, communities, or populations with a strong focus on health promotion and disease prevention. In addition, public health nursing practice and United States public health organization/system will be addressed. Students will complete observation and a simulated clinical experience designed to familiarize them with nursing roles and decision-making related to public health.

NUR 420 COMMUNITY AND GLOBAL HEALTH
Prerequisite NURCH*310, NURFH*410, NURFH*438, NURFH*440, NUR*460
This course engages students to extend the application of the nursing process to the community environment for clients, families, and aggregates, focusing on health promotion and disease prevention. Concepts of epidemiology, diverse and vulnerable populations, and health care systems are explored. International health challenges are examined to provide perspectives on global health. Students assess cultural, socioeconomic and political influences on both health and nursing practice.

NUR 425 TRENDS AND ISSUES IN GLOBAL HEALTH
Prerequisite NURCH*310, NURFH*410, NURFH*438, NURFH*440, NUR*460
The student will explore in-depth the impact of political, economical, social, ethical, and legal factors on the health care delivery systems, both in the United States and around the world, and interrelationships of these factors with professional nursing.

NUR 428 LEADERSHIP AND MANAGEMENT OF HEALTH ORGANIZATIONS
Prerequisite NURCH*310, NURFH*410, NURFH*438, NURFH*440, NUR*460
Students will explore various management, organizational, leadership and change theories, and discuss their application to the nursing care of patients and groups of patients. Examination of health care environments, with emphasis on safety and quality, interdisciplinary collaboration, and systems assessments will be incorporated.

NUR 430 ADVANCED SIMULATION
Prerequisite NURCH*310, NURFH*410, NURFH*438, NURFH*440, NUR*460
In this course students will enhance their skills in the treatment of complex medical-surgical patients through active participation in a series of simulated studies scenarios. These simulations are designed to reinforce important concepts and achieve certification in Advanced Cardiovascular Life Support (ACLS).

NUR 435 CAPSTONE PRECEPTORSHIP
Prerequisite NURCH*310, NURFH*410, NURFH*438, NURFH*440, NUR*460
The capstone clinical experience provides students with concentrated preceptor clinical opportunities in a variety of acute care settings, providing opportunities to refine development of nursing management of patients and groups of patients. Students synthesize knowledge from all previous courses to provide safe holistic care as they transition to the nursing profession.

NUR 438 MATERNAL NEWBORN HEALTH
Prerequisite NURFH*311, NURFH*312
This course provides evidence-based knowledge and skills essential to caring for women and families during the childbearing years. The experience of the healthy childbearing family, as well as the family with health alterations, is in the theoretical context of nursing process and practice. Emphasis is placed on physical, emotional, developmental, spiritual, ethical, legal, socio-economical-political and cultural care from the perspective of the individual and family, and local and global communities.
NUR 440 PEDIATRIC HEALTH 4
Prerequisite NURFH*311, NURFH*312
This course focuses on nursing care of infants, children, adolescents and families and is designed to provide the student with pediatric nursing knowledge and skills integral to the practice of professional nursing.

NUR 448 BIO-MEDICAL ISSUES FOR CHILDHOOD PROFESSIONALS 3
Prerequisite See EDEC 448 for course information.

NUR 460 THEORETICAL FOUNDATIONS IN HEALTH RESEARCH 3
Prerequisite NURFH*311, NURFH*312, MATH*208
The application of nursing research to substantiate nursing theory and practice is explored. Appreciation for nursing theory evolution is developed as key nursing theorists are compared and contrasted. Research foundations are introduced, with emphasis on interpretation and critique of nursing research.

Philosophy (PHIL)

PHIL 204 CONCEPT OF TRUTH 3
Prerequisite None
This course intensively examines the concept of truth as it has been manifested in major western philosophers from the ancient and medieval period, the classical modern period, and the contemporary period in the history of philosophy. Students will consider how the philosophical concepts of truth in their respective time periods served as underpinnings for the entirety of culture at the time, and how that sheds light on how contempor- orary considerations of truth hold sway. Meets Core credit for humanities.

PHIL 205 INTRODUCTION TO PHILOSOPHY 3
Prerequisite None
Examines formal and informal fallacies, symbolic translation, and nondeductive reasoning as they emerge from actual historical philosophical texts. Major themes will include fundamental questioning and the search for meaning and truth which have characterized philosophical thinking. Meets Core credit for math/logic.

PHIL 208 MAJOR THINKERS IN DIALOGUE 3
Prerequisite None
This course introduces students to the history of ideas through analyses of central and original texts of two great philosophers whose works form a dialogue, focusing not merely on the study of major works of philosophy, but also on the intellectual milieu in which those works are situated and the impact those works have had on a variety of other fields and on society in general. Students will come to know philosophical ideas and will strengthen their critical abilities in regard to basic concepts. Meets Core credit for humanities.

PHIL 210 PHILOSOPHY OF HUMAN NATURE 3
Prerequisite None
Many fields of inquiry traffic in a conception of some fixed essence of humanity, in which we all share. The idea of there being a human nature serves as a kind of Archimedean point from which we can learn to judge whether particular virtues possessed by this or that society represent the best life for us, given that essential human nature. What makes this a philosophical issue is precisely that there is disagreement among philosophers as to whether or not there is such a constant, and what the possessions of such a notion entails. Meets Core credit for humanities.

PHIL 215 ETHICS 3
Prerequisite None
This course is a substantive study of major classical figures in western moral philosophy, including Plato, Aristotle, Aquinas, Kant, Mill, and Nietzsche. It deals with the questions: What are the fundamental rules that guide our actions? Can we ever rationally justify moral judgments? What is the relationship between ethics and religion? While this course emphasizes the philosophers' views are explicated with regard to contemporary issues. Meets Core credit for humanities.

PHIL 217 THOUGHT AND BELIEF 3
Prerequisite None
The course probes specific areas where Western philosophy and the Christian tradition interrelate focusing on various religious topics that have philosophical implications, such as the nature of faith, salvation, the character of God, the problem of evil, and the practice of faith. Meets Core credit for religion.

PHIL 220 PRACTICAL THINKING 3
Prerequisite None
Examines formal and informal fallacies, symbolic translation, and deductive and nondeductive reasoning as they emerge in everyday practical contexts. The student will learn the basics of argument, master the notions of validity and soundness, and perform some real world proofs to enable him to defend against the persuasive tools used against him daily. Meets Core credit for math/logic.

PHIL 280 APPLIED ETHICS 1-3
Prerequisite None
Five-, ten-, or fifteen-week sections which investigate moral philosophy as it manifests itself in practical contexts. The focus is on how to arrive at the best moral reasons for acting within practical parameters which present their own special tasks, vocabularies, and sets of problems. A maximum of three hours may be taken for Core humanities credit.

A – SPORTS AND ETHICS 1-3
This course is an examination of ethical theory and moral deliberation as applied to the context of sports, specifically youth sports, college athletics, and professional sports.

B – ENVIRONMENTAL ETHICS 1-3
This course is an examination of ethical theory and moral issues as applied to the context of environmentalism. Does nature have inherent worth independent of the uses to which it is put by human beings: Do humans have moral duties to animals, plants, or even ecosystems? These and other questions will be critically examined.

D – BIOETHICS 1-3
This course is comprised of three —separable one-credit courses regarding medical ethics. Part I has to do with moral foundations in medicine concerning paternalism, informed consent, and professional responsibilities. Part II deals with medical resource allocation, analysis of social policy from various ethical perspectives, and issues surrounding physician-assisted suicide. Part III focuses on research on humans and various issues in reproductive ethics.

H – APPLIED ETHICS: WORKPLACE ETHICS 1-3
This course is an examination of ethical theory and moral issues with particular attention to specific workplace contexts. Includes issues such as the moral foundations of business involving at-will termination policies, workplace speech-codes, privacy issues concerning drug and genetic pre-screening, sexual harassment policies, workplace safety, whistle blowing, intellectual property, bribery, advertising, and moral obligations businesses have to family, community, and the environment.
PHIL 309 SOCIAL AND POLITICAL PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
This course is the philosophical study of people in societies with particular attention to the abstract claims they have on each other in the form of individual rights, duties, and privileges, and their demands for equality, justice, and freedom. The course addresses the overlap between political and moral duties and obligations, how moral themes are translated into political rights, and how social categories of concern often conflict with their political articulation. Offered fall of even years. Meets Core credit for humanities. May be repeated for credit as topics change.

PHIL 311 HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
An historical overview of the Greek, Roman and medieval philosophers, with special emphasis upon Plato, Aristotle, Augustine and Aquinas. Offered on a two-year cycle.

PHIL 312 HISTORY OF MODERN PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
A study of influential Western philosophers from the Renaissance and the Enlightenment including Descartes, Hume, and Kant. Issues raised include empiricism and rationalism, human freedom, the nature and existence of God, skepticism, conceptual meaning, and the philosophy of mind. Offered on a two-year cycle.

PHIL 313 HISTORY OF CONTEMPORARY PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
A study of recent Western philosophy, including but not limited to, phenomenology, existentialism, pragmatism, analytic, and post-modern philosophy. Offered on a two-year cycle.

PHIL 314 HISTORY OF 19TH CENTURY PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
A study of major 19th century philosophical movements and figures, roughly covering the time period between Kant and Husserl, including Hegel and German idealism, historicism, Kierkegaard, Nietzsche, Schopenhauer, Marx, and neo-Kantianism. Offered on a two-year cycle.

PHIL 317 PHILOSOPHY OF RELIGION 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
Philosophy of religion is the critical examination of basic religious beliefs and concepts. Its focus is to philosophically consider the claims that people make about religion, e.g., about the nature of God, and assess the conceptual grounds upon which these claims stand. The course evaluates the facts and theories available for and against certain religious claims, facts and theories that are available to any rational person, whether religious or not. The usual topic for this course will be making sense of the concept of God. Other topics may be offered on occasion. Offered spring of even years. Meets Core credit for humanities.

PHIL 318 TOPICS IN PHILOSOPHY 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
Focuses on unique, particular issues and their accompanying sets of arguments that have formed their own research categories in philosophy, such as the mind-body problem, the problem of evil, freedom vs. determinism, the issue of reference in the philosophy of language, the problem of universals, the problem of contextualism, or the problem of induction in the philosophy of science. The focus is on the arguments rather than on great books or individuals of historical significance. May be repeated for credit as topics change. Meets Core credit for humanities.

PHIL 320 SYMBOLIC LOGIC 3
Prerequisite PHIL*220 recommended
This course is a more advanced offering of techniques in logical analysis. Students will focus on constructing deductive arguments, engage in symbolic translation, recognize formal argument forms, do truth-table analysis, conduct proofs, and employ sentential and quantificational logics. Meets Core credit for math/logic.

PHIL 330 PHILOSOPHICAL READINGS 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
Philosophical readings courses are to be thought of as a series of great works which when taken together form a sustained whole. The course will conduct its inquiry in complete works which cross time periods and traditions within philosophy. Offered every three semesters. Meets Core credit for humanities. May be repeated for credit as topics change.

PHIL 350 SCIENCE AS A CULTURAL FORCE 3
Prerequisite See CHEM 350 for course information.

PHIL 450 GREAT PHILOSOPHERS 3
Prerequisite PHIL*204, 205, 208, 210, 215, or 217
This course evaluates the thinking of a single major theoretical figure across a series of original texts addressing different subjects, but usually including combinations of that thinker's views on metaphysics, epistemology, ethics, and aesthetics. The course shows how thinker's views often form an organic whole unified across texts and time periods in their lives, and how ideas develop from earlier to later views, or in response to personal or world events. Offered every three semesters. Meets Core credit for humanities. May be repeated for credit as topics change.

Physics (PHYS)

PHYS 107 THE HIDDEN LIFE OF THE STARS 3
Prerequisite High school geometry and trigonometry
Stars have a rich history in the development of our understanding of nature. Stellar life cycles will be used to illustrate concepts in modern astronomy. The history of understanding the stars will lead from Copernicus and Galileo to modern ideas in particle physics and relativity. Basic concepts from astronomy will be developed in an algebraic framework and applied to understanding the life cycle of a star, including birth, main cycle, and death. There will be evening observation field trips. Meets Core credit for natural sciences.

PHYS 201-202 GENERAL PHYSICS 4-4
Prerequisite High school algebra and geometry; PHYS*201 for 202
This course presents to liberal arts and pre-professional students the basic concepts, unifying principles and cultural aspects of the whole field of physics. Three lectures-recitations and one two-hour laboratory per week.
PHYS 205-206 UNIVERSITY PHYSICS 5-5
Prerequisite MATH*206; PHYS*205 for 206
This is a thorough course designed to impart a working knowledge of the fundamental principles, practical applications and techniques of general physics to physics majors, pre-engineering students and others specializing in the physical sciences. Four lecture-recitations and one two-hour laboratory per week.

PHYS 297 INTRODUCTION TO LABORATORY AND FIELD RESEARCH
Prerequisite Sophomore or junior standing
This course will introduce the student to scientific research in the laboratory or field through individual instruction under the direction of a Physics faculty member. Graded S/U. Offered each semester.

PHYS 301-302 ELECTRICITY AND MAGNETISM I - II 3-3
Prerequisite MATH*305, PHYS*206, PHYS*301 for 302
This is an intermediate electricity and magnetism course mainly for students majoring in physics or for pre-engineering students. It is a further study of electric and magnetic forces, fields, potentials and energies, along with electric currents and Maxwell equations. Three lecture-recitations per week.

PHYS 303-304 MECHANICS I - II 3
Prerequisite MATH*305, PHYS*206, PHYS*303 for 304
This intermediate mechanics course is a further study of Newtonian mechanics, such as harmonic motions, 3-dimensional motion, noninertial reference systems, central forces, dynamics of a system of particles and motions of rigid bodies Lagrangian mechanics is included. Three lecture-recitations per week.

PHYS 305 MODERN PHYSICS 4
Prerequisite PHYS*206 and MATH*305
The nature and properties of the electron, thermionic and photoelectric emission of electrons atomic, and molecular spectra, relativity, quantum mechanics, X-rays, natural and induced radio-activity, nuclear physics, cosmic rays, etc. Four lecture-recitations per week.

