

# Muskingum University Academic Catalog

## ACADEMIC POLICY AND PROCEDURES

### Academic Credit and Class Standing

Academic credit is expressed in terms of semester hours. A student's classification is determined by the number of credit hours completed toward graduation. The minimum number for each classification is: sophomore–28, junior–60, and senior–92.

### Academic Dishonesty, Plagiarism

Plagiarism, cheating, and other forms of academic dishonesty are serious offenses at Muskingum University, and the faculty member has the prerogative of invoking the severest penalty for an initial offense. Each department is responsible for developing its definition of plagiarism, but in general, plagiarism is the verbal, written, graphic, or three-dimensional presentation of borrowed material without citing its source. Students must cite the source for quotations, paraphrases, borrowed ideas, models, information, or organization of material. Students who are uncertain about the need for citation should consult the faculty member for whom the work is being prepared. For a first offense, the minimum penalty for plagiarism and/or cheating is a failing grade on the assignment, paper, or examination; the maximum penalty in this instance is a failing grade in the course. In either case, the faculty member should submit a written report of the offense to either the Office of the Provost or the Office of the Vice President for Graduate and Continuing Studies as appropriate. The student guilty a second time may be suspended or expelled from the University. Plagiarized work is filed in the office of the Provost or the Office of the Vice President for Graduate and Continuing Studies as appropriate. A grade given for academic dishonesty shall supersede any withdrawal. See additional information under “Order of Appeal.”

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

### Academic Honors & Dean's List

At the end of each semester, the University publishes an honor roll, known as the Dean's List, containing the names of undergraduate degree-seeking students who earned a semester GPA of 3.60 or above on a minimum load of 12 completed

semester hours (PLUS student minimum is 10 hours) of A-F graded coursework.

Each spring, traditional degree-seeking students who have distinguished themselves academically are honored at the Scholarship Recognition Program. Awards are made to the students in the highest five percent of each class provided they meet the following criteria: have a cumulative grade point average of 3.6 or better on all work including post secondary, with the exception of approved off-campus study as a Muskingum student (such as Washington Semester and study abroad); have completed at least 12 semester hours of A-F graded coursework in the preceding semester (PLUS student minimum is 10 hours); are enrolled full-time (including approved off-campus study) in the spring semester.

First, Second, Third, and Fourth-year awards are determined in the following manner:

- First Year Award (bronze recognition) is given to students who are ranked in the top five percent (5%) of their class for the first time.
- Second Year Award (silver recognition) is given to students who are ranked in the top five percent (5%) of their class for the second time.
- Third Year Award (gold recognition) is given to students who are ranked in the top five percent (5%) of their class for the third time.
- Fourth Year Award (student name is inscribed on a plaque located outside the President's Office) is given to students who are ranked in the top five percent (5%) of their class for the fourth time.

Three classes of honors are conferred at graduation: cum laude, to those with cumulative minimum grade point averages of 3.4; magna cum laude, minimum 3.6; and summa cum laude, minimum 3.8. All post-secondary work must meet these standards, with the exception of approved off-campus study as a Muskingum student (such as Washington Semester and study abroad). A Latin Honors GPA cannot be higher than the GPA earned at Muskingum. With the exception of approved off-campus study as a Muskingum student, grades earned elsewhere will lower but not raise the Latin Honors GPA, even if the courses for which the grades were earned were not applied by transfer to the Muskingum record. To be eligible for honors designation, students must have completed all degree requirements. Students completing second baccalaureate degrees are also governed by this policy.

The student with the highest cumulative GPA who qualifies for summa cum laude recognition will be designated valedictorian. The student with the second highest GPA who qualifies for summa cum laude recognition will be designated salutatorian.

## **Academic Standards Policy**

Muskingum University students are expected to maintain a minimum semester and cumulative GPA of 2.0. The term “semester” refers to the most recently completed semester; the term “cumulative” refers to all work completed at Muskingum University.

## **Academic Probation**

A student whose semester and/or cumulative GPA falls below 2.0 will be placed on academic probation.

The notation “Academic Probation” will be marked on the student’s transcript for the semester(s) in which the GPA is below 2.0 except in the following situation: the semester GPA is at least 1.5 and it is the first time that the student’s GPA has fallen below 2.0 and (if established) the cumulative GPA is at least 2.0.

To avoid academic probation, a full-time student must achieve a 2.0 semester and cumulative GPA with completion of a minimum of 12 credit hours; a part-time student or a student attending Muskingum University May Term must achieve the same with completion of at least six credit hours.

The Getting Prepared Academically Program and the Study Center provide support through tutoring, learning skills courses, and other special services for students who need assistance to succeed academically. A student who is on academic probation may be required to participate in the Getting Prepared Academically Program.

The probationary student is required to consult regularly with his/her advisors and course instructors.

## **Notification\***

The student will receive notice of his/her academic probation status and its accompanying requirements and restrictions from the Provost or the Vice President of Graduate and Continuing Studies as appropriate. A copy of the notice will be sent to the parents or guardians of dependent students and to the student’s academic advisor(s).

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## **Restrictions**

A student who is on academic probation may not enroll for more than 17 hours. On the recommendation of the student’s academic advisor, adjustments may be made in the student’s course load.

## **Academic Dismissal**

An undergraduate student on probation whose semester GPA remains below 2.0 at the conclusion of the next semester and whose cumulative GPA is also below 2.0 is subject to dismissal. A student who does not earn a GPA of at least 1.5 in any semester is subject to dismissal.

An undergraduate student may appeal the dismissal to the Academic Standards Committee. This committee, consisting of the Provost and the Dean of Students (or their designated representatives) and at least three faculty members, meets in early January for fall dismissals and in May for spring dismissals. Among the criteria considered by the Academic Standards Committee is the reasonable expectation that students who appeal will be able to graduate. In order to demonstrate satisfactory progress toward graduation, seniors are expected to maintain a cumulative GPA of at least 1.9, juniors at least 1.8, sophomores at least 1.5, and first-year students at least a 1.2 cumulative GPA by the end of their second semester.