PHYS 306 HEAT 3
Prerequisite PHYS*206 and MATH*206
Temperature and thermal expansion; nature, quantity and transfer of heat, change of state, laws and equations of thermodynamics, heat engines, refrigeration and air conditioning, liquefaction of gases and cryogenics, measurement of low and high temperatures, kinetic theory of gases. Three lecture-recitations per week.

PHYS 320 ORIGINS OF THE UNIVERSE 3
Prerequisite High school algebra and trigonometry
A look from the scientific view point into the origin of the universe. The course takes a conceptual approach in understanding the two great physical theories of the twentieth century, Relativity and Quantum Mechanics, followed by applications in particle physics and cosmology. No previous science knowledge is assumed or required. Meets Core credit for natural sciences.

PHYS 350 SCIENCE AS A CULTURAL FORCE 3
Prerequisite See CHEM 350 for course information.

PHYS 402 OPTICS 3
Prerequisite PHYS*206 and MATH*206
Nature, propagation and intensity of light, sources of light; formation of images, description and use of optical instruments, dispersion, spectra, color theory, interference and diffraction, polarization, and other properties and effects of light. Three lecture-recitations per week.

PHYS 403 QUANTUM MECHANICS 3
Prerequisite PHYS*305, MATH*313
This course is an introduction to the formal theory of quantum mechanics. The stress throughout is on the formulation of quantum mechanics and not on its application. It is a concise, axiomatic development of the theory with a view to bring out the main features of its mathematical and conceptual structure. Three lecture-recitations per week.

PHYS 404 SOLID STATE PHYSICS 3
Prerequisite PHYS*305, MATH*313
This is an introductory course to solid state physics. Free electron model, Lattice structure, energy bands, semiconductors, and magnetic properties of solids are discussed. Three lecture-recitations per week.

PHYS 410 TOPICS IN THEORETICAL PHYSICS 3
Prerequisite PHYS*301, 303; MATH*313
An advanced course in current topics and/or advanced theories of modern physics, taught at the advanced undergraduate or beginning graduate level. Application of Hamiltonian mechanics, Maxwell's equations, and quantum mechanics will be emphasized throughout the course. Possible topics of study include general relativity, nuclear physics, particle physics, solid state physics, and string theory. May be repeated for credit as topics change.

PHYS 493 INTERNSHIP 1-4
Prerequisite See CHEM 493 for course description

PHYS 497 LABORATORY AND FIELD RESEARCH 1-3
Prerequisite Sophomore status
Laboratory research performed under faculty supervision. This course allows undergraduate students the opportunity to become involved in original research projects directed by Chemistry/Geology/Physics faculty members. Repeatable up to 8 credits.

Political Science (POLSC)

POLSC 101 UNDERSTANDING POLITICS 3
Prerequisite None
This course immerses students in the intensive study of the fundamental question: What is politics? Our goal is to understand how politics shapes society and what distinguishes the political from the economic social, artistic, religious, etc. We will read several fundamental works of political thought and statesmanship which may include the Bible, Plato's Apology, Aristotle's Politics, Machiavelli's The Prince, Shakespeare's Julius Caesar or Henry V, Locke's Two treatises of Government, Rousseau's Social Contract, Penn Warren's All the King's Men, or Churchill's The Gathering Storm. Meets Core credit for social sciences.

POLSC 102 DEMOCRACY IN AMERICA 3
Prerequisite None
An introduction to American politics, with primary emphasis on national institutions. Course topics include the political theory of the American Constitution, the relations among the different branches of government and between state and federal institutions, and the role of the courts in the protection of civil liberties.

219
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POLSC 201</td>
<td>TOPICS IN CLASSICAL CIVILIZATION</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite</strong> None</td>
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<td></td>
<td>This course will cover key topics in Greek and Roman</td>
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<td></td>
<td>antiquity. Topics may include imperialism in ancient</td>
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<td>Greece and Rome, sport and spectacle, family,</td>
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<td>slavery in the Greco-Roman world, women in the ancient</td>
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<td>world, or authors such as Plutarch, Cicero, or Seneca.</td>
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<td>Repeatable as topics change.</td>
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<tr>
<td>POLSC 205</td>
<td>COMPARATIVE POLITICS</td>
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<td><strong>Prerequisite</strong> None</td>
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<td>This course immerses students in the comparative</td>
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<td>study of regimes such as liberal democracy, monarchy,</td>
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<td>tyranny, and theocracy, especially as these are</td>
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<td>found in historical or contemporary city-states,</td>
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<td>nations, or empires. Such study can be comparative</td>
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<td>either because two or more different regimes are</td>
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<td>being examined together (e.g., aristocracy and</td>
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<td>democracy) or because the same regime is being</td>
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<td>investigated from different perspectives (e.g.,</td>
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<td>liberal democracy in Germany and France) or with</td>
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<td>different means (e.g., tyranny is studied using</td>
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<td>contemporary and historical information, literature,</td>
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<td>political biography, geography, religious traditions,</td>
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<td>political theory, etc.). In every case, at least</td>
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<td>two different countries will be studied. Meets Core</td>
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<td>credit for GPS-Border Crossings.</td>
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<tr>
<td>POLSC 231</td>
<td>INTERNATIONAL RELATIONS</td>
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<td><strong>Prerequisite</strong> None</td>
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<td>This course will immerse students in the study of</td>
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<td>international relations, especially how and why</td>
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<td>countries fight wars and make and maintain peace.</td>
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<td>Drawing on both historical and contemporary</td>
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<td>examples, the course may examine both the writings</td>
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<td>of theorists and the speeches and deeds of leading</td>
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<td>statesmen.</td>
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<td>POLSC 236</td>
<td>AMERICAN FOREIGN POLICY</td>
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<td><strong>Prerequisite</strong> None</td>
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<td></td>
<td>A study of the foreign relations of the United States,</td>
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<td>underscoring the factors that determine</td>
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<td>formulation, execution and substance of U.S. foreign</td>
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<td>policy, traditional and contemporary, with emphasis</td>
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<td>on the place of the United States in today's world.</td>
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<td>HIST 236/POLSC 236 credit.</td>
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<tr>
<td>POLSC 305</td>
<td>POLITICAL PARTIES AND INTEREST GROUPS</td>
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<td><strong>Prerequisite</strong> None</td>
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<td></td>
<td>A study of the origins, development and</td>
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<td>contemporary character and problems of American</td>
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<td>political parties and the party system, and an</td>
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<td>examination of the role of interest groups in the</td>
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<td>political process.</td>
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<td>POLSC 310</td>
<td>THE PRESIDENCY</td>
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<td><strong>Prerequisite</strong> None</td>
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<td></td>
<td>A study of the nation's Chief Executive Office.</td>
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<td>POLSC 312</td>
<td>CONGRESS</td>
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<td><strong>Prerequisite</strong> None</td>
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<td></td>
<td>A study of the nation's legislative body, focusing on</td>
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<td>the nature of representation in Congress, the place</td>
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<td>of Congress within the framers' constitutional</td>
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<td>design, the historical development of the institution</td>
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<td>and its powers, and the operation of the modern</td>
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<td>Congress.</td>
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<td>POLSC 320</td>
<td>AMERICAN POLITICAL THOUGHT I: REVOLUTION TO THE CIVIL</td>
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<td>WAR</td>
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<td><strong>Prerequisite</strong> None</td>
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<td>A study of the political ideas of American statesmen</td>
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<td>and writers from the 18th century to the secession</td>
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<td>crisis. Candidates for consideration include</td>
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<td>Jefferson, Franklin, Adams, Madison, Hamilton, and</td>
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<td>Calhoun.</td>
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<td>POLSC 321</td>
<td>AMERICAN POLITICAL THOUGHT II: RECONSTRUCTION TO THE</td>
<td>3</td>
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<td>PRESENT</td>
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<td><strong>Prerequisite</strong> None</td>
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<td>A study of the political ideas of American</td>
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<td>statesmen and writers from the Civil War period to</td>
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<td>the present. Candidates for consideration include</td>
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<td>Lincoln, Frederick Douglass, Twain, Melville, Booker</td>
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<td>POLSC 336</td>
<td>CONSTITUTIONAL POWERS</td>
<td>3</td>
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<td></td>
<td><strong>Prerequisite</strong> POLSC*102</td>
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<tr>
<td></td>
<td>A study of the American constitutional framework for</td>
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<td></td>
<td>the exercise of governmental power, with particular</td>
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<td></td>
<td>emphasis on the role of the Supreme Court in</td>
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<td></td>
<td>articulating that framework. Through reading Court</td>
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<td></td>
<td>cases and other materials, students address such</td>
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<td></td>
<td>questions as: how should the Constitution be</td>
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<td></td>
<td>interpreted? what are the respective powers of the</td>
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<td></td>
<td>Courts, the Congress and the President? What limits</td>
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<td>on those powers does the Constitution impose? What</td>
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<td>is the proper constitutional relationship between the</td>
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<td></td>
<td>state and the federal government?</td>
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<tr>
<td>POLSC 337</td>
<td>CONSTITUTIONAL RIGHTS</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> POLSC*102</td>
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<tr>
<td></td>
<td>A study of individual rights protected by the U.S.</td>
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<td>Constitution, as viewed through Supreme Court cases</td>
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<td></td>
<td>and other materials. The primary focus will be on</td>
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<td></td>
<td>the First Amendment rights of freedom of speech and</td>
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<td>press and of religious liberty, the 14th Amendment's</td>
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<td>guarantee to each person of the equal protection of</td>
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<td>the laws, rights of political participation and</td>
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<td></td>
<td>constitutional protections of property and privacy.</td>
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<tr>
<td>POLSC 341</td>
<td>MODERN MIDDLE EAST</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> See HIST 341 for course description</td>
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<tr>
<td>POLSC 343</td>
<td>WESTERN POLITICAL THOUGHT I: ANCIENT POLITICAL</td>
<td>3</td>
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<td></td>
<td>THOUGHT</td>
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<td></td>
<td><strong>Prerequisite</strong> POLSC*101</td>
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<tr>
<td></td>
<td>This course immerses students in the study of</td>
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<td>ancient political thought, whose central concern is</td>
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<td>the search for the best regime-the one that most</td>
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<td>cultivates human excellence. We will examine this</td>
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<td>politics of virtue by reading several great works of</td>
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<td>political philosophy from thinkers such as Plato and</td>
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<td></td>
<td>Aristotle.</td>
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<td>POLSC 344</td>
<td>WESTERN POLITICAL THOUGHT II: MEDIEVAL POLITICAL</td>
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<td>THOUGHT</td>
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<td></td>
<td><strong>Prerequisite</strong> POLSC*101</td>
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<td></td>
<td>This course is an intensive study of major texts in</td>
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<td>medieval political thought. Particular attention will</td>
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<td></td>
<td>be given to the issue of how medieval thinkers from</td>
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<td></td>
<td>a variety of backgrounds attempted to deal with the</td>
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<td>relationship between reason and revelation in politics.</td>
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<td>Thinkers to be studied may include Augustine,</td>
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<td>Aquinas, Dante, Marsilius of Padua, Maimonides,</td>
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<td>Alfarabi, Averroes, or Avicenna.</td>
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<td>POLSC 345</td>
<td>WESTERN POLITICAL THOUGHT III: EARLY MODERN POLITICAL</td>
<td>3</td>
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<td></td>
<td>THOUGHT</td>
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<td></td>
<td><strong>Prerequisite</strong> POLSC*101</td>
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<tr>
<td></td>
<td>This course is designed to immerse students in the</td>
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<td>study of modern political, thought those central</td>
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<td>concerns are human security, comfort, and liberty.</td>
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<td>We will examine this new politics of freedom by</td>
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<td></td>
<td>reading several great works of political philosophy</td>
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<td></td>
<td>from thinkers such as Machiavelli, Hobbes, and Locke.</td>
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<td></td>
<td>Meets Core credit for social sciences.</td>
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</tbody>
</table>
POLSC 346  WESTERN POLITICAL THOUGHT  3
IV: LATE MODERN POLITICAL THOUGHT

Prerequisite  POLSC*101
A study of selected works of leading political thinkers from the end of the
18th century to the present, such as Kant, Hegel, Mill, Marx, Nietzsche, Strauss and Rawls.

POLSC 351  POLITICS AND RELIGION  3

Prerequisite  POLSC*101
This course is an intensive study of important thinkers, texts, or issues
focusing on the proper relation between political authority and religious
authority, law, or faith. Topics may include Christianity and politics, the
rise of the political principle of religious toleration in the West, Islamic
political thought, or the contemporary relation between religion and liberal
democracy.

POLSC 352  THE AMERICAN FOUNDING  3

Prerequisite  None
A seminar on the principles and practices of America's founding
statesmen. We examine how the founders formulated and reconciled ideas
(natural rights, separation of powers, federalism) with interests (economic,
political, regional, etc.). HIST 352/POLSC 352 credit.

POLSC 355  INTERNATIONAL ORGANIZATION  3

Prerequisite  None
A study of historical movements toward world cooperation, including an
evaluation of the League of Nations and a study of the United Nations as
well as regional organizations established since World War II.

POLSC 360  REGIONAL STUDIES  3

Prerequisite  None
A study of political systems of different countries or regions selected on a
rotating basis, including such geographic areas or nations as Western
Europe, Asia, Latin America, the Soviet Union and Japan. May be
repeated for credit for different topical or areas studies.

POLSC 370  TOPICS IN AMERICAN POLITICS  3

Prerequisite  None
Intensive study of a topic in the field of American government and
politics. May be repeated for credit as topics change.

POLSC 375  LINCOLN  3

Prerequisite  See HIST 375 for course description

POLSC 380  TOPICS IN POLITICAL THOUGHT  3

Prerequisite  None
Intensive study of some theme or thinkers in the field of political thought.
May be repeated for credit as topics change.

POLSC 381  CHURCHILL  3

Prerequisite  None
A seminar that considers the political thought and actions of Winston S.
Churchill. Readings include a number of his speeches, essays and books;
e.g. My Early Life, Savrola and The Gathering Storm. HIST 381/POLSC
381 credit.

POLSC 385  SHAKESPEARE'S POLITICS  3

Prerequisite  None
An examination of those plays of Shakespeare that shed particular light on
essential political issues, such as tyranny, legitimacy, and statesmanship.

POLSC 390  TOPICS IN COMPARATIVE AND INTERNATIONAL POLITICS  3

Prerequisite  None
Intensive study of a topic in the fields of comparative and international
politics. May be repeated for credit as topics change.

A – MODERN REVOLUTIONS
A comparative examination of the three most influential revolutions of the
modern world: American, French and Soviet.

POLSC 430  INTERNSHIP IN GOVERNMENT AND POLITICS  3-12

Prerequisite  Junior status and major or minor in political science or international political studies
To provide for on-the-job experiences for students of government and
politics on an individual basis in selected offices or installations at the
local state, or federal level. Each internship is arranged by the student's
advisor with a specific official for a designated purpose, comporting with
the student's interest and capabilities. Internships may be for either three
or six hours in a local office, nine hours for a summer program; or 12
hours for an off-campus semester.

POLSC 431  HUMAN BEING AND CITIZEN  3

Prerequisite  Senior status
An attempt to understand the great issues animating politics-freedom,
justice, equality, ethnicity-from the point of view of other disciple- lines
and perspectives. The seminar will examine what it means to be a citizen,
something of what it means to be a human being, and how each depends
upon the other. Meets Core credit for social sciences.

POLSC 497  THESIS SEMINAR  3

Prerequisite  Senior status and departmental major or minor
The course is designed for a major or minor in the Department who is
researching and writing a senior thesis. It is a guided, intensive study of
some topic of interest to the student, which results in a substantial
scholarly paper. The student may not have acquired or be in the process of
acquiring more than 3 hours of academic credit for work connected to the
project to be undertaken in HIST/POLSC 497 (for example, through
Independent Study).

Portuguese (PORT)

PORT 141  ELEMENTARY PORTUGUESE I  3

Prerequisite  None
An introduction to Portuguese language and culture with practice in the
basic skills of the language. There will be a one-hour per week required
laboratory. Taught in Portuguese. Offered infrequently.

PORT 142  ELEMENTARY PORTUGUESE II  3

Prerequisite  PORT*141
A continuation of PORT 141 Elementary Portuguese I. Taught in
Portuguese. Offered infrequently.

PORT 241  INTERMEDIATE PORTUGUESE I  3

Prerequisite  PORT*142
A course designed to increase the student's understanding of the language
by building on the skills learned in the elementary course. There will be a
one-hour per week required laboratory. Taught in Portuguese. Offered
infrequently.

PORT 242  INTERMEDIATE PORTUGUESE II  3

Prerequisite  PORT*241
A continuation of PORT 241. One-hour per week lab. Taught in
Portuguese. Offered infrequently. Completion fulfills GPS requirement.
Meets Core credit for GPS-Border Crossings.
**Introduction**

This course centers around the question, How do we explain human behavior? Inquiries are framed in the context of the major theoretical perspectives emergent from the sociohistorical evolution of psychology as a field of study. Behavior topics are examined by comparing and contrasting the assumptions, research methods, and conclusions embedded within the biological, psychoanalytical, behavioral, humanistic, cognitive, and sociocultural theories. Psychological inquiries also include evaluation of how these diverse approaches converge on questions about multiple influences on human behavior. Meets Core credit for social sciences.

**PSYC 102 GENERAL PSYCHOLOGY II**

This course continues with an emphasis on the scientific method as it pertains to selected psychological topics and issues. Meets Core credit for social sciences.

**PSYC 104 PSYCHOLOGY OF ADJUSTMENT**

A detailed study of principles underlying a mentally healthy life style and its relationship to a meaningful life existence. Special attention is given to methods of preventing personal maladjustments and remedial treatment for adjustment disorders.

**PSYC 209 DEVELOPMENTAL PSYCHOLOGY**

The investigation of the physical, cognitive, and psychosocial changes that occur in the individual. Emphasis is placed on the genetic and environmental origins of behavior impacting development from birth to adolescence as well as the manifestations of these dynamic processes across the life span.

**PSYC 210 RESEARCH METHODS IN PSYCHOLOGY**

This course provides an introduction to psychological research techniques and methodology. Basic principles and procedures in the design, analysis, and write-up of research are provided. Students learn to select appropriate research topics, plan data collection and analysis, examine potential threats to internal and external validity, and ways to statistically analyze the data. In addition to lectures and readings, students will actively participate in the design of a semester-long project making sure it conforms to ethical standards in the field. The student will then write a research proposal using the most current A.P.A. style.

**PSYC 218 PSYCHOLOGY OF ADOLESCENCE**

This course explores the nature of adolescent behavior. The physical, cognitive, and psycho-social development of adolescents are examined in the contexts of peers, family, schools, work, and culture/society, using the theoretical perspectives that will allow the adolescent to function effectively in adulthood. Meets Core credit for social sciences.

**PSYC 224 PSYCHOLOGY OF AGING**

The focus of this course is the study of the later years of the lifespan (i.e., the stage of Integrity vs. Despair as identified by Erik Erikson). Topics will include theories of aging, research methods, cognitive processes and intellect in late life, self and personality development, mental health, and clinical assessment.

**PSYC 240 SENSATION AND PERCEPTION**

An introductory study into how the sense modalities (sensation) provide the necessary information for the mind to analyze and interpret this information (perception) to create a mental world. Laboratory experiences will emphasize vision and audition.

**PSYC 241 CROSS-CULTURAL PSYCHOLOGY**

This course offers a broad introduction to the research and theoretical foundations of cross-cultural psychology. The impact of culture on processes mediating psychosocial development, and behavioral patterns will be stressed. Meets Core credit for GPS-Border Crossings.

**PSYC 264 CHILD DEVELOPMENT**

A study of the factors involved in the physical, language, cognitive, social, emotional, and aesthetic development of all children, both typical and atypical from birth through age 8. The young child is studied within the contexts of family, culture, and society. Two class hours and one laboratory hour a week.

**PSYC 280 SPORT PSYCHOLOGY**

This course is an introduction to the field of sport psychology, a subspecialty of psychology that is considered with identifying and understanding psychological factors that can be applied to sport in order to enhance athletic performance and personal growth. Students will be introduced to major theories of sport psychology, including strengths and critiques of those theories. Major themes of the course include the study of factors influencing motivation, ways to manage competitive stress, improving concentration, effectively using visualization, coping with failure, the importance of pre-performance routines, and building and maintaining confidence.

**PSYC 297 DIRECTED RESEARCH**

Students will work under the close supervision of a faculty mentor to implement faculty-designed research protocols, manage data from those protocols, and/or assist with the dissemination of results of such work. May be repeated for up to a total of 6 hours. (Note: Although 18 hours of Directed Research [PSYC 297/397/497] may be taken, only 3 hours may count toward a psychology major or minor).

**PSYC 299 SPECIAL TOPICS**

A course for students with a particular interest in the special topic being discussed that semester. Topics selected are not typically covered in the regular scheduled psychology courses. The focus will be on reading assignments class discussions, and the sharing of ideas rather than formal lectures. May be repeated for different topics.

**PSYC 305 SOCIAL PSYCHOLOGY**

The psychological study of the individual in relation to social groups, social forces, and social problems. PSYC/SOC credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 306</td>
<td>CONSUMER BEHAVIOR</td>
<td>3</td>
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<tr>
<td>Prerequisite: PSYC*101</td>
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<td></td>
<td>An analysis of the basic concepts and principles of consumer behavior. Emphasis will be placed on the cognitive, behavioral and social influences as they relate to consumer attitudes, perceptions and purchases. The course explores the consumer decision process and marketing efforts to influence and shape that process. PSYC 306/MKT 326 credit.</td>
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<tr>
<td>PSYC 307</td>
<td>PERSONALITY</td>
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<td>Prerequisite: PSYC*101</td>
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<td></td>
<td>A detailed investigation of the psychodynamic, behavioristic, humanistic, and dispositional perspectives as related to the four basic issues of each (i.e. theory, research, assessment, and therapy).</td>
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<td>PSYC 308</td>
<td>CHILD AND ADOLESCENT PSYCHOPATHOLOGY</td>
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<td>Prerequisite: PSYC*101</td>
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<td>This course is designed to provide students with an empirical and theoretical basis for the study of behavior disorders in children from birth to 18 years of age. Students will learn to use the DSM-IV as the basis for classification/diagnosis. Research regarding etiology and treatment methods will also be a major focus.</td>
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<tr>
<td>PSYC 310</td>
<td>ADVANCED RESEARCH IN PSYCHOLOGY</td>
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<tr>
<td>Prerequisite: PSYC<em>210, MATH</em>208</td>
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<td></td>
<td>Continues PSYC 210. This course will further a student's knowledge and experiences in the area of empirical psychology. In addition to critically evaluating current literature, students will be required to design, conduct, analyze, and report the results of a semester-long project. Practical and ethical considerations of actually conducting a research project will be emphasized.</td>
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<tr>
<td>PSYC 320</td>
<td>COGNITIVE PSYCHOLOGY</td>
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<td>Prerequisite: PSYC*101</td>
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<td></td>
<td>The psychological study of the processes humans use to transform, store, manipulate, and retrieve information. Topics include perception and attention, knowledge recognition, pattern recognition, memory, problem solving, and language processing.</td>
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<td>PSYC 324</td>
<td>THEORIES AND PRINCIPLES OF LEARNING</td>
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<td>Prerequisite: PSYC*101</td>
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<td>An introduction to and evaluation of the main psychological theories of learning as they apply to both human and animal behavior. Special attention will be given to the applications of those areas of theory and research which deal with factors which are known to influence the learning process.</td>
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<tr>
<td>PSYC 330</td>
<td>HEALTH PSYCHOLOGY</td>
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<td>Prerequisite: PSYC*101</td>
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<td>This course is an introduction to the field of health psychology, a subspecialty of psychology that concerned with how people stay healthy, how and why they become ill, and how they behave when ill. The discipline of health psychology approaches those questions using elements of psychobiology, personality psychology, social psychology, and clinical psychology. Students will be introduced to major theories of health psychology, including strengths and critiques of these theories. Major themes of the class include the study of factors influencing the practice of health behaviors, the relationship between stress and physical function, and the impact of and management of chronic illness.</td>
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<tr>
<td>PSYC 393/493</td>
<td>ELECTIVE INTERNSHIP</td>
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<td>Prerequisite: None</td>
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<td>Provides psychology majors experiential learning within various social service agencies and work settings related to the student's career interests under the supervision of an onsite coordinator. This offering may be repeated up to a total of 6 credit hours with permission of the student's advisor and the department chair. These credits cannot be used as substitutes for the required psychology course credits as identified in the catalog.</td>
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<td>PSYC 397</td>
<td>DIRECTED RESEARCH</td>
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<td>Prerequisite: Permission</td>
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<td>Students will work under the close supervision of a faculty mentor to implement faculty-designed research protocols, manage data from those protocols, and/or assist with the dissemination of results of such work. May be repeated for up to a total of 6 hours. (Note: Although 18 hours of Directed Research [PSYC 297/397/497] may be taken, only 3 hours may count toward a psychology major or minor).</td>
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<tr>
<td>PSYC 401</td>
<td>PSYCHOLOGICAL TESTS AND MEASUREMENTS</td>
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<td>Prerequisite: PSYC*101</td>
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<td></td>
<td>An introductory course in basic measurement concepts and procedures. Evaluation and use of standardized tests, including individual and group testing of achievement, intelligence, aptitude and personality. Elementary statistic concepts related to testing and measurement are covered.</td>
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<tr>
<td>PSYC 412</td>
<td>PHYSIOLOGICAL PSYCHOLOGY</td>
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<td>Prerequisite: PSYC*101; 3 hrs. of biology recommended</td>
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<td></td>
<td>A study of the anatomical, physiological and biochemical aspects of learning and memory, cognitive processes, motivational systems and basic sensory and motor functions.</td>
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<td>PSYC 414</td>
<td>NEUROPSYCHOLOGY</td>
<td>3</td>
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<tr>
<td>Prerequisite: PSYC*101; at least junior status; 3 hrs. biology recommended</td>
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<td>A thorough study of the history, assessment, and classifications of abnormal behaviors. The DSM IV is used as the basis for the classification and diagnosis of all mental and emotional disorders.</td>
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</table>
This course is an overview of classic and contemporary theory and research on the psychology of intimate relationships, focusing primarily on romantic relationships. This course approaches the topic of close relationships from a psychological viewpoint, such as the examination of individual psychological processes, as well as the psychological underpinnings and scientific study of intimate relationships. As such, this course will cover theoretical perspectives, research methods, attraction, social cognition, interdependency, friendship, love, stressors in a relationship (e.g., infidelity, jealousy), relationship maintenance, conflict and conflict resolution, and dissolution. A review of the current literature (i.e., primary source articles) surrounding such topics will be an integral part of the course.

PSYC 495 SENIOR SEMINAR IN PSYCHOLOGY 3

Prerequisite: PSYC*210 & 6 hours in PSYC at 300 level or above

PSYC 495 is an advanced course in Psychology focusing on the current literature (i.e., psychological journal articles) in a selected topic. Students will develop their critical thinking and communication skills through reading, critiquing, and discussing research writing in a discussion-based seminar style setting.

PSYC 497 DIRECTED RESEARCH 0-3

Prerequisite: Permission

Students will work under the close supervision of a faculty mentor to implement faculty-designed research protocols, manage data from those protocols, and/or assist with the dissemination of results of such work. May be repeated for up to a total of 6 hours. (Note: Although 18 hours of Directed Research [PSYC 297/397/497] may be taken, only 3 hours may count toward a psychology major or minor).

Recreation (REC)

REC 240 FUNDAMENTALS OF THERAPEUTIC RECREATION 3

Prerequisite: None

Psychological, sociological, and historical significance of therapeutic recreation; the philosophy, theories, and practices of health and human service professionals; needs and implications of therapeutic recreation with persons with disabilities.

REC 330 TECHNIQUES IN THERAPEUTIC RECREATION 3

Prerequisite: REC*240

Ability to implement a variety of individual and group techniques, utilize a variety of assistive and adaptive devices and techniques, apply therapeutic recreation content and services, use instruction, supervision, and leadership techniques, and apply activity and task analysis in the delivery of services.

REC 341 PRINCIPLES OF THERAPEUTIC RECREATION 3

Prerequisite: REC*240

Introduction to the therapeutic recreation process to design comprehensive and individual treatment plans, considering the interrelationships of health and human service professionals and standards of practice using case studies.

REL 106 EXPLORING THE BIBLE 3

Prerequisite: None

An introductory study in which students gain an overview of the Bible, engage in literary analysis of Biblical texts and explore the Bible’s contemporary relevance. College-level writing skills are required. Meets Core credit for Religion.