A student who is dismissed will be denied enrollment in classes, (including study abroad), participation in campus activities and University residency.

### **Readmission\***

Application for readmission of a student dismissed for academic reasons will be considered only after a minimum of one semester following dismissal. Readmission is usually contingent upon successful completion of one to two semesters of college-level coursework at another institution.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## **Advising**

New first-year students are assigned to faculty or staff advisors through the First-Year Program. These advisors provide counsel and assistance in academic and social acclimation and arranging course schedules. Students are required to declare a major no later than the middle of the second semester of their sophomore year. Once a student declares a major, he/she is then reassigned to a faculty advisor who teaches in that major.

## **Affiliate Programs**

Muskingum University offers students the opportunity to earn academic credit from other institutions through its affiliate programs. These programs are typically focused toward a particular academic or internship experience for which the off-campus institution offers a specialization that cannot be obtained on campus. Following is a description of the programs for which Muskingum has affiliate agreements. Students participating in these programs are generally considered to be enrolled at Muskingum University.

On receipt of an official transcript from an affiliate program, credit will be awarded for all pre-approved coursework in which a passing grade has been assigned. Letter grades, but no equivalent quality points, will be assigned to transfer work. With the exception of calculations for Latin Honors and Dean's List, neither term nor cumulative grade point average will be affected by transfer work from affiliate programs.

**Speech Pathology and Audiology** emphasis is available through an agreement with Kent State University. A bachelor's degree from Muskingum with this emphasis provides students the opportunity to enter the graduate program in Speech Pathology or Audiology at Kent State University.

**Study Abroad/International Study** provides the opportunity for sophomores, juniors and seniors to study for one or two semesters at a foreign university through Muskingum's exchange programs. Formal student-exchange agreements exist between Muskingum University and institutions in Asia, Canada, Europe, and South America. In most cases there is no extra fee for participation in these exchange programs. Students interested in study abroad should consult the Coordinator of Study Abroad for further information. To make certain that their programs of study satisfy Muskingum's requirements, students must have their programs approved by the Coordinator of Study Abroad. Study abroad opportunities outside of those already established at Muskingum are also possible, as are short-term study abroad programs.

**Washington Semester** is available through a cooperative arrangement with American University in Washington, D.C. It offers students in-depth experiential learning in their choice of a dozen areas of study including American politics, international relations, justice and law, journalism, international economics and business, public health, and more. The curriculum includes a full-time academic schedule (8-12 hours) and an internship in the heart of the nation's capital (4 hours).

## Attendance Policy

The academic program of Muskingum University operates on the assumption that learning is advanced by regular attendance at class and laboratory.

It is the responsibility of the student to arrange to make up, at the convenience of the instructor, class assignments or previously scheduled quizzes and/or exams missed due to absence. Timely (at least one week in advance) notice to professors when absence will be unavoidable is expected. No instructor may deny a student the opportunity to make up coursework missed because of bona fide medical, personal or family emergency, or, when timely notice is received, because of previously scheduled participation in institutionally sanctioned activities.

Individual faculty members determine their own class attendance policy in accordance with the preceding paragraph. At the beginning of each semester, the faculty member is responsible for informing students of his/her attendance policy or expectations and of the consequences or penalties for excessive non-sanctioned absences. The faculty member must define "excessive."

# Auditing Courses

Auditing is subject to space availability. For full-time traditional students, there is no charge to audit, but permission must be received from the Registrar, the faculty advisor, and the course instructor. The decision to audit a class must be on file with the Registrar by the end of the add/drop period and cannot be changed. Non-attendance results in a grade of W. Those over 62 years of age may audit a course under the same regulations. Part-time students are charged a fee to audit.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

\*\*Graduate students should refer to the Graduate Catalog.

# Catalog of Entry

Undergraduate students who complete graduation requirements in four years are under the catalog in effect at the time of first enrollment. Students may elect to meet the graduation requirements of a later catalog, subject to guidelines of professionally-accredited disciplines.

Students who do not meet graduation requirements within seven calendar years of first enrollment must meet the requirements of the catalog in effect at the time of graduation or of a catalog published no more than four years earlier than the time of graduation.

# Commencement Policy

Seniors planning to graduate must apply no later than 8 weeks prior to the date of Commencement. Students who fail to apply by this deadline may incur additional fees and/or may not be permitted to participate in commencement exercises. The Application to Graduate is found on Muskie Link.

Students with more than 4 hours but fewer than 12 hours of coursework left to complete at the time of Commencement may petition the Provost or the VPGCS, as appropriate, to participate in commencement ceremonies. Petitions must be submitted to the Provost or VPGCS, as appropriate, at least 3 weeks prior to Commencement and will be considered on a case-by-case basis.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

# Course Repeat Policy

A student may repeat a course once if the original grade is a C- or lower and provided it is repeated at the next offering, or provided that no more than one intervening course has been taken in the discipline offering the course. A course may be repeated only one time. When a course is repeated, both grades remain on the record but only the most recent grade is used in computing the grade point average unless the most recent grade is I, WIP, or W. While the grade for a repeated course erases the GPA calculation that may have been the basis for decisions about academic standing such as probation, dismissal, or Dean's List, those decisions are not affected by the recalculation. Students cannot receive credit twice for any course repeated to replace a grade.

## Course Withdrawals

Students may withdraw from full semester courses through the 50th day of the semester, and from partial semester offerings until the course is three-fourths completed. Withdrawals are not permitted after the specified time.