REL 107 EXPLORING WORLD RELIGIONS 3

Prerequisite: None

An introductory exploration of historical developments, beliefs and practices in selected Eastern and Western world religious traditions. Since students will be introduced to methods for analyzing and interpreting sacred texts, college level writing skills are required. Meets Core credit for Religion and GPS-Border Crossings.

REL 109 EXPLORING CHRISTIAN ETHICS 3

Prerequisite: None

An introductory exploration of principles, movements and topics of Christian theological ethics. This course guides students through complex questions of moral reasoning and some of the Biblical, historical and theological resources used to address them. Topics may include immigration, homosexuality and same-sex marriage, forgiveness and reconciliation, justice, war, and abortion. College level writing skills are required. Meets Core credit for Religion.

REL 208 EXPLORING CHRISTIAN THEOLOGY 3

Prerequisite: None

An introduction to the central doctrines of the Christian faith that is both critically respectful of classic theological traditions and critically open to the new voices and emphases of recent theologies. Students will become familiar with systematic theological categories and develop interpretive skills through the careful reading, analysis and discussion of theological texts.

REL 210 THE GOSPELS 3

Prerequisite: None

Study of the life and teachings of Jesus as portrayed in the New Testament gospels. Gospels are examined and compared. Meets Core credit for religion.
REL 213 LIFE AND LETTERS OF PAUL 3
Prerequisite None
Examination of Saul/Paul through a careful study of the Book of Acts and the letters attributed to Paul, aided by useful secondary sources. Of interest are not only the social and theological concerns addressed by the apostle Paul but also the ways in which his teachings apply to the contemporary world.

REL 214 CHRISTIAN FORMATION 3
Prerequisite None
Investigates how Christians grow in faith, understanding and commitment, and considers how to encourage and nurture such growth. Explores the biblical, theological, historical and cultural foundations of Christian formation; identifies and analyzes specific practices and connections between Christian formation and other areas of the Christian life such as worship, service, and mission.

REL 220 TAKING HUMAN LIFE 3
Prerequisite None
Deals with the questions of whether it is permissible to take human life and if so, what the conditions might be that warrant or limit such behavior. Examines the issues of euthanasia, abortion, capital punishment, suicide and warfare from literary, philosophical, social, scientific, and religious perspectives, mainly from the Judeo- Christian viewpoint. Meets Core credit for humanities.

REL 230 HISTORY OF EARLY CHRISTIANITY 3
Prerequisite REL*106
Focuses upon selected literature and significant historical events in the development of Christianity from the 2nd to the 5th century. One central question will guide our inquiry: How did orthodox Christianity overcome various challenges to become the dominant religious tradition in the West? Meets Core credit for historical reasoning.

REL 231 HISTORY OF MEDIEVAL AND REFORMATION CHRISTIANITY 3
Prerequisite REL*106
Focuses on the history of Christianity from the 6th to the middle of the 17th century. Emphasis will be primarily on the social context within which medieval and Reformation Christianity developed, and secondarily on Christian thought during the period. Meets Core credit for historical reasoning.

REL 232 HISTORY OF MODERN CHRISTIANITY 3
Prerequisite REL*106
Focuses on the history of Christianity in Europe from the mid-17th century to the present. Emphasis will be primarily on the social context within which modern European Christianity developed, and secondarily on Christian thought during the period. Meets Core credit for historical reasoning.

REL 233 HISTORY OF RELIGIONS IN AMERICA 3
Prerequisite REL*106
Focuses on the history of religions in America from the mid-16th century to the present. Emphasis will be primarily on the social context within which American religions developed and secondarily on American religious thought during the period. Meets Core credit for historical reasoning.

REL 234 HISTORY OF CHRISTIAN WORSHIP 3
Prerequisite None
This course investigates the history of Christian worship from the New Testament church to the present day. The course will concentrate on the actual experience of worship for regular churchgoers and so will pay attention to material culture, art, music and architecture as well as the social, political, philosophical and theological contexts within which Christian worship developed.

REL 240 JEWISH RELIGIOUS TRADITIONS 3
Prerequisite Core religion course
This course deals with a question that is central to all Jewish religious traditions: how do written and oral traditions combine to create the fabric of contemporary Jewish life? This question will be explored through selected Rabbinic writings and methods of Jewish Biblical interpretation, as well as distinctive Jewish religious practices and observances within the major movements in contemporary Judaism. Meets Core credit for humanities.

REL 250 UNDERSTANDING ISLAM IN TODAY’S WORLD 3
Prerequisite None
An investigation of the basic beliefs and practices in Islam as they are understood and observed in various parts of the world. The course approaches Islam by focusing upon the ways that oral and written traditions combine with cultural factors to create the fabric of contemporary Islamic life. Topics include the foundations of Islam, the sources of legislation in Islam (Qur'an and Hadith), central ritual observances and social aspects of Islam in the contemporary world. Meets Core credit for humanities and GPS-Border Crossings.

REL 260 SHORT TERM MISSIONS 3
Prerequisite None
REL 260 explores the development, theology, and practice of international short-term, mission trips; introduces students to culture theory; and provides students with opportunities to develop skills in cross-cultural understanding and communication with particular cultures. Students will have opportunities to interview participants, organizers, and leaders in the STM field in person and/or through technology. Meets Core credit for GPS-Border Crossings or for GPS-Course with Study Away if paired with a qualifying short term mission.

REL 301 TOPICS IN RELIGION 3
Prerequisite None
An in-depth study of a particular topic in religion that is not covered in the regularly scheduled religion courses, for example, foundations for Biblical study in OT Hebrew and NT Greek, contemporary issues in political theology and selected theological themes. The course will feature frequent writing assignments and in-depth reading on the subject matter. May be repeated for credit as topics change.

REL 304 ADVANCED OLD TESTAMENT 3
Prerequisite REL*106
An in-depth study of the Hebrew Scriptures focusing on selected sections and themes. Students will conduct literary analyses of OT texts while also examining ways in which narratives of the Hebrew Bible are used to formulate Jewish and Christian theology and ethics.
REL 305  ADVANCED NEW TESTAMENT  3
Prerequisite  REL*106
An in-depth study focusing on the later literature of the New Testament (from Hebrews through Revelation). Students will conduct literary analyses of NT texts while also examining how these documents provide evidence for the early Jesus traditions and other developments in the early Christian communities.

REL 307  WORLD RELIGIOUS TRADITIONS: EAST AND WEST  3
Prerequisite  REL*106 or REL*107
An advanced inquiry into selected topics within Judaism, Islam, Hinduism and Buddhism. Special focus will be placed on primary texts (the Tanakh, the Qur’an, the Bhagavad Gita and selected Buddhist scriptures) as we examine the world views and ethical teachings that have developed in each tradition.

REL 308  POLITICAL THEOLOGY  3
Prerequisite  REL*106 REL*107 or REL*109
This course introduces students to several of the major, current topics within political theory--from liberalism's and democracy's champions and detractors, to the role of religious commitments in a pluralist society, to how the Bible is used and read differently in different political contexts, to questions of gender and post-colonialism. In addition, students will develop interpretive skills through the careful reading, analysis, and discussion of texts in contemporary political theology. Meets Core credit for humanities.

REL 311  YOUTH MINISTRY  3
Prerequisite  None
An examination of the characteristics of contemporary youth and youth culture including an analysis of the implications of these characteristics for the church. Emphasis is placed on the practical aspects of organizing, planning, and implementing church and para-church youth ministries.

REL 340  RELIGION AND THE CIVIL RIGHTS MOVEMENT IN AMERICA  3
Prerequisite  Permission of instructor when offered with a required service learning (SL) component
This course examines the involvement and non-involvement of churches and people of faith in the movement for civil rights in the United States. Contextualized in the History of America's racialized society, both African American and white religious responsibilities for, and responses to, social injustice are examined through the reading of autobiographies, primary documents, and secondary sources. Meets Core credit for humanities.

REL 341  WORLD CHRISTIANITY, CULTURE AND MISSION  3
Prerequisite  None
An exploration of post-colonial Christianity and Christianity outside the cultural west through the lenses of particular cultural contexts, culture theory, and the history, theology, and practice of Christian mission. Includes practicing skills for cultural proficiency and enabling students to become citizens aware of their global responsibilities. Meets GPS-Border Crossings credit.

REL 375  STUDY ABROAD: GEOGRAPHICAL AND HISTORICAL SETTINGS OF THE BIBLE  4
Prerequisite  REL*106, junior status
An intensive 3-week course offered in conjunction with Jerusalem University College. It features an integration of the academic study of Biblical history and geography with on-site field experiences in Israel and Jordan. Also included is the study of contemporary social and political issues in the Middle East.

REL 400  CHRISTIAN LITERATURE  3
Prerequisite  REL*106
This course is designed to acquaint the student with the rich heritage of Christian literature. Selected writings from the theological, devotional and general literary work of Christian writers are read and discussed.

REL 401  SEMINAR IN CHRISTIAN ETHICS  3
Prerequisite  REL*106 or REL*109
This is an advanced course in religious ethics focusing on primary source readings of Christian ethics in the 20th century from authors such as Niebuhr, Ramsey, Yoder, and Hauerwas, examining their methodologies, religious contexts, theological assumptions, and anthropological conclusions, and how these affect their treatment of particular issues.

REL 404  SEMINAR IN CHRISTIAN THEOLOGY  3
Prerequisite  REL*106 and REL*208
The careful reading and interpretation of primary source materials in Christian theology. The goals are familiarization with contemporary Christian theology and the acquisition or sharpening of research and writing skills for use in future graduate work, pastoral ministry, or independent study.

REL 450  SEMINARY COURSE IN BIBLICAL STUDIES  3
Prerequisite  3.0 GPA minimum, junior status; Religion Department Chair approval
An ATS topics course in Biblical studies which investigates sections or books of the Bible. May be repeated once for a different topic. See department chair for information.

REL 451  SEMINARY COURSE IN CHRISTIAN HISTORY, THEOLOGY, AND PHILOSOPHY  3
Prerequisite  3.0 GPA minimum, junior status; Religion Department Chair approval
An ATS topics course in Christian history, theology and/or philosophical studies. May be repeated once for a different topic. See department chair for information.

REL 452  SEMINARY COURSE IN PRACTICAL THEOLOGY  3
Prerequisite  3.0 GPA minimum, junior status; Religion Department Chair approval
An ATS topics course in Christian ministry or practical theology. May be repeated once for a different topic. See department chair for information.

REL 497  RELIGION THESIS SEMINAR  3
Prerequisite  REL*106
Designed to give religion majors a guided opportunity to research and write a paper on a topic of interest in their area of concentration.
Supply Chain Management (SCM)

SCM 243 PROCUREMENT 3
Prerequisite MGT*233
This course will introduce the student to the principles of procurement. The course will focus on the purchasing process and structure as well as supplier evaluation.

SCM 316 SUPPLY CHAIN MANAGEMENT 3
Prerequisite MATH*208; MKT*233 or MGT*240
Physical distribution management involves the integration of the purchasing, production, control, warehousing, transportation, materials handling, forecasting, order processing and marketing functions in a modern business. A relatively new area of management study, physical distribution draws upon the fields of marketing, production, accounting and transportation, and the disciplines of applied mathematics, organizational behavior and economics.

SCM 350 LOGISTICS 3
Prerequisite SCM*316
This course will introduce the student to the principles of logistics. The course will focus on information, warehousing, and transportation mode requirements necessary for the development of a comprehensive logistics system.

SCM 351 LEAN PRODUCTION AND QUALITY 3
Prerequisite MGT*319
This course will introduce the student to the principles of lean production and quality management. The course will focus on the identification of quality requirements and lean production procedures. The student will learn the use of these techniques and procedures in the context of application to supply chain management.

SCM 431 SUPPLY CHAIN STRATEGY 3
Prerequisite SCM*351
This course will focus on the integration of operational supply chain plans, including procurement, warehousing, inventory management, and transportation requirements, into a macro supply chain strategy that is a critical element of a total business strategic plan.

Sport Management (SMG)

SMG 122 BADMINTON 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 124 BILLIARDS 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 125 BOWLING 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 133 GOLF I 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 147 TENNIS I 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 151 VOLLEYBALL 1
Prerequisite None
Each section meets two hours per week (or equivalency) for a half semester. Each section earns one semester credit. Sport skills and activities are taught for recreational and health outcomes. Special corrective work is given to meet individual needs upon recommendation of the school physician. Graded S/U.

SMG 161 CONCEPTS OF SPORT, RECREATION, AND LEISURE 3
Prerequisite None
A survey of the historical development of recreation and leisure and its corresponding philosophical and theoretical thought. Understanding of and ability to facilitate leisure lifestyles and use of leisure resources throughout the human life span.

SMG 168 FIELD EXPERIENCE IN SPORT I 1
Prerequisite None
Initial experience in various leisure delivery settings at approved sites under qualified personnel. 30-60 clock hours minimum.

SMG 238 FIELD EXPERIENCE IN SPORT II 2
Prerequisite SMG*168
Field experience in approved leisure, sport, or therapeutic recreation service delivery systems with qualified supervisor during sophomore or junior year following completion of prerequisite major courses. 60 clock hours minimum, with exposure to various sites and clientele.

SMG 255 LEADERSHIP OF SPORT 3
Prerequisite None
An introduction to theories, approaches, and styles of leadership utilized in the recreation profession. Topics for study include decision-making strategies, motivation techniques, communication, non-verbal communication, group dynamics, diversity, trends, values, ethics, and vision.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SMG 262</td>
<td>FACILITIES DESIGN/EVENT MANAGEMENT IN SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: SMG*161</td>
<td>This course examines the principles and procedures for planning, designing, operating, and maintaining the facilities, resources, and areas of leisure services. This course increases the awareness of knowledge and skills in event planning and management as applied to a variety of sport and recreational settings.</td>
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<tr>
<td>SMG 270</td>
<td>INTRODUCTION TO TOURISM</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
<td>An introduction to the various facets of tourism and the tourism industry. The relationships among psychological, sociological, anthropological economic and environmental issues associated with tourism will be examined.</td>
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<tr>
<td>SMG 310</td>
<td>CURRENT TRENDS IN SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: Sophomore status</td>
<td>The purpose of this course is for students to learn about current trends related to the management and operation of resort, private club properties, sport and recreational values. This course will be a project-based course which will encourage students to study and explore the historical development, economic influence and demographic impact of these various venues. Topics will include private club and resort management, sport and recreational management, customer service, advertising, outdoor programming, and diversity implications.</td>
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<tr>
<td>SMG 313</td>
<td>OUTDOOR PROGRAMMING</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
<td>The role of outdoor education and recreation in today's society; functions and policies, current issues, development of outdoor education programs and adventure challenge activities.</td>
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<tr>
<td>SMG 329</td>
<td>LEGAL ASPECTS</td>
<td>3</td>
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<tr>
<td>Prerequisite: SMG<em>161 or ATR</em>165</td>
<td>Course covers the different types of laws that affect the fields of recreation, therapeutic recreation, athletics and sport in the areas of facility supervision, tort law, professional regulations, risk management, liability, negligence, contract law, constitutional law, trademark laws, Title IX, and others.</td>
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<tr>
<td>SMG 360</td>
<td>RESEARCH IN SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: MATH*208</td>
<td>This course includes the investigation of current issues and research in sport management. It also incorporates using computer applications such as SPSS software to analyze research data and business statistics.</td>
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<tr>
<td>SMG 370</td>
<td>INTERNATIONAL TOURISM</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
<td>This course introduces students to the field of international tourism from the political, social, environmental, cultural, and applied (business) perspectives. The course is designed to incorporate both lecture and seminar learning. Meets Core credit for GPS-Border Crossings.</td>
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<tr>
<td>SMG 404</td>
<td>PSYCHOLOGY OF SPORT AND COACHING</td>
<td>3</td>
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<tr>
<td>Prerequisite: ATR<em>165 or SMG</em>161; PSYC*101 recommended</td>
<td>Acquaints the student with the wide realm of sports in modern society. A discussion of general psychological factors which characterize sports, such as personality of the athlete, personality of the coach, motivation, emotion, aggression, and social factors which are unique in sports and coaching.</td>
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<tr>
<td>SMG 405</td>
<td>MANAGEMENT OF SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: MGT*240</td>
<td>Analysis of administration philosophy, standards, policies and procedures in the sport industry.</td>
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<tr>
<td>SMG 408</td>
<td>ETHICS AND SOCIAL ISSUES IN SPORT AND PHYSICAL ACTIVITY</td>
<td>3</td>
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<tr>
<td>Prerequisite: SMG*161</td>
<td>An exploration of the changing concepts of the sport sciences over time. The student is given the opportunity to apply philosophical, historical and sociological foundations to practical issues in sport and physical activity. The focus on current issues and their development is a central component of this course.</td>
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<tr>
<td>SMG 415</td>
<td>SPORT MARKETING</td>
<td>3</td>
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<tr>
<td>Prerequisite: MKT*233</td>
<td>This course provides basic principles of marketing and the nuances of such applied to the managed sport industry (i.e., intercollegiate athletics, youth sports, professional sport, recreation, fitness, multi-sport club operations, etc.) Students will examine and utilize basic marketing principles in the domain of sport. Topics will include sport products and services, marketing strategies, consumer behavior, research and information management, promotions, targeting, segmenting, positioning, and sponsorship.</td>
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<tr>
<td>SMG 420</td>
<td>GOVERNANCE &amp; POLICY IN SPORT ORGANIZATIONS</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: SMG*161</td>
<td>An examination of sport organizations focused on both professional and amateur governance structures and processes. The study of policy in educational, non-profit and professional sport venues will also be addressed.</td>
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<tr>
<td>SMG 430</td>
<td>FINANCIAL PRINCIPLES IN SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: SMG<em>161; ACCT</em>201; ECON*232</td>
<td>This course examines the monetary aspects of the sport industry. Applications are made both industry-wide and to specific sport organizations.</td>
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<tr>
<td>SMG 435</td>
<td>GLOBAL PERSPECTIVES IN SPORT</td>
<td>3</td>
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<tr>
<td>Prerequisite: None</td>
<td>An interdisciplinary examination of sport as a global phenomenon. Historical, cultural, economic, and governance perspectives will be considered. Meets Core credit for GPS-Border Crossings.</td>
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<tr>
<td>SMG 440</td>
<td>PROFESSIONAL SEMINAR: SPORT LEADERSHIP</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite: Permission</td>
<td>Professional trends and issues including legislation, laws, credentialing, accreditation, ethical and social issues, regulations, advocacy, and changes in management and health care.</td>
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<tr>
<td>SMG 450</td>
<td>INTERNSHIP IN SPORT</td>
<td>6</td>
</tr>
<tr>
<td>Prerequisite: Permission</td>
<td>A full-time, 12-week, 480-hour experience in an approved sport, recreation and/or leisure agency setting under the direction of a qualified university supervisor.</td>
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</tbody>
</table>
SOC 111  PRINCIPLES OF SOCIOLOGY  3

The focus of this course is centered on an in depth examination of social forces and their impact on social structure, sociocultural evolution and the socialization process. The theoretical perspectives, concepts, and principles of sociology are then applied to various areas of sociology such as social organization, culture, social structure, social interaction, social stratification, social inequality, social deviance and social institutions. Meets Core credit for social sciences.

SOC 202  ALCOHOLISM AND SUBSTANCE ABUSE  3

This course is designed to give a general overview of the role and extent of the alcohol/chemical use abuse, and dependency in our society. Areas to be discussed include examining our personal and societal attitudes, defining and understanding the stages of addiction, gaining specific expertise in intervention and helping techniques, looking at the problem of DWI in our country and studying the impact of chemical dependency on the family members and significant others.

SOC 223  SOCIOLOGY OF AGING  3

Course will examine the societal aspects of aging; the meaning and consequences of aging; cultural and ethnic issues; and the interaction of the aging with political, economic, and other social phenomena. Course focus begins at the later stage of middle adulthood, and progresses through older adulthood.

SOC 225  CONTEMPORARY SOCIAL PROBLEMS  3

An in-depth study of selected social problems, emphasizing major theoretical approaches to understanding problem situations. Particular attention is given to diversity and oppression as they impact on life in contemporary America.

SOC 242  CRIMINOLOGY  3

A concentrated analysis of social institutions in specialized areas. Topics include politics, education, religion, sports, medicine, collective behavior, etc. On demand, repeatable to a maximum of nine semester hours.

SOC 244  JUVENILE DELINQUENCY  3

A study of the existing juvenile justice system, including court procedures and juvenile procedures, with an emphasis on an understanding of the legal principles behind these procedures.

SOC 275  GANGS AND CULTS  3

Examines the historical and contemporary issue of gangs and cults in the United States and focuses on gang and cult recruitment, subculture, beliefs, activities, signs, and symbols. CJ/SOC credit.

SOC 301  RACE, ETHNIC AND MINORITY ISSUES  3

The course will examine the interaction between the dominant and minority cultures particularly within the United States. Students will be introduced to a transnational perspective; exploring groups who have immigrated to the United States, but share a set of cultural values shaped by their homeland, especially in the areas of human interaction, social expectations, economics, religious and political movements. The concept of culture will be discussed in terms of both the majority culture, which provides the social framework that encourages assimilation and fusion, and the minority sub-culture that strives and struggles to maintain a sense of identity. The consequences of living in a multi-ethnic, multi-faith, multicultural society will also be studied. Meets Core credit for social sciences.

SOC 305  SOCIAL PSYCHOLOGY  3

A study of the development of modern psychology through to the present, focusing on the nature of the mind, the basis for knowledge, and the nature of the human condition.

SOC 307  VICTIMOLOGY  3

An introduction to the study of victimology, including topics such as the causes and consequences of victimization, the nature and impact of victim behavior, and the role of the victim in the criminal justice system.

SOC 330  TOPICS IN SOCIOLOGY  3

A study of recent and current developments in sociology, with an emphasis on critical analysis of sociological theories and methods.

SOC 340  MARRIAGE AND FAMILY RELATIONSHIPS  3

This course explores the similarities and differences among families and marriages, family structures and functions, changes throughout the family life cycle, and the history of marriage and family in American culture. Critical topics in the area of marriage and family relationship, including events and attitudes leading to the formation of family units (defining love, dating, pairing up, cohabitation, marriage); problems and experiences arising from the institution of the family (gender roles, conflict, parenting, work/life balance, divorce, remarriage); and development of a philosophy regarding marriage and family life will be explored. Meets Core credit for social sciences.

SOC 352  SOCIAL DEVIANCE  3

The systematic and objective study of human behavior and phenomena that conventional society has labeled different, rule-breaking and norm-violating.

SOC 355  HUMAN SEXUALITY  3

An examination of such topics as sexual potential and development, reproduction, psychosexual factors, values, morality, sexual varieties, social influences, sexual problems, sexual diseases, love, sexual expression, and the role of the schools, mass media, the arts, professional preparation programs, education, and the family in sex education.

SOC 415  ADVANCED CRIMINOLOGY AND PROFILING  3

A detailed study of the principles and methods of police work and criminology, with an emphasis on the investigation of crimes, the use of technology in law enforcement, and the role of the criminal justice system in society.

Course Descriptions
SOC 460 RESEARCH METHODS IN SOCIAL SCIENCE 3

Prerequisite MATH*208, SOC*111; senior status

An introduction to methodological techniques of research in the social sciences. Emphasis is placed on quantitative and qualitative research methodologies as they relate to building knowledge for practice and to evaluating service delivery in all areas of practice. Research ethics, analysis and evaluation of theoretical bases, research questions, analysis of data, and use of technology are covered. SOC/SOCWK credit.

Social Work (SOCWK)

SOCWK 221 INTRODUCTION TO SOCIAL WORK 3

Prerequisite SOC*111; PSYC*101

This course is designed to introduce students to the field of social work. It offers an overview of the settings in which social workers practice, the populations they encounter, the social problems they address, and the interventions they utilize. Students are introduced to systems theory, social policies with guide practice and the historical underpinnings of the social work profession. The course will examine the knowledge, values, ethics, and skills necessary for the effective practice of social work with diverse populations. Students complete an agency volunteer/shadowing experience.

SOCWK 230 GLOBAL HUMAN RIGHTS AND SOCIAL JUSTICE 3

Prerequisite None

This course will explore global social justice issues through the lens of various human rights documents. Issues to be examined include forced labor, war and conflict, and violence against women and children. The history and development of these issues, how culture of individual countries and regions affect the issues and responses, as well as possibilities for the resolution of the issue will be examined. Meets Core credit for social sciences and GPS-Border Crossings.

SOCWK 250 FOUNDATIONS OF SOCIAL WELFARE 3

Prerequisite None

This course examines and analyzes the history of social welfare in the United States to understand the context of social welfare movements and policies. Emphasis will be placed on the volunteer beginnings of social work which led to the development of the social work profession, and to issues of poverty and social, political, and economic justice that affect oppressed groups in American Society.

SOCWK 265 PARENT-CHILD RELATIONSHIPS 3

Prerequisite None

Explores parent/child relationships from infancy through adolescence. The course addresses parenting philosophies, child guidance strategies, family diversity, and challenges to contemporary parents and their children. The dynamics of parent/child interactions are analyzed from a systems perspective that considers the reciprocal impact of children on parents as well as parents on their children. Includes understanding and facilitating parents in their parenting role.

SOCWK 304 HUMAN BEHAVIOR ACROSS THE LIFESPAN 3

Prerequisite BIO*100, SOCWK*221 or Sophomore status

This course focuses on individuals as they develop over the life span and have membership in various systems such as families, groups, organizations and communities. It provides students with theories and knowledge related to biological, social, psychological, spiritual and cultural variables. It addresses the environmental conditions that promote or deter individual and family growth; the reciprocal impact of people and a range of environmental systems; and variations in development and functioning that arise from diversity factors. The course provides the foundation for completing accurate assessments of human problems, choosing intervention strategies and evaluating interventions.

SOCWK 305 FAMILY VIOLENCE 3

Prerequisite None

This course examines the dynamics of power and control in intimate relationships. Theories from the social sciences, particularly sociology, are used to assess these dynamics and the socio-cultural setting in which they exist. Readings introduce the historical status of women and children; dramatic exercises provide experiential learning about being involved in situations of power and control. Meets Core credit for social sciences.

SOCWK 306 SOCIAL ENVIRONMENT AND HUMAN BEHAVIOR 3

Prerequisite SOCWK*304, SOC*301 or corequisite

A continuation of the study of individual interaction with the social environment, particularly with larger systems such as organizations and rural and urban communities. Students learn the dynamics of oppression and the effects of oppression on the social and economic circumstances of members of diverse and at risk populations.

SOCWK 310 SOCIAL WORK PRACTICE I 3

Prerequisite SOCWK*221

This course is designed to provide students with a generalist approach to social work practice and basic knowledge of social work methods. Areas of study include social work values and ethics, problem-solving, the client-worker relationship, interviewing and relationship-building skills, group process and professional writing. For social work majors only.

SOCWK 312 SOCIAL WORK PRACTICE II 3

Prerequisite SOCWK*304, SOCWK*310; a grade of C or better in SOCWK*310

Continues the generalist approach to social work practice. Students learn the social work process, along with interviewing skill refinement, and the processes and skills involved in working with families. Attention is given to differential assessment and intervention skills that will enable practitioners to serve diverse populations and practice competently across rural and urban settings.