The process for course withdrawal is initiated in the Registrar's office. The signature of the instructor is required on the course withdrawal form. That signature constitutes acknowledgment of a student's withdrawal, not necessarily permission to withdraw.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Full Time Status

The minimum semester load for a full-time student is 12 semester hours; the maximum load is 20 hours. Students with less than a 3.0 cumulative GPA must petition the Provost to register for more than 17 hours no later than the second week of classes. Full-time status is determined at the end of the add/drop period, after which time course withdrawals have no effect on full-time status with regard to charges for tuition and fees. Full-time status is required, however, for participation in a sport. Other areas of extra-curricular and co-curricular activities may also be impacted.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Grade Point Average

Your semester grade point average (GPA) is calculated by dividing the total amount of grade points earned (grade equivalent quality points times credit hours for the course) that semester by the total amount of graded credit hours attempted that semester. Your grade point average may range from 0.0 to a 4.0. P/NP (Pass/No Pass) courses are not factored in the GPA. The following marks do not receive grade points and do not have an effect on the GPA: I, WIP, S, U, W, L, and NR.

To calculate your cumulative GPA, total the graded credit hours and then the grade points from all semesters. Divide the total grade points by the total credit hours.

Students who have been readmitted to Muskingum after seven calendar years from their previous enrollment may choose not to carry the cumulative GPA from the prior enrollment.

## Grading Policy

Grades are assigned on a scale ranging from A, excellent, to F, failing. The grades' equivalent quality points are: A, 4.00; A-, 3.67; B+, 3.33; B, 3.00; B-, 2.67; C+, 2.33; C, 2.00; C-, 1.67; D+, 1.33; D, 1.00; D-, 0.67; and F, 0.00. Other grades are WIP, for work in progress; I, incomplete; S, satisfactory (C- or above); U, unsatisfactory (D+ or below); W, withdrawn; L, audit; and NR, not reported.

The grade of work in progress (WIP) is given in a course where work has been recognized as requiring research, study or participation beyond the normal limits of a semester. It may be used for departmental senior studies (400-level courses), for courses involving outside observation hours or for students in the PLUS learning disabilities program.

An Incomplete (I) indicates that unusual personal or technical circumstances, including illness and family emergencies, have prevented the student from completing course requirements.

Except in extraordinary circumstances failure to complete the required work by the last day of the immediately subsequent semester reduces the WIP or I to an F. No student is awarded a degree with a record which includes a WIP or an I.

\*Graduate students should refer to the Graduate Catalog.

## May Term & More (Traditional Undergraduate Summer Term)

Muskingum's undergraduate summer program, offers a broad selection of courses in a variety of delivery formats, including classroom-based, online, and blended learning. Students may also select from a range of scheduling formats starting with the intensive 4-week May session and continuing throughout the summer with 10-week, 5-week and 1-week courses. May Term & More classes are open to all Muskingum students as well as students from other schools who are in the area during the summer.

## Order of Appeal



Faculty members are responsible for outlining grading policies to students at the beginning of each course. If students believe they have received a wrong grade on an examination or for a course, the initial step is to discuss the grade directly with the faculty member teaching the course. If that step does not result in a satisfactory explanation or resolution of the perceived problem, the student may bring the matter to the attention of the department chair. The next person in the line of appeal, should the student continue to contest the grade and wish to pursue an appeal, is the division chair. Should the person to whom the student would bring the appeal in this process also be the faculty member in whose course the grade is being questioned, that person has no jurisdiction over the appeal. In the latter case, the Provost or the Vice President for Graduate and Continuing Studies, as appropriate, will call on an appropriate faculty member from the department or related department in the division to review the circumstances and make a recommendation to the Provost, who will be the final arbitrator in any such appeal.

The same process detailed above applies to disputes over alleged plagiarism or other cases of academic dishonesty, although the student may appeal the decision of the Provost to the President. The maximum penalty for the first instance of academic dishonesty is failure of the course; for a second, expulsion from the University.

Students judged guilty of violating library regulations may appeal to the Director of the Library and to the campus Judicial Board.

A student who believes that a faculty member has acted in an unprofessional manner can bring a charge of unprofessional conduct to the faculty's Professional Relations Committee. The committee, which functions to protect the full rights of all parties concerned, will try to determine whether the charges should be sustained. The hearing is private; both parties have the opportunity to be heard in their own cause, and the faculty member personally selects advisors. A full stenographic record of the hearing is taken and made available to both parties. Either party may request the testimony of other instructors or students when it can be shown that these persons have access to facts that bear on the case. At the conclusion of the hearing, the committee renders its judgments and recommendations in writing to the parties concerned. Written copies of the Committee's judgment and recommendation shall be placed in the files of both parties in the office of the Provost.

## **Pass/Fail Option**

### Pass/Fail Option

Under the Pass/Fail Option, a junior or senior may take two courses per year for credit outside the major or minor and the University's General Education Requirements without having the grade count toward the cumulative grade point average. The student must have a GPA of 2.00 or higher and permission from the Registrar, the faculty advisor, and the course instructor. Only S (pass) or U (fail) grades are given. The decision to take a course on the Pass/Fail Option must be declared by the end of the add/drop period and cannot be changed after the add/drop period. The limit of courses taken under the Pass/Fail Option does not include courses designated exclusively S/U.

# Registration

New students entering in the fall are scheduled for classes during the summer; new students entering in the spring are scheduled for classes beginning in early December. Continuing students schedule their classes for the next semester in the latter part of the current semester. Changes (add/drop) may be made to schedules at any time until the end of the fifth day of class.

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

# Second Baccalaureate Degree

To obtain a second Bachelor's degree in a major different from that of the first degree conferred, a student must:

1. Develop an appropriate plan of study comprised of at least 30 semester hours of courses that do not duplicate those constituting the major(s) of the first degree.
2. Obtain approval of the plan of study from the department of the proposed new major, and the Provost.
3. Successfully complete at least 30 semester hours in residence at Muskingum University beyond the first degree, including a capstone experience and half of the hours for the major.
4. Earn a grade point average of 2.00 or above must be earned for all coursework presented in the new program. Some areas or majors may require a higher GPA for graduation.

# Senior Studies

Senior Studies provide a capstone experience for seniors in their major field of study. Through a seminar (an individual study or an advanced field experience), students learn to use bibliographic and research techniques and sources applicable to their chosen discipline; integrate earlier course work into a coherent pattern; engage in an extensive writing experience; gain experience in oral communication; develop independence, self-reliance and creativity; and explore a topic in depth.

# Special Programs

The Center for Regional Planning and Development offers students the opportunity to work with faculty to gain experience solving real-world problems in regional development. Areas of focus include administration, business, the environment and education. The Center provides southeastern Ohio communities with low-cost solutions, and serves as a laboratory for students to apply to real-world problems what they have learned in the classroom.

Directed Study\* permits students, under special circumstances, to enroll in an existing course at an alternative time to the class schedule. This requires a course contract with a cooperating faculty member and approval by the Provost. The contract specifies required meeting times, readings, writing assignments, studio, or laboratory work. Only students who have earned 60 credit hours are eligible to take courses by directed study. Students may register for directed study courses through the fourth week of the semester. Additional fees may apply.

\*Adult undergraduate degree completers should consult the MAP Guidebook.

First-Year Seminar The First-Year Seminar course provides entering first-year students with a common academic experience during their first semester. Muskingum's primary purpose is to develop the "whole person"; in keeping with this mission the course offers an extended orientation to the institutional environment and is designed to create a successful transition to the academic expectations and campus life of the institution. The course, which is required of all first-time, first-year students, includes a significant advising component and introduces students to academic and student services resources.

Interdisciplinary Majors draw on offerings in various departments. Students may elect an already established interdisciplinary major in American Studies, Animal Studies, Athletics Communication, Conservation Science, Criminal Justice, Child and Family Studies, Digital Media Design, Environmental Science, Humanities, International Affairs, International Business, Journalism, Molecular Biology, Neuroscience, Public Administration, or Sport and Fitness Science, or may construct a self-designed interdisciplinary major in an area not currently available in the curriculum.

Internships and Career Field Experiences encourage students to apply and extend their learning in real-world contexts. In recent years, Muskingum interns have earned academic credit while learning through experience in law and legislators' offices, radio and television stations, hospitals, mental health institutions, businesses, and field research sites. These experiences are sponsored by individual academic departments. The Office of Career Services also assists students seeking internships that complement their personal learning goals. The goals, expectations and specific learning requirements are carefully specified in advance to assure good rapport among University staff, the students, and the various cooperating agencies.

Students may initiate internship proposals, but all internships must meet the same minimum standards and be approved by the department chair or program coordinator, supervising professor, and Provost's Office prior to the beginning of the experience or within two weeks of the beginning of the experience. To be eligible for an Internship, a student must have achieved junior standing (60 hours) prior to the internship and must have at least a 2.5 cumulative GPA. A minimum of 40 work hours combined with readings and written projects or papers is required for each semester hour of credit. Internships are graded S/U. Refer to

the departmental listing or website for more details about credit, or speak with the department chair. A maximum of 16 hours of internship, including fieldwork in student teaching, may be applied toward graduation and a maximum of 6 hours may be earned in any one semester or summer session. To be eligible for a Career Field Experience, a student must have earned a minimum of 28 credit hours prior to the beginning of the experience and must have at least a 2.0 cumulative GPA. A minimum of 40 work hours combined with readings and written projects or papers is required for each semester hour of credit, with a maximum of 2 credits allowed per experience.

## Student Responsibility

The student is responsible for meeting all appropriate course, major, and graduation requirements as stated in this catalog. Although a student and an advisor are partners, the student needs to be knowledgeable about academic requirements and take the initiative in planning his or her own program, in setting goals, and in monitoring progress toward completing such goals.

## Transcripts

Official copies of Muskingum University transcripts bearing the University seal and the Registrar's signature are sent directly to schools or organizations upon the request of students or alumni. Individuals may also receive official copies of the transcript (which are stamped "Issued to Student") following the same ordering process. Students may request transcripts by going to: <https://www.muskingum.edu/registrar/transcript-information>.

Currently enrolled students can obtain unofficial copies of their Muskingum University transcripts through the University's on-line academic record system. Grades are recorded on transcripts at the end of each term. Students may request that transcripts be held until grades for the courses in which they are enrolled are recorded. Transcripts and diplomas are not released for students with overdue accounts.

## Transfer Student Policies

To be eligible for transfer credit, courses must be completed at a regionally accredited college or university with a passing grade or better. Remedial courses are not eligible for transfer credit. A transfer student might be asked to provide a college catalog from their previous institution(s) and/or a course syllabus for specific classes.

All transfer students must complete a minimum of 32 credit hours at Muskingum University, regardless of the number of credits transferred from other institutions, in order to graduate from Muskingum.

Class standing is determined by transferable semester credit hours. Minimum credit hours for class status are: sophomore (28), junior (60), senior (90).

Quarter hours earned at previous institutions are modified to semester hours. One quarter hour equals 0.67 semester hours.

Students may earn credits and/or advanced standing through departmental proficiency examinations, Advanced Placement Program, College Level Examination and through military service and lifelong experience.

Muskingum adheres to the Ohio Transfer and Articulation Policy. Students who have earned an Associate's Degree, or who have completed at least 60 semester credit hours of earned transferable credit, from regionally accredited institutions, are permitted to complete the General Education Requirement (Degree Requirement # 8) through successful completion of the Transfer Module recognized by the Ohio Board of Regents. Eligible students who have not completed a recognized Transfer Module may fulfill this requirement by completing the following requirements through a combination of transfer credit and/or Muskingum University coursework:

At least 3 semester credit hours in English Composition/Oral Communication

At least 3 semester credit hours in Mathematics/Statistics/Logic

At least 6 semester credit hours in Arts/Humanities

At least 6 semester credit hours in Social/Behavioral Sciences

At least 6 semester credit hours in Natural Sciences.