SOCWK 320 TOPICS IN SOCIAL WORK 3

Prerequisite None

A focused study of a particular area of social work practice, including assessment of problem situations and helping efforts directed at remediating problems. Topics include case management, women's issues, working with children, and others. Course can be repeated as topics change.
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SOCWK 323</td>
<td>LATER ADULTHOOD IN THE FAMILY CONTEXT</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> None</td>
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<tr>
<td></td>
<td>The study of later adulthood, focusing on</td>
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<td></td>
<td>relationships, kinship ties, living</td>
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<td></td>
<td>arrangements, and financial issues within the</td>
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<td></td>
<td>family context. The course will examine the</td>
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<td></td>
<td>reciprocal effects of decision-making and caring</td>
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<td></td>
<td>for an aging adult on the individual and the</td>
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<td></td>
<td>family.</td>
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<tr>
<td>SOCWK 324</td>
<td>WORKING WITH OLDER ADULTS</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> None</td>
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<tr>
<td></td>
<td>This course provides a comprehensive approach</td>
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<td>to working with older adults. Areas of study</td>
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<td>include the ethical basis for practice, forming</td>
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<tr>
<td></td>
<td>and maintaining the working relationship,</td>
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<tr>
<td></td>
<td>interviewing skills, problem-solving with</td>
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<td></td>
<td>assessment and intervention skills, professional</td>
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<tr>
<td></td>
<td>writing, and knowledge of relevant social policy.</td>
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<tr>
<td>SOCWK 330</td>
<td>INTERNATIONAL PERSPECTIVES ON WOMEN</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> None</td>
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<tr>
<td></td>
<td>This course focuses on women's issues from a</td>
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<td></td>
<td>international perspective and addresses the</td>
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<td></td>
<td>diversity and similarity of women's experiences</td>
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<td></td>
<td>worldwide. It considers the scope of gender</td>
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<td>injustice and the variety of factors (e.g. social</td>
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<td></td>
<td>, economic, political, religious) that contribute</td>
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<td></td>
<td>to it. The course examines current cross-cultural</td>
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<td></td>
<td>attitudes toward the family, women's work,</td>
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<td></td>
<td>and women's status and explores international</td>
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<td>gender equality movements and women's rights as</td>
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<td>human rights. Meets Core credit for social</td>
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<tr>
<td></td>
<td>sciences and GPS-Border Crossings.</td>
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<tr>
<td>SOCWK 350</td>
<td>DEATH AND DYING</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> None</td>
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<tr>
<td></td>
<td>This course explores concepts related to death</td>
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<td>and dying, death perceptions from childhood</td>
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<td>through older adulthood, social and cultural</td>
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<td></td>
<td>attitudes, insights into the needs of the</td>
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<tr>
<td></td>
<td>dying person and family, one's own beliefs and</td>
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<td></td>
<td>feelings toward the death of others and self,</td>
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<td></td>
<td>and the ethical aspects surrounding death. The</td>
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<td></td>
<td>student will study current theories and practices</td>
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<td>related to death and dying from the standpoint</td>
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<td></td>
<td>of developmental and systems theories, and social</td>
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<td></td>
<td>and cultural attitudes and practices. Meets Core</td>
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<tr>
<td></td>
<td>credit for social sciences.</td>
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<tr>
<td>SOCWK 408</td>
<td>SOCIAL POLICY DEVELOPMENT AND ANALYSIS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite</strong> SOCWK<em>221, SOCWK</em>250, and</td>
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<td></td>
<td>senior status</td>
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<td></td>
<td>A continuing examination of social welfare</td>
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<td></td>
<td>policy, with emphases on current policy,</td>
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<tr>
<td></td>
<td>policy analysis, and skills for influencing</td>
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<td></td>
<td>policy development. Students are exposed to</td>
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<tr>
<td></td>
<td>theoretical frameworks and acquire practical</td>
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<td></td>
<td>skills in policy analysis and are introduced to</td>
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<tr>
<td></td>
<td>theories and skills of influencing for change.</td>
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<tr>
<td>SOCWK 412</td>
<td>SOCIAL WORK COMMUNITY PRACTICE</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Prerequisite</strong> SOCWK<em>306, SOCWK</em>312, SOC*225</td>
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<tr>
<td></td>
<td>(or co-requisite); a grade of C or better in</td>
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<td></td>
<td>SOCWK*312</td>
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<tr>
<td></td>
<td>This course focuses on the theories and</td>
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<td></td>
<td>strategies that allow a generalist social worker</td>
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<td></td>
<td>to recognize and act on the need for change in</td>
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<td></td>
<td>larger systems such as organizations,</td>
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<td>communities, and societal institutions in order</td>
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<td>to ensure that human and civil rights are</td>
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<td></td>
<td>protected, that resources are equitably</td>
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<td>distributed, and that opportunities are</td>
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<tr>
<td></td>
<td>available to all.</td>
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</tbody>
</table>

**SOCWK 417 PRE-PRACTICUM SEMINAR**

**Prerequisite** SOCWK*312, SOCWK*306; co-requisites SOCWK*408, SOCWK*412

This course is designed to prepare students for beginning professional entry-level generalist practice. This course will review issues related to agency based work environments and service delivery in a generalist framework, discuss current issues in the field, and focus on the professional use of self. The course covers ethical practice, documentation, supervision, and the development of a learning contract. The process of arranging the field practicum (SOCWK 418 Field Instruction) for the subsequent spring semester takes place as part of this course. Graded S/U.

**SOCWK 418 FIELD INSTRUCTION**

**Prerequisite** All SOCWK academic courses with a minimum of 2.25 GPA; a grade of C or better in SOCWK*412 co-requisite SOCWK*419

Field instruction is an integral part of the social work curriculum and takes place during the last semester of the senior year. Field Instruction gives students an intensive opportunity to apply social work knowledge, values, and skills in practice situations in a social agency under the supervision of a social worker. Students practice within the generalist framework with individuals, families, groups, organizations and communities and spend 36 hours a week in the agency (a minimum total of 500 hours).

**SOCWK 419 FIELD SEMINAR**

**Prerequisite** SOCWK*417; co-requisite SOCWK*418

A problem-solving seminar taken concurrently with Field Instruction in which students examine the social work knowledge base, practice skills, values, and policies as they relate to their experience in agencies. As part of the seminar, students complete the Montana Social Work Competence Written and Oral Examination.

**SOCWK 460 RESEARCH METHODS IN SOCIAL SCIENCE**

**Prerequisite** MATH*208, SOC*111

An introduction to methodological techniques of research in the social sciences. Emphasis is placed on quantitative and qualitative research methodologies as they relate to building knowledge for practice and to evaluating service delivery in all areas of practice. Research ethics, analysis and evaluation of theoretical bases, research questions, analysis of data, and use of technology are covered. SOC/SOCWK credit.

**Spanish (SPAN)**

**SPAN 171 ELEMENTARY SPANISH I**

**Prerequisite** None. Appropriate course for beginners. Note: not open to students who have placed into SPAN*172, 271, 272.

Introduction to Spanish language and culture with practice in the basic skills of the language. Lab work required. Taught in Spanish. Offered annually.

**SPAN 172 ELEMENTARY SPANISH II**

**Prerequisite** SPAN*171 or one to two years of high school language study or equivalent. Note: not open to students who have placed into SPAN*271 or 272.

A continuation of SPAN 171. Taught in Spanish. Offered annually.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 200</td>
<td>INTERMEDIATE LEVEL INTENSIVE</td>
<td>3-6</td>
<td>SPAN*172 or equivalent, permission of the department, study abroad eligibility criteria</td>
</tr>
<tr>
<td></td>
<td>SPANISH STUDY ABROAD</td>
<td></td>
<td>A program designed to provide students with an intermediate-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host cultures. Orientation and debriefing sessions on campus are required. 6 hours, or 3 hours plus SPAN 271 meets the GPS requirement.</td>
</tr>
<tr>
<td>SPAN 271</td>
<td>INTERMEDIATE SPANISH I</td>
<td>3</td>
<td>SPAN<em>172 or two or more years of high school language study or equivalent. Note: Not open to students who have placed into SPAN</em>272.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>A course designed to increase the student's understanding of the language by building on the skills learned in the elementary course. Lab work required. Taught in Spanish. Offered annually.</td>
</tr>
<tr>
<td>SPAN 272</td>
<td>INTERMEDIATE SPANISH II</td>
<td>3</td>
<td>SPAN*271 or two or more years of high school language study or equivalent. Note: Not open to students who place into 300 level courses.</td>
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<tr>
<td></td>
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<td>A continuation of SPAN 271. Lab work required. Taught in Spanish. Offered annually. Completion fulfills GPS requirement.</td>
</tr>
<tr>
<td>SPAN 300</td>
<td>ADVANCED LEVEL INTENSIVE</td>
<td>3-6</td>
<td>SPAN*272 or equivalent, permission of the department, study abroad eligibility criteria</td>
</tr>
<tr>
<td></td>
<td>SPANISH STUDY ABROAD</td>
<td></td>
<td>A program designed to provide students with an advanced-level immersion experience. Students will attend six hours of language instruction per day, participate in cultural experiences, and live with families of the host cultures. Orientation and debriefing sessions on campus are required.</td>
</tr>
<tr>
<td>SPAN 307</td>
<td>SPANISH PHONETICS</td>
<td>3</td>
<td>SPAN*272 or equivalent</td>
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<td>A course designed to provide a review of Spanish pronunciation and an introduction to phonetics and phonology, including the study of features of principal dialects and a contrastive analysis of Spanish and English sound systems. Language lab required. Taught in Spanish. Offered alternate years.</td>
</tr>
<tr>
<td>SPAN 310</td>
<td>SPANISH GRAMMAR AND COMPOSITION</td>
<td>3</td>
<td>SPAN*272 or equivalent</td>
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<td>The course offers an intensive review and expansion of grammar and vocabulary. Students will apply the material studied and develop their written expression in Spanish through a writing and revising process that leads to portfolio assessment. Taught in Spanish. Offered annually.</td>
</tr>
<tr>
<td>SPAN 311</td>
<td>CIVILIZATION OF SPAIN</td>
<td>3</td>
<td>SPAN*310</td>
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<td>In order to understand contemporary Spanish identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. The social organization and forces of Spain from ancient times to the present are examined with an emphasis on contemporary Spain. Taught in Spanish. Offered alternate years. Meets Core credit for social sciences.</td>
</tr>
<tr>
<td>SPAN 312</td>
<td>CIVILIZATION OF LATIN AMERICA</td>
<td>3</td>
<td>SPAN*310</td>
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<td></td>
<td>In order to understand contemporary Latin American identity, this course explores and analyzes current issues, cultural manifestations, historical and geopolitical developments, and internal and external relations. The social organization and forces of Latin America from ancient times to the present are examined with an emphasis on contemporary Spain. Taught in Spanish. Offered alternate years. Meets Core credit for social sciences.</td>
</tr>
<tr>
<td>SPAN 371</td>
<td>INTRODUCTION TO SPANISH LITERARY STUDIES</td>
<td>3</td>
<td>SPAN<em>310, SPAN</em>311 or SPAN*312</td>
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<td>Introduction to the analysis of Spanish literary texts, including poetry, drama, fiction and essay. Reading selections will include authors from both Spain and Latin America. Taught in Spanish. Offered infrequently.</td>
</tr>
<tr>
<td>SPAN 372</td>
<td>SURVEY OF SPANISH LITERATURE</td>
<td>3</td>
<td>SPAN*310</td>
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<td>A survey of the milestones of Spanish literature, from its beginnings to the present time. Taught in Spanish. Offered alternate years. Meets core credit for humanities.</td>
</tr>
<tr>
<td>SPAN 373</td>
<td>SURVEY OF LATIN AMERICAN LITERATURE</td>
<td>3</td>
<td>SPAN*310</td>
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<tr>
<td></td>
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<td></td>
<td>A survey of the milestones of Latin American literature, from its beginnings to the present time. Taught in Spanish. Offered alternate years. Meets core credit for humanities.</td>
</tr>
<tr>
<td>SPAN 377</td>
<td>CONVERSATIONAL SPANISH I</td>
<td>3</td>
<td>SPAN*272 or equivalent</td>
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<td>Designed to provide the student with an opportunity to apply the grammatical concepts learned in the basic language program and to improve conversational fluency through oral exercises, discussions, and activities related to everyday situations. Taught in Spanish. Offered alternate years.</td>
</tr>
<tr>
<td>SPAN 378</td>
<td>CONVERSATIONAL SPANISH FOR THE PROFESSIONS</td>
<td>3</td>
<td>SPAN*272 or equivalent</td>
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<td>A project based course designed to provide the student with an opportunity to apply the grammatical concepts learned in the basic language program and to improve conversational fluency through oral exercises, discussions, and activities related to the profession of the individual student's intended major. Taught in Spanish. Offered annually.</td>
</tr>
<tr>
<td>SPAN 381</td>
<td>PK-8 EDUCATION ABROAD</td>
<td>2</td>
<td>SPAN<em>300, SPAN</em>310; study abroad eligibility criteria</td>
</tr>
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<td></td>
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<td>A course designed to increase the student's understanding of early childhood education in a Spanish-speaking country by providing in-class cultural and linguistic instruction as well as field experiences in elementary schools. Taught in Spanish. Required for early childhood education Spanish minor. Offered annually.</td>
</tr>
<tr>
<td>SPAN 476</td>
<td>SEMINAR IN HISPANIC STUDIES</td>
<td>3</td>
<td>SPAN<em>311 or SPAN</em>312; SPAN<em>372 or SPAN</em>373</td>
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<td>A seminar on topics pertinent to the field of Hispanic studies in language, culture, civilization or literature. The content will vary depending upon the interest and needs of students. The course may be repeated for a total of 6 hours. Taught in Spanish. Topics will vary or alternate each year. Taught annually.</td>
</tr>
</tbody>
</table>
SPAN 477 ADVANCED CONVERSATION AND COMPOSITION 3

Prerequisite SPAN*310
A course designed for students to practice speaking Spanish, build specialized vocabulary necessary for communication, reinforce complex syntactic structures, and improve writing skills. Taught in Spanish. Offered infrequently.

Theatre (TH)

TH 100 THEATRE PRACTICUM 0

Prerequisite None
This is a studio course for students participating in Theatre Department productions directed by faculty or guest artists. Students participate in one of three areas as: a) performers, b) run crew/designers and c) managers. May be repeated.

TH 105 PERFORMANCE STUDIES 3

Prerequisite See COM 105 for course information.

TH 109 STAGE MOVEMENT AND DANCE I 1

Prerequisite None
An introduction to and development of movement and dance skills for the theatre. In progressive semesters different dance styles will be taught, including ballet, jazz, tap and modern. May be repeated once.

TH 110 STAGE MOVEMENT AND DANCE II 1

Prerequisite TH*109
This course presents further study in movement and dance skills for the theatre. Students will take one ballet, one jazz and one tap class per week in a professional dance studio. May be repeated once.

TH 150 THEATRE PRODUCTION LABORATORY 1

Prerequisite None
This is a laboratory course for students gaining practical experience while working on theatre department productions directed by faculty or guest artists. There are six laboratory areas: costume construction, lighting, scene painting, properties, scenic construction, and publicity. May be repeated.

TH 203 THEATRE AESTHETICS 3

Prerequisite None
Students will examine ways in which theatre art and theatre artists suggest meaning and invite interpretation of the human experience. Critical standards and theories specific to theatre will be discussed and then applied to the study of selected play scripts and performances. Meets Core credit for aesthetics.

TH 204 SCRIPT ANALYSIS 3

Prerequisite None
This course introduces students to methods of script analysis or how to read a play. Analysis will focus on dramatic structure, content and meaning from a theatrical point of view and will be based on principles established by Aristotle in the Poetics. Methods of script analysis will be discussed and applied to representative play scripts. Meets Core credit for humanities.

TH 205 VOICE AND ARTICULATION 3

Prerequisite None
The study of correct sound production focusing on the precise shaping of the vocal sound. Emphasis on articulation and standard speech exercises incorporating the use of phonetics and one of the accepted methods of vocal production theory.

TH 206 INTRODUCTION TO TECHNICAL THEATRE 3

Prerequisite None
The course is an interactive introduction to the many techniques of technical theatre and theatre operations. It covers basic scenic construction, costume construction, technical aspects of lighting and properties building techniques.

TH 207 THE VISUAL ART OF THEATRE 3

Prerequisite None
The course offers the opportunity to learn, develop and practice the art of set, costume and lighting design. Students are required to critically analyze all visual and other sensory aspects of a live production. The course concentrates specifically on the processes, skills and disciplines of design for performance - the handling of forms, textures and colors in real, fictional and metaphorical spaces. Students will read several play scripts and work to discover the metaphors within. They will examine ways in which theatre design can suggest meaning and interpretation of the script. Meets Core credit for aesthetics.

TH 208 VOCAL EXPRESSION OF LITERATURE 3

Prerequisite None
The study and interpretation of literature through oral performance. Emphasis on vocal and body technique, textual analysis and the communication of various literary art forms expressing their intellectual, emotional and aesthetic qualities through oral performance. Meets Core credit for aesthetics.

TH 209 STAGE MOVEMENT & DANCE III 1

Prerequisite TH*110
Ballet concentration, offering intensive training for the advanced student. Classroom performance, demonstration of knowledge of ballet vocabulary, and advancement of ballet skills are stressed. May be repeated once.

TH 210 STAGE MOVEMENT & DANCE IV 1

Prerequisite TH*209
Tap concentration class. Grade is determined by demonstration of knowledge of tap vocabulary and advancement of tap skills. May be repeated once.

TH 211 BASIC ACTING TECHNIQUE 3

Prerequisite For Theatre majors and minors only.
A study of the actor's craft with strong emphasis on physicalization. Students will discover the importance of physicalization to the acting process through the practice and performance of realistic pantomimes, improvisations, and theatre games. Beginning vocal technique, character analysis and process performance of modern realistic monologues will also be incorporated.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TH 212</td>
<td>BUILDING ACTING TECHNIQUE</td>
<td>3</td>
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<tr>
<td>Prerequisite</td>
<td>None</td>
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<td></td>
<td>A continuation of Basic Acting Technique beginning with deconstructing the process performance monologue in a moment to moment exercise. Exercises in advanced vocal and physical technique will also be employed. Students will be introduced to armed stage combat technique and beginning scene study.</td>
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<tr>
<td>TH 214</td>
<td>ACTING FOR NON-MAJORS</td>
<td>3</td>
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<tr>
<td>Prerequisite</td>
<td>None</td>
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<td></td>
<td>This course is a study of acting as an art form. It emphasizes an acting process and skills utilized by the beginning actor. The approach to acting is grounded in contemporary acting theory and practice. Meets Core credit for aesthetics.</td>
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<tr>
<td>TH 222</td>
<td>STAGE MAKE-UP</td>
<td>3</td>
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<td>Prerequisite</td>
<td>None</td>
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<td>The study of stage make-up, its application and its relationship to developing a character. Emphasis on traditional painting techniques, but with exploration of some prosthesis building and use of crepe hair, spirit gum, latex and wigs.</td>
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<tr>
<td>TH 303</td>
<td>AMERICAN MUSICAL THEATRE</td>
<td>3</td>
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<td>Prerequisite</td>
<td>None</td>
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<td>This course is an exploration of the development of the Broadway musical during the twentieth century. Representative musicals will be examined in terms of style, elements, and structure in order to identify criteria for aesthetic evaluation. The contributions of the major musical theatre artists and practitioners of the 20th century will be discussed as they relate to the evolution of this uniquely American theatrical form. Meets Core credit for aesthetics.</td>
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<tr>
<td>TH 305</td>
<td>TOPICS IN PERFORMANCE</td>
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<tr>
<td>Prerequisite</td>
<td>None</td>
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<td></td>
<td>This course will examine various topics relating to theatre performance. Repeatable with different topics, but only three hours count toward the major.</td>
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<tr>
<td>TH 306</td>
<td>TOPICS IN THEATRE DESIGN</td>
<td>3</td>
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<tr>
<td>Prerequisite</td>
<td>None</td>
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<td></td>
<td>This course will examine various topics relating to theatre design and technology. Repeatable with different topics, but only three hours count toward the major.</td>
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<tr>
<td>TH 309</td>
<td>STAGE MOVEMENT &amp; DANCE V</td>
<td>1</td>
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<tr>
<td>Prerequisite</td>
<td>TH 209</td>
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<td></td>
<td>Jazz concentration. Grading is based on knowledge of jazz vocabulary and advancement of jazz skills. May be repeated one.</td>
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<tr>
<td>TH 313</td>
<td>SCENE STUDY</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>TH 212</td>
<td></td>
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<td></td>
<td>Students will explore various approaches to acting using scenes from representative plays. Approaches include: performing actions with a character's psychological intention; playing episodes and applying episodic techniques; building images and using vocal and physical masks; playing the rules in the world of the play; point of view in storytelling and soliloquies; and combinations of episode, event, image and illusion techniques.</td>
<td></td>
</tr>
<tr>
<td>TH 314</td>
<td>ACTING THEORY AND ADVANCED</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>TH 211</td>
<td></td>
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<tr>
<td></td>
<td>An advanced acting laboratory that combines approaches to scene work with continual study in acting theory. In addition to acting scenes, students will engage in research and study of important representative acting theorists and practitioners.</td>
<td></td>
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<tr>
<td>TH 316</td>
<td>ADVANCED SCENE DESIGN</td>
<td>3-9</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>TH 206, TH 207</td>
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<tr>
<td></td>
<td>Students will explore alternative methods and media of presentational matter. Students will be asked to design in a variety of styles based upon the careful reading of plays. This course will also focus on the problems of designer/director communication in both verbal and written forms. May be repeated for up to 9 hours credit.</td>
<td></td>
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<tr>
<td>TH 317</td>
<td>ADVANCED LIGHTING DESIGN</td>
<td>3-9</td>
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<tr>
<td>Prerequisite</td>
<td>TH 206, TH 207</td>
<td></td>
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<tr>
<td></td>
<td>Students will explore methods of lighting for productions other than theatre, such as dance, opera and musical concert. This course will also focus on the problems of designer/director communication in both verbal and written form. Lab hours required. May be repeated for up to 9 hours credit.</td>
<td></td>
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<tr>
<td>TH 321</td>
<td>THEATRE AND ARTS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>None</td>
<td></td>
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<tr>
<td></td>
<td>A study of theatre and arts management principles and techniques. Attention will be given to each of the major functions of the theatre or arts manager, including organization, budget preparation, publicity, box office operation and fund raising. The students will apply these techniques in a final project and will assist in actual managerial tasks.</td>
<td></td>
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<tr>
<td>TH 322</td>
<td>ADVANCED COSTUME DESIGN</td>
<td>3-9</td>
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<tr>
<td>Prerequisite</td>
<td>TH 206, TH 207</td>
<td></td>
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<tr>
<td></td>
<td>This course will guide the student through the steps required to design the costumes for a variety of plays, based upon the careful reading and analysis of a number of scripts. Continued practice in drawing and rendering techniques will be stressed. May be repeated for up to 9 hours credit.</td>
<td></td>
</tr>
<tr>
<td>TH 325</td>
<td>THEATRICAL DESIGN SEMINAR</td>
<td>3</td>
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<tr>
<td>Prerequisite</td>
<td>TH 316 or TH 317 or TH 322</td>
<td></td>
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<td></td>
<td>An in-depth study of trends and standard practices in theatrical design. Students create and develop a complete design package for a theatrical performance, producing the appropriate renderings, models, and paper work for the project. The materials generated are included in their portfolios. Emphasis is placed on advanced visual analysis of the play, presentation of the projects, and artistic skills. Repeatable up to 9 hours, but only three hours count toward the major.</td>
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<tr>
<td>TH 404</td>
<td>MODERN DRAMATIC STYLES</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>TH 204; 2 from TH 418, 419, 420</td>
<td></td>
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<tr>
<td></td>
<td>How have the events of the 20th century influenced drama and performance? How have theatre artists responded to the events of the 20th century? The social, cultural, political, and technological events of the 20th century have inspired numerous styles and movements in theatre. This course examines the drama, performance styles and theories for the early Modern Period through the present.</td>
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TH 405  MUSICAL THEATRE PERFORMANCE  3
**Prerequisite**  TH*211, MUSIC*212, 2 semesters of MUSIC*140

A workshop course in which students examine the craft and technique of acting a song. Students will prepare musical theatre selections and create an audition portfolio. Healthy vocal performance habits and physicalization are discussed. Various methods of analysis are used for the interpretation of songs from the musical theatre.

TH 410  STAGE MOVEMENT & DANCE VI  1
**Prerequisite**  TH*211

Capstone of the series and stresses the performance aspect. Students continue to take one ballet class per week and one dance class of their choice per week. The student must participate in a dance concert either as a dancer or as a choreographer. This requirement is arranged as the student reaches the proper level of training and the particular form of the assessment will be reached in consultation with the faculty. May be repeated once.

TH 411-412  DIRECTING I AND II  3-3
**Prerequisite**  TH*211 or TH*212; TH*411 must precede 412.

A study of the functions of the director as an administrator, interpreter and artist. Attention will be given to the director's relationship with the playwright, the actor, the technical staff and audience. During the second semester, each student will select, cast and direct a one-act play for workshop performance.

TH 418-420  HISTORY OF THEATRE I-II-III  3
**Prerequisite**  TH*204

A survey of the periods, practices and theories of the theatre. First semester covers ancient Greeks to the Elizabethan Period. Second semester covers the Elizabethan to end of the nineteenth century. Third semester covers Modern Drama to the present day.

TH 425  STAGE MANAGEMENT  3
**Prerequisite**  None

This course is an investigation of the role of the stage manager in the theatrical production. Students will explore all of the organizational and communication skills needed to excel in this position. Course will culminate in both a written and practical exercise of skills.

TH 499  SENIOR PROJECT  3
**Prerequisite**  Senior standing, approval of advisor, and prior approval of a prospectus by faculty one semester in advance of registration

An activity that integrates the student's theatrical experiences and studies at A.U. The project should be of great interest to the student and should provide sufficient depth and rigor to help guide the student to the next professional or academic step. The student conceives, creates, and presents theoretical or executed theatrical productions as part of the requirements for graduation.
### Applied Music Courses and Information

<table>
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<tr>
<th></th>
<th>Non-Major</th>
<th>Minor</th>
<th>Secondary</th>
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<th>Major Jr/Sr</th>
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<td>Organ</td>
<td>122a</td>
<td>142a</td>
<td>242a</td>
<td>342a</td>
<td>442a</td>
<td>332a</td>
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<td>Harpsichord</td>
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<td>442b</td>
<td>332b</td>
<td>452b</td>
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<td>Flute</td>
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<td>243a</td>
<td>343a</td>
<td>443a</td>
<td>333a</td>
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<td>Oboe</td>
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<td>143b</td>
<td>243b</td>
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<td>333b</td>
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<td>Clarinet</td>
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<td>333c</td>
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<td>333d</td>
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<td>453e</td>
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<td>Jazz improv.</td>
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<td>143j</td>
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<td>n/a</td>
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<td>n/a</td>
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<td>Trumpet</td>
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<td>Horn</td>
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<td>Baritone</td>
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<td>244e</td>
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<td>334e</td>
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<tr>
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<td>144j</td>
<td>243j</td>
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<td>n/a</td>
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<td>Percussion</td>
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<td>347</td>
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Faculty Awards

Trustees’ Distinguished Professor

Ashland University Board of Trustees honors very select professors with the title and position of Trustees’ Distinguished Professor. The election of an Ashland University faculty member to this position brings honor to the individual, the profession of teaching, the faculty in general, and the University. This honor is to be worn with academic dignity as a leader among faculty and students. This position should allow and encourage the faculty member to advance the profession of teaching, accomplish special research and writing, and exhibit leadership in the faculty and in higher education in general. This person should believe and exemplify that the education of the mind and heart of each student is the epitome of civilization. The Trustees’ Distinguished Professor must at all times uphold the mission and purpose of Ashland University.

The selection for this position shall be by a Trustees’ Distinguished Professor Committee composed of the Chair of the Board of Trustees, a representative from the Academic Affairs Committee of the Board of Trustees, the President of the University, the President of the Faculty Senate, and the Provost.

Academic Mentor Recognition

The award is given annually to selected faculty/staff members who have stimulated the personal growth and academic development of Ashland University students by their contributions beyond the classroom experience. Senior undergraduates and graduate students who have completed 75% of their program are invited to nominate an individual faculty member, staff person, or academic administrator for the Mentor Award. Judges for this award are the Academic Affairs Committee of the Board of Trustees, and they make the selection based on blind review of nominees and candidates. The maximum number of Mentor Awards made each year is eight, of which no more than two may be adjunct faculty.

Taylor Excellence in Teaching Award

By mission, AU is a teaching university that supports the development of teacher-scholars among its faculty.