A total of at least 36 semester credit hours from the above categories

A 3 credit upper-level Moral Inquiry course (see General Education Requirements- Moral Inquiry category)

A 3 credit upper-level Writing Unit course (Writing Unit courses are designated in the schedule with a “#” in the title)

## **Transferring Courses**

Credit toward a degree from Muskingum University may be granted for coursework taken at other regionally accredited institutions. On the basis of official transcripts and course descriptions, equivalency, elective credit, or no credit is determined in consultation with chairs of the various departments. Muskingum adheres to the Ohio Transfer and Articulation Policy.

Requirements of specific majors or programs may be more stringent. Transfer credit is not accepted for courses for which previous credit has already been granted. Transfer credit may not be used to replace grades earned at Muskingum University. Only credit hours transfer, not the corresponding grade point average for transfer work, except to determine Latin honors (for which the grade point average may be lowered but not raised).

## **MAJOR AND MINOR REQUIREMENTS**

### **Major**

### **Accounting**

#### **ACCOUNTING MAJOR (36 HOURS)**

**Requirements:**

- ACCT 201, 202, 301, 302, 363, 364, 411, 412, 495, and one course chosen from 420, 421, or 422
- ECON 215, 216

### **Accounting (Public)**

#### **ACCOUNTING (PUBLIC) MAJOR (60 HOURS WITHIN A 150 HOUR DEGREE PROGRAM)**

**Requirements:**

- ACCT 201, 202, 301, 302, 363, 364, 411, 412, 420, 421, 422, 495
- BUSI 221, 318, 325, 360, 414; one elective
- ECON 215, 216

### **Animal Studies**

#### **ANIMAL STUDIES MAJOR (38 HOURS)**

## **Requirements:**

- ANST 250, 495
- BIOL 111, 107, 112, 108, 240
- HLSC 315
- PHIL 331

**Electives:** The remaining 17 hours are drawn from the following three areas (minimum of three credits from each of the three areas).

### *Area I: Science*

- BIOL 232, 305, 346, 373
- CVSC 331
- GEOG 310
- PSYC 151, 281

### *Area II: Behavior & Communication*

- COMM 335, 345, 355, 446
- ENGL 202
- PSYC 101, 208, 304, 390

### *Area III: Management & Administration*

- ACCT 201, 202
- BUSI 221, 241, 415

## **Art**

## **EDUCATION LICENSURE**

Multi-age visual arts, age three through twelfth grade. Contact the education department or the education department website for specific course requirements.

# ART MAJOR (38 HOURS)

## Requirements:

- Foundation year: ART 112, 120, 151, 170
- Additional requirements: ART 121, 131, 212, 241, 490
- Two courses from ART 350, 351, 352
- One course from ART 321, 331, 370, 412 or 441
- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

Completion of Junior Year Review prior to the Senior Capstone Review

## Capstone experience requirements:

1. Electronic Portfolio development
2. Art-related writings
3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

# Athletic Training

## ATHLETIC TRAINING MAJOR (90 HOURS)

## Requirements:

- ATHT 110, 120, 170, 201, 202, 250, 255, 260, 265, 301, 302, 370, 375, 395, 401, 402, 470, 495, 496
- BIOL 121, 122
- HLSC 101, 110, 335, 336



- HLTH 200
- PE 338
- PHIL 305 or PE 355
- PSYC 101

## **Athletics Communication**

### **ATHLETICS COMMUNICATION MAJOR (36 HOURS)**

Requirements:

- MEDIA 150, 240, 308
- MEDIA 300 or SOCI 380
- ENGL/JOURN 207 or JOURN 219
- PE 355
- SPST 221, 240, 321, 341, 401 (taken 3 times), 495

## **Biology**

### **TEACHER LICENSURE**

Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

### **MAJOR REQUIREMENTS (46 CREDIT HOURS)**

- BIOL 111, 107, 112, 108, 226, 306, 308, 336, 420 (taken in the Junior or Senior year)
- CHEM 111, 112
- MATH 140, 170, or any MATH course higher than 170

### **ELECTIVES:**

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121, 122, 213, 221, 232, 240, 304, 312, 321, 346, 368, 373, 375, 385, 421, 422
- CVSC 331
- NRSC 386.

At most, one course from the following list will count as credit toward biology major electives: EVSC 121, 421; MBIO 211, 411; CVSC 231, 431; or NRSC 201.

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

## Business Management

### **BUSINESS MANAGEMENT MAJOR\* (42 HOURS)**

Requirements:

- BUSI 221, 241, 318, 495
- ACCT 201, 202
- BUSI 325 or ECON 333
- ECON 215, 216, 311

Electives: 4 courses from

- BUSI 325 (if student also completes ECON 333), 326, 360, 411, 412, 413, 414, 415
- ENGL 202
- SPST 441

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Business Management (BS) (MAP)

## Chemistry

## **TEACHER LICENSURE**

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## **CHEMISTRY MAJOR (36-37 HOURS IN CHEMISTRY INCLUDING)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 454, 455
- MATH 190, 200
- PHEN 121, 122

Chemistry electives: at least one course from 316, 418, 419, 425, 441, 445

Recommended electives: MATH 140; CPSC 111; a world language

## **AMERICAN CHEMICAL SOCIETY CERTIFICATION (43 – 44 HOURS IN CHEMISTRY INCLUDING)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 316, 335, 355, 418 or 419, 425, 454, 455
- MATH 190, 200, 230, 320
- PHEN 121, 122

Recommended electives: 418 or 419, 441, 445, MATH 140 or 340; CPSC 111; a world language (preferably German)

Suggested tracks to complete a chemistry major

## **AMERICAN CHEMICAL SOCIETY CERTIFICATION – BIOCHEMISTRY TRACK (43 – 44 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418, 419, 316 or 425, 454, 455
- BIOL 108, 112, 226, 375
- CPSC 111, 220
- MATH 190, 200
- PHEN 121, 122