Through a gift by Mr. and Mrs. Ed Taylor, this annual award is given to a faculty member to recognize in-class and outside-of-class teaching excellence. Faculty are nominated by students, faculty or department chairs. Nominations consist of a one-page letter citing specific examples of exemplary teaching. Nominated teachers who intend to be considered in the next round of reviews are asked to supply all student evaluations (numerical and written) for the past two calendar years and provide a statement of their teaching philosophy which is submitted to the Provost’s Office. A Committee consisting of previous Taylor Excellence in Teaching Award winners will review the submitted materials and narrow the applications down to three finalists. The Committee will make an announced classroom visit to observe each of the three finalists in teaching. Based on the teaching evaluations and the other supporting material, the committee will determine the award winner. The recipient will receive a medal to be worn with regalia and a stipend of $5000.00 at the annual Academic Honors Convocation. The recipient will speak at that convocation on the importance of teaching and learning in higher education and will conduct a session on effective teaching at the Winter Faculty College. Honorable Mention certificates will be awarded to the two finalists who were not selected.

Ashland University Excellence in Scholarship Award

The Ashland University Excellence in Scholarship Award recognizes AU faculty who have demonstrated outstanding scholarship. All Ashland University faculty who have completed their Third Year Review may be nominated for the Award. Faculty, department chairs or deans may submit letters of nomination to the Provost’s Office. Nomination shall consist of a nomination letter citing specific examples of outstanding scholarship. The Provost shall contact the nominated faculty to verify their interest and require additional material to include: a complete vita, a statement that describes the impact of scholarship in the field, three letters of recommendation from internal or external sources. Letters of recommendation may not come from the selection committee. A committee consisting of the Provost or representative and four faculty members who have been named Trustees Distinguished Professors will review submitted materials and narrow the application to three finalists. Based on the submitted materials and the review of external experts, the Committee will select an award winner. The recipient will receive a medal to be worn with regalia and a $5000.00 honorarium. Honorable Mention certificates will be awarded to the two finalists who were not selected.
### Personnel

#### Board of Trustees
Dr. Carlos Campo, President

#### Officers of the Board
Joyce A. Lamb, Chair  
Fred B. Broad  
Gary L. Courtright  
Thomas H. Pickering

#### Term Expiring 2016
Fred B. Broad, At Large  
David M. Bush, Ashbrook  
Daniel R. Coffee, At Large (Church)  
D. Rex Elsass, At Large  
Arden E. Gilmer, At Large (Church)  
Wayne R. Girbach, At Large (Church)  
Brooks G. Hull, At Large  
G. Emery Hurd, At Large (Church)  
Billie Anne Massie, At Large (Church)  
Paul E. McKnight, At Large  
Lisa O. Miller, At Large  
John D. Moore, At Large (Church)  
Mitchell P. Zunich, Alumni Association

#### Term Expiring 2017
Ronald B. Alford, At Large  
Mark E. Camp, At Large  
Gary L. Courtright, At Large (Church)  
Kevin L. Doss, At Large (Church)  
Patricia M. Gravatt, At Large (Church)  
Dustin J. Ness, At Large  
Vaughn L. Nickell, At Large (Church)  
Thomas H. Pickering, At Large (Church)  
Timothy L. Solomon, At Large (Church)  
Dale R. Thomae, At Large (Church)  
Thomas Whatman, Ashbrook  
Charles A. Wiltrout, At Large (Church)  
Robert G. Ward II, At Large

#### Term Expiring 2018
Thomas A. Aurandt, At Large (Church)  
Christopher D. Boyd, At Large (Church)  
Brenda K. Dean, At Large  
Charles H. Gamble, Jr., At Large (Church)  
L. Jonathon Groza, At Large  
James H. Hess, At Large (Church)  
Deborah Liebert Karl, At Large  
David B. Krill, At Large  
Joyce A. Lamb, At Large (Church)  
P. Thomas Murray, Jr., At Large (Church)  
Jeff Payton, At Large  
Alan D. Roth, At Large

#### Presidents of Ashland University
- Elder S. Z. Sharp  
- Elder Robert Miller  
- **Rev. J. E. Stubbs**  
- **Rev. Elijah Burgess**  
- *Rev. Frank Hixson*  
- *Rev. A. E. Winters*  
- *Rev. W. C. Perry*  
- *Mr. William Felger*  
- Rev. J. M. Tombaugh  
- Rev. D. C. Christner  
- *Mr. C. W. Mykrantz*  
- **Rev. J. M. Tombaugh**  
- Dr. S. S. Garst  
- Dr. J. A. Miller  
- **Rev. J. C. Mackey**  
- Dr. J. A. Miller  
- Rev. John L. Gillin  
- Dr. W. D. Furry  
- Dr. Edwin E. Jacobs  
- Dr. C. L. Anspach  
- Dr. E. G. Mason  
- Dr. R. W. Bixler  
- Dr. Glenn L. Clayton  
- Dr. Arthur L. Schultz  
- Dr. Joseph R. Shultz  
- Dr. Walter Waetjen  
- Dr. G. William Benz  
- Dr. Frederick J. Finks  
- Dr. William C. Crothers  
- Dr. Carlos Campo

*Principals **Nominals

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Academic Chairs at Ashland University

A. L. Garber, Chair in Economics
Robert S. Jepson, Jr., Chair in Business Administration
Fred & Alice Lennon Director's Chair, The Ashbrook Center
Christine J. Mishler, Chair in American History & Govt., Ashbrook
Elizabeth M. Mitchell, Dean's Chair, College of Arts and Sciences
Elizabeth M. Mitchell, Dean's Chair, Dauch College of Business/Economics
Burton D. Morgan, Chair in Business Enterprise
Eloise Ridgeway Noonan, Chair in Family and Consumer Sciences
Warren Rupp, Chair in Business Management
Louaine S. Taylor, Chair in American History & Government
Hugo and Mabel Young, Chair for the School of Nursing

Chairs in Process

Thomas and Mabel Guy, Chair in American History & Government
Dr. Charles D. and Dr. Donna Messerly, Chair in Recreation
Edward and Louise Peterson, Chair in American History & Govt.
William C. Zekan/Schulman, Chair in Business Administration

Cabinet

CAMPO, CARLOS 2015
President
B.A., M.A., Ph.D., University of Nevada, Las Vegas

FIORE, DOUGLAS J. 2014
Interim Provost
B.A., Hofstra University; M.S., Purdue University; Ph.D., Indiana State University

POMFRET, MARGARET 1998
Vice President, Development and Institutional Advancement
B.A., Ashland University

SHULTZ, JOHN C. 1981
Vice President, University; President of the Seminary
B.A., Ashland University; M.Div., Ashland Theological Seminary; Ph.D., Purdue University

STORCK, STEPHEN 2013
Vice President for Finance and Administration
B.S., King's College; M.B.A., York College; Ph.D., Ohio University

VAN LOO, SCOTT 2011
Executive Vice President, Enrollment Management and Marketing
B.A., Cedarville University; M.A., Wright State University; Ph.D., The University of Dayton

Deans

BILLMAN, LINDA K. 1997
Interim Dean, College of Education, Associate Professor of Education
B.S., The Ohio State University; M.Ed., Ashland University; Ph.D., University of Akron

GRUND, FAYE 2010
Dean, Schar College of Nursing and Health Sciences
B.S., M.S., Virginia Commonwealth University; APRN, University of Akron; Ph.D. Duquesne University

HUPFER, MICHAEL L. 1979
Associate Dean, College of Arts and Sciences
B.A., Earlham College; M.A., Indiana University; Certificate in Applied Linguistics (TESOL), Indiana University

JACOBS, RAYMOND A. 1990
Associate Dean, Dauch College of Business and Economics; Chair, MBA Program; Professor of Management
B.A., College of William and Mary; M.S., Ph.D., University of North Carolina

MOSEMAN, CINDY C. 1988
Assistant Dean, College of Arts and Sciences, Assistant Professor of Family and Consumer Sciences
A.A., Anderson College; B.S., M.S., The Ohio State University; Ph.D., Kent State University

RUSSELL, JEFFREY E. 2000
Dean, Dauch College of Business and Economics
B.S., University of California at Davis; M.M., Northwestern University; Ph.D., University of Oregon

WEBER, DAWN 2008
Dean, College of Arts and Sciences
B.S., M.A., Central Michigan University; Ph.D., Bowling Green State University

Faculty

ABREU-ELLIS, CARLA 2007
Associate Professor of Education
B.S., University of Toronto; M.Ed., Ph.D., Bowling Green State University

ADAMS, BONNIE K. 1989
Associate Professor of Education
B.S., M.Ed., Ph.D., Kent State University; M.S., Carnegie-Mellon University
AJWA, IYAD A.  1997
Chair, Department of Mathematics and Computer Science; Professor of Computer Science
B.S., University of Jordan; M.S., Lehigh University; Ph.D., Kent State University

ALSTON, JUDY  2007
Chair, Department of Leadership Studies and Educational Administration; Professor of Education
B.A., Winthrop College; M.Ed., University of South Carolina; Ph.D., Pennsylvania State University

ARNOLD, PENNY  1996
Associate Professor Education
B.S., M.S., Ph.D., University of Akron

ARTHUR, MATTHEW L.  1985
Professor of Chemistry
B.S., University of New Mexico; M.S., Ph.D., New Mexico State University

AUNE, DAVID C.  1996
Associate Professor of Religion
B.A., University of Vermont; M.Div., Gordon-Conwell Theological Seminary; Th.M., Regent College; Ph.D., Brown University

AVTGIS, THEODORE A.  2011
Chair, Department of Communication Studies; Professor of Communication Studies
B.S., Emerson College; M.A. Emerson College; Ph.D. Kent State University

BENSAID, MOSHINE  2013
Professional Instructor of ACCESS
B.A., Dennison University, M.A., Kent State University

BERGOSH, ROBERT  2005
Associate Professor of Chemistry
B.S., Kentucky Wesleyan College; Ph.D., University of Kentucky

BERRYMAN, JERI  2013
Clinical Assistant Professor of Nursing
A.D., Regents College, B.S., Ohio State University, M.S., Indiana Wesleyan University

BILLMAN, LINDA K.  1997
Interim Dean, College of Education, Associate Professor of Education
B.S., The Ohio State University; M.Ed., Ashland University; Ph.D., University of Akron

BIRD, MICHAEL  2015
Professional Instructor of Art
A.A., Butler County Community College; B.F.A., Emporia State University; M.F.A., University of Kansas

BLACKLEY, ROWLAND F.  1997
Director, Choral Activities; Professor of Music
B.S., Concordia College; M.M., Kent State University; D.M.A., University of Colorado

BONFIGLIO, DIANE B.V.  2009
Associate Professor of Psychology
B.S., Ashland University; M.A., Ph.D., The Ohio State University

BRAUNER, SOREN  1986
Professor of Biology
B.A., M.A., University of California at Santa Barbara; Ph.D., University of California at Davis

BRENNAN, KATHLEEN M.  1984
Associate Professor of Accounting
B.A., Miami University; M.A., Bowling Green State University; C.P.A., Ohio

BRIAN, ROBIN  2015
Assistant Professor of Nursing
B.S., M.S., Ph.D., Kent State University

BROOKS, LATINA  2013
Associate Professor of Nursing
B.A., M.S., Ph.D., Case Western University

BROWN, LINDA JOYCE  2006
Associate Professor of English
B.A., University of Washington; M.A., University of Oregon; Ph.D., University of New Mexico

BRUBAKER, KENNETH D.  2010
Assistant Professor of Sport Management
B.S., Canisius College; M.Ed., Ed.D., Ashland University

BRUSH, NIGEL  1999
Professor of Geology
B.A., Cincinnati Bible College; B.A., M.A., The Ohio State University; M.A., University of Southampton, England; Ph.D., University of California at Los Angeles

BURKETT, CHRISTOPHER  2005
Associate Professor of Political Science
B.A., Ashland University; M.A., Ph.D., University of Dallas
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<td>BURTON, FREDERICK</td>
<td>Associate Professor of Education</td>
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<td>BUTKE, MARLA A.</td>
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<td>CAO, PAUL</td>
<td>Associate Professor of Computer Science</td>
<td>2008</td>
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<td>CHAPPELL, CATHRYN</td>
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Emeriti 
Akers, Eric 2008
Allen, Carl* 2003
Bixler, Beverly 1983
Broda, Herb 2015
Brown, P. Thomas 1995
Brown, Susan 2007
Brueggeman, Martha 2007
Cadley, Donald 1999
Caldemeyer, Charles 2015
Chai, Jae 1998
Craig, Russell 2015
Dence, Thomas 2015
Dewey, Stanley* 1982
Drushal, Mary Ellen 2006
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Edlefson, Carla 2015
Edwards, Patricia 2014
Ferroni, Charles 2000
Flanagan Hudson, Kathy 2013
Fleming-Dufala, Louise 2015
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Froelich, Robert* 1984
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Goodwin, Ric 2014
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Gregersten, Andrew 1979
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Parking Areas (A-P)

Smith Road
To Sarver Athletic Complex & Donges Field (see inset)

Garmon Avenue

King Road

Claremont Avenue

Grant Street

To Ashland Theological Seminary

College Blvd.

Park Street

High Street
To Ashland Theological Seminary

College Avenue

Jefferson Street

Davis Street

Fairbanks Street

Broad Street

Moss Hill

Keen Avenue

Katherine Avenue

Handicap Parking

N

I

S

P

MN

O

R

H

G

J

L

K

Ashland University

Amstutz Hall 24
Andrews Hall 25
Center for the Arts 2
Center for Humanities 14
Claremont Building 36
Clark Hall 13
Clayton Hall 9
College Avenue Apartments 39
Conard Field House 32
Donges Field 38
Dwight Schar Athletic Complex 34
Dwight Schar College of Education 5
Eagle Ridge Manor 25
Facilities Offices 19
Founders Hall 1
Fraternity Houses 21
The Gill Welcome Center/Office of Admission 17
Hawkins-Conard Student Center 20
Intramural Fields 33
Jack & Deb Miller Chapel 16
Jacobs Hall 7
John Ashbrook Center for Public Affairs 15
John C. Myers Convocation Center 26
Kates Center for Family & Consumer Sciences 3
Kern Hall 27
Kettering Science Center 4
Kilbener Hall 11
Library 15
Myers Hall 10
Patterson Instructional Technology Center 12
Physical Education Center;
Kates Gymnasium 30
Recreation & Rybolt
Sport Sciences Center 29
Redwood Hall 9
Richard L. & Sandra J. Dauch College of Business & Economics;
Burton D. Morgan Center for Entrepreneurial Studies 18
Rinehart Center for Religious Studies 15
Sarver Athletic Complex 27
Senior Apartments 6
Senior House 20
Trope Center 35
Tennis Courts 22
Wurster Fitness Center 31