## **PRE-HEALTH TRACK (PRE-MED, PRE-VET, PRE-DENT) (36 – 37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 108, 112, 226
- MATH 190, 200
- PHEN 121, 122

Additional Pre-dent requirements: BIOL 121, 122, Math 140

Additional Pre-vet requirements: BIOL 312, Math 140

Recommended electives: BIOL 213, 306, 312, 375; CHEM 418, 419; MATH 140; PSYC 101

## **PRE-PHARMACY TRACK (37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 112, 108, 121 or 122, 312
- MATH 190, 200, (140 recommended)
- PHEN 121, 122

## **FORENSIC CHEMISTRY TRACK (45 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 240, 315, 335, 419, 425, 440, 441, 454, 455, or internship in forensic science

- CRMJ 101, 331
- MATH 190, 200
- PHEN 121, 122

Recommended electives: Additional criminal justice courses, biology courses, and math statistics

## **NEUROCHEMISTRY TRACK (36 – 37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 108, 112, 226, 368
- MATH 190, 200
- NRSC 386
- PHEN 121, 122

Recommended electives: NRSC 201; CHEM 418, 419; BIOL 375; PSYC 101

## **[3+ 1] MAJOR (30 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419
- BIOL 121, 122, 312
- MATH 190, 200
- PHEN 121, 122

Complete all Gen Ed categories except Categories 8. Health & 13. U.S. Experience

Recommended electives: MATH 140/PSYC 232, ECON 215, BIOL 305

Total credit hours to be completed at Muskingum University: 95-99

Total of upper-level hours to be completed at Muskingum University: 26

Minimum of 36 hours to be completed in the first year of an accredited Pharm.D. Program with Pass Grades earned in all of these courses – student needs to have the transcript sent from the Pharm.D. School to Muskingum University.

# Child and Family Studies

## CHILD AND FAMILY STUDIES MAJOR

Core courses (37 hours)

- EDUC: 112, 334
- HLTH: 365, 380
- PSYC: 101, 321; one from 220, 222; two from 205, 208, 308, 309
- SOCI: 101, 345

Choose one from the following: CRMJ 390, PSYC 409, SOCI 352, CHFST 495

## AREA OF SPECIALIZATION (SELECT ONE)

### Administration (15 hours)

Choose one pair of courses (6 hours)

Either ACCT 201 and 202 or ECON 215 and 216

Choose three from among the following (9 hours): ACCT 420; BUSI 221, 241, 318, 325, 415; POLS 321

### Human Services (15 hours)

- CRMJ 101
- SOCI 301

Choose three from among the following (9 hours): CRMJ 250, 270, 342, 372; POLS 321, 322; COMM 335, 340, 446; SOCI 216, 320, 330, 418

### Later Life Families (15 hours)

- HLSC 312
- PHIL 305

Choose three from among the following: CRMJ 376; HLSC 307; HLSC 322; POLS 321, 322; SOCI 216, 320, 330

## **Christian Education**

### **CHRISTIAN EDUCATION MAJOR (35 HOURS IN ADDITION TO THE MORAL INQUIRY GEN ED REQUIREMENT)**

Requirements:

- RELG 220 or 226, 260, 301, 303 or 304, 385, 393, 397, 494
- EDUC 110, 112, 314
- PSYC 101

## **Communication**

### **COMMUNICATION MAJOR (31 HOURS)**

Requirements:

- COMM 225, 360, 495; one course from 312, 315, 335
- MEDIA 210 or COMM 260

Major Electives: remaining hours may include, with departmental approval, a maximum of 6 hours of Theatre

## **Community Health and Wellness (MAP)**

## **Computer Science**

# COMPUTER SCIENCE MAJOR (35 HOURS IN COMPUTER SCIENCE)

Requirements:

- CPSC 100, 111, 211, 230, 320, 355, 365, 400 or an internship in the computing field, 450, 495
- MATH 190, 225
- MATH 230 or 340

Electives:

- 3 courses from CPSC 220, 335, 340, 345, 430, 480, 490; MATH 350

## Conservation Science

### CONSERVATION SCIENCE MAJOR

#### Fundamental Group

Requirements:

- BIOL 111, 107, 112, 108, 226
- CHEM 111, 112
- ECON 215
- GEOL 101
- POLS 322

One course from BUSI 325, MATH 140, 340 or PSYC 232

#### Conservation Group

Requirements:

- CVSC 331, 437, 438, 439



- CVSC 231 or 431

*A Group (Select at least 11 hours; no more than 8 hours can be selected from the same discipline)*

- BIOL 304, 306, 308, 312, 375
- CHEM 213, 214, 235, 335
- EVSC 421
- GEOL 311

*B Group (Select at least 12 hours)*

- BUSI 221
- ECON 333
- PHIL 203, 331
- RELG 393
- SOCI 370

## **Criminal Justice**

### **CRIMINAL JUSTICE MAJOR (33 HOURS)**

Requirements: (18 hours)

- CRMJ 101, 230, 250, 270, 395, 495

Electives: (15 hours, at least nine of which must be from CRMJ. No more than six hours may come from the following)

- IDIS 300
- POLS 317, 321, 322, 324
- PSYC 290, 308, 363
- SOCI 216, 301, 320

## **Digital Media Design**

# DIGITAL MEDIA DESIGN MAJOR (42 HOURS)

Core Requirements (30 hours):

- ART 170
- BUSI 241
- CPSC 100
- DMD 398, 399, 400, 495
- MEDIA 150, 210, 300

Specialization Areas (12 hours) Choose ONE group:

- Art: ART 112, 151, 270, 352
- Business: BUSI 221, 417, 419, 422
- Computer Science: CPSC 111, 211, 345, 365
- Media: COMM 360, MEDIA 240, 308, 365
- Theatre: THEA 245, 265, 351, 365

## Early Childhood Education

Early Childhood Education Major prepares individuals to teach children in grades pre-kindergarten through third.

Course requirements include:

- EDUC 110, 112, 220, 309, 315, 316, 330, 334, 335, 341, 362, 366, 367, 370, 371, 412, 414, 418, 419, 420, 449, 461
- PSYC 101, 205, 220 (preschool)
- SOCI 101\*
- PE 319

\* SOCI 101 not required for transfer module student.

## Earth Science

## TEACHER LICENSURE

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

## **EARTH SCIENCE (BS) MAJOR (25-26 HOURS IN GEOLOGY)**

Requirements:

- GEOL 101 or 110, 104, 200, 220, 301, 302, 495
- Three from GEOL 303, 311, 313, 322, or GEOG 310
- One from GEOL 295 or 496
- CHEM 105 or 111
- GEOG 321
- One from MATH 140, 180, or 190
- PHEN 101 or 121
- PHEN 150

## **Economics**

### **TEACHER LICENSURE**

Integrated social studies, grades 7-12 (with an economics major). Contact the education department for specific course requirements.

### **ECONOMICS MAJOR (36 HOURS)**

Requirements:

- ECON 215, 216, 311, 333, 495
- ACCT 201
- BUSI 325

Electives: two 300- or 400-level ECON courses and three additional ACCT, BUSI, or ECON courses

## **Engineering Science**

# ENGINEERING SCIENCE MAJOR (83 HOURS):

Requirements:

- PHEN 110, 121, 122, 203, 210, 235, 300, 310, 320, 330, 370, 405, 410, 415, 420, 490, 495
- CHEM 111
- CPSC 100
- ECON 215
- MATH 190, 200, 230, 310, 320 (automatic Math minor)

Students must take the Fundamentals of Engineering Exam in the last semester of their senior year.

## English

### TEACHER LICENSURE

Prepares the student to teach integrated language arts, grades 7-12 (which includes an English major). Contact the education department or the education department website for specific course requirements. You will have one advisor in English and one in Education.

### ENGLISH MAJOR (30 HOURS NOT INCLUDING 121)

Requirements:

- ENGL 231 or 232, 233 or 234, 320, 495
- 12 hours at 300-level or above

## Environmental Science

### ENVIRONMENTAL SCIENCE MAJOR

Core Courses (41 hours)

- BIOL 106 (Environmental Science) or 111 and 107;
- BIOL 112 and 108
- CHEM 111, 112, 235
- GEOL 101 or 110, 104
- One from: MATH 140, BUSI 325, PSYC 232
- PHEN 101 or 121
- EVSC 121, 421
- EVSC 422 or 428

Core Electives (Select a minimum of 2 courses from):

- CPSC 111
- GEOG 111, 310
- GEOL 313, 322
- MATH 190, 230, 350
- PHEN 101 or 122

Any one course from biology, chemistry, or geoscience track which does not already fulfill a major requirement.

- BIOL 226, 232, 306, 308, 312, 375
- CHEM 213, 214, 315, 335
- CVSC 331
- GEOG 321
- GEOL 200, 220, 301, 302
- MATH 200

Complete requirements for at least one track:

### **Biology Track (19)**

- BIOL 226, 232, 308, 312
- One from: BIOL 306, 375, CVSC 331

Biology Track Electives (Select a minimum of 12 hours from at least two different disciplines.)

- ECON 215, 216, 361, 411
- HIST 385

- PHIL 331
- POLS 111, 131, 321-323
- RELG 393
- SOCI 370

**Chemistry Track (21 hours):**

- CHEM 213, 214, 315, 335
- MATH 200

Chemistry Track Electives (Select a minimum of 12 hours from at least two different disciplines.)

- ECON 215, 216, 361, 411
- HIST 385
- PHIL 331
- POLS 111, 131, 321-323
- RELG 393
- SOCI 370

**Geoscience Track (19 hours):**

- GEOL 200, 220, 301, 302
- GEOG 321

Geoscience Track Electives (Select a minimum of 12 hours from at least two different disciplines.)

- ECON 215, 216, 361, 411
- HIST 385
- PHIL 331
- POLS 111, 131, 321-323
- RELG 393
- SOCI 370

### **Social Science Track (18 hours):**

- ECON 215, 216, 411
- POLS 131, 151, 322

Social Science Track Electives (Select a minimum of 12 hours from at least two different disciplines.)

Choose at least two (8 hours):

- BIOL 308
- At most one from: BIOL 306 or 375 or CVSC 331
- CHEM 213, 214, 315, 335
- GEOL 200, 220
- GEOG 321

Choose at least one (3 hours):

- HIST 385
- PHIL 331
- POLS 111
- RELG 393
- SOCI 370

## **French**

### **TEACHER LICENSURE**

Multi-age world language licensure in French pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

### **FRENCH MAJOR (33 HOURS BEYOND 112)**

Requirements:

Study Abroad, FREN 310, 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

## Geology

### TEACHER LICENSURE

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

### GEOLGY (BA) MAJOR (29 HOURS IN GEOLOGY)

Requirements:

- GEOL 101 or 110, 104, 301, 302, 303, 311, 313, 322, 495
- CHEM 111
- GEOG 310
- MATH 140 or 180
- PHEN 101

Two courses from the following list:

- ECON 215
- HIST 385
- PHIL 331
- POLS 321, 322, 323
- RELG 393
- SOCI 370

### GEOLGY (BS) MAJOR (35 HOURS IN GEOLOGY)

Requirements:



- GEOL 101 or 110, 104, 301, 302, 303, 313, 322, 495, 496

Two from among GEOL 200, 220, or 311

- CHEM 111, 112
- GEOG 310
- MATH 140, 180, or 190
- PHEN 101 or 121

A six credit summer field geology course (approved by the department)

Recommended for graduate school: Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

## German

### TEACHER LICENSURE

Multi-age world language licensure in German pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

### GERMAN MAJOR (36 HOURS IF STARTED AT GERM 111; 33 HOURS IF STARTED AT GERM 211)

Requirements:

Study Abroad, GERM 123, 310, 431, one course in another foreign language at the appropriate level. Enrollment in German Table (251/291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

## Health Administration

# HEALTH ADMINISTRATION MAJOR (36 HOURS)

Requirements:

- HLSC 101, 110, 111, 301, 307, 322, 497
- ACCT 201
- BUSI 221
- COMM 355

Electives: 12 hours chosen from the following

- HLSC 312, 315, 326, 417
- ACCT 202
- BUSI 241, 415
- HLTH 365, 380
- PBRL 201
- POLS 121, 321, 325

## Health and Fitness

# HEALTH AND FITNESS MAJOR (32 HOURS)

Requirements:

- HLSC 101, 110, 131, 336, 337, 498
- HLTH 200
- PE 149

Electives: 12 hours chosen from the following

- HLSC 307, 332, 333, 335
- HLTH 345, 365, 380
- PE 203, 204, 310, 338

# Health Education

## HEALTH EDUCATION MAJOR (32 HOURS)

Requirements:

- HLTH 200, 345, 365, 380, 400
- BIOL 106 (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- HLSC 131
- PE 149, 310, 470

## Health Science (MAP)

## Healthcare Management (MAP)

## History

## TEACHER LICENSURE

Integrated social studies, grades 7-12 (with a history major). Contact the education department or education department website for specific course requirements.

## HISTORY MAJOR (33 HOURS)

Requirements:

- HIST 300, 420, 460
- 9 hours from HIST 105, 106, 110, 111, 112

Electives: one course from each grouping

- European HIST 310, 318, 320

- World HIST 344, 345, 346, 347, 348, 350, 351, 352, 353, 356
- American HIST 372, 374, 376, 378, 379, 380, 381, 382, 385

Remainder of required hours from departmental offerings

## **Human Resource Management (MAP)**

### **Humanities**

#### **HUMANITIES MAJOR**

Requirements:

- 40 hours (exclusive of Gen Ed core and elected distribution courses)
- IDIS 275, 492

Remaining courses from four of the six humanities division departments—art (ART), English (ENGL), world languages (GERM, FREN, SPAN), music (MUSC), religion and philosophy (RELG, PHIL), communication, media & theatre (COMM, DMD, JOURN, MEDIA, PBRL)

Restriction: Maximum of 29 hours in any one discipline.

## **Information Systems (MAP)**

### **International Affairs**

#### **INTERNATIONAL AFFAIRS MAJOR (42 HOURS)**

Core requirements: (15 hours)

Senior Seminar (3 hours) selected in consultation with the International Affairs advisor and in a department involved in the International Affairs major. Majors are advised that seminars in some departments may require successful completion of an additional class or classes, such as a research methods class.

12 hours from the following:

- ECON 215, 216
- HIST 112
- POLS 131, 151
- RELG 153
- SOCI 101

Distribution requirements: At least 27 hours including courses in three disciplines from the first three groups

**Social and Economic Development (3 hours)**

- ANTH 201
- ECON 361, 362
- GEOG 111
- RELG 393
- SOCI 320, 350

**International Relations (6 hours)**

- HIST 320, 348
- POLS 352, 354, 356, 357, 358

**Comparative Culture and Politics (9 hours)**

- ENGL 124
- FREN 123, 304, 325, 350
- GERM 123, 325, 350
- HIST 346, 347, 351, 356
- MUSC 310
- POLS 331, 336
- RELG 251, 342, 395
- SPAN 123, 325, 350

**Language Skills - either (a) or (b)**

a. Participation in an approved study abroad program that includes 3 hours of course work in a foreign language.

- b. Completion of a foreign language course at the 212-level or above, excluding courses not taught in the language of study.
- c. Native Speakers of foreign languages taking courses at Muskingum University are exempt from the language requirement.
- Two additional 300- or 400-level courses from the listed courses, excluding those already used to fulfill requirements.

## **International Business**

### **INTERNATIONAL BUSINESS MAJOR (42-60 HOURS)**

Core (33-53 hours, including at least 3 completed in an advisor-approved study abroad program)

- ACCT 201
- ECON 215, 216, 361
- BUSI 221, 241, 318 and 412
- HIST 320, 347, 348 or 351
- POLS 131 or 151
- IDIS 491

International business capstone course (senior seminar) to be taken after completion of FREN 240, SPAN 240, or GERM 340; ECON 215 and 216; and BUSI 221, 241, 318 and 412. Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills.

Language Proficiency (3-19 hours)

- a. For students whose native language is English: FREN 240, SPAN 240, or GERM 340: Business French/German/Spanish
- b. For students whose native language is not English: ENGL 202

Electives (6-7 hours from the following, excluding courses used to fill requirements listed above):

- ACCT 202
- ANTH 201
- BUSI 326 or 411
- ECON 362

- ENGL 202
- GEOG 111
- HIST 320, 346, 347, 348, 353, 390;
- One from: POLS 131, 151, 331;
- An additional course in FREN, GERM, or SPAN excluding 123;
- IDIS 300 (approved by international business faculty advisor).
- RELG 393
- SOCI 350

## Journalism

### JOURNALISM MAJOR (48 HOURS)

Core Requirements (39 hours):

- COMM 225
- JOURN 207, 208, 219, 399, 495
- JOURN 317 or MEDIA 420
- MEDIA 150, 210, 240, 308, 365, 450
- Electives (3 hours):
- One course selected from ENGL 316, 319, MEDIA 415
- Practica Requirements (6 hours)
- COMM 101-1, 101-2 or 201-1, 201-2 (2 hours)
- COMM 301-1, 301-2 or 401-1, 401-2 (1 hour)
- JOURN 101-1, 101-2 or 201-1, 201-2 (1 hour)
- JOURN 301-1, 301-2 or 401-1, 401-2 (2 hour)

## Marketing

### MARKETING MAJOR \*(42 HOURS)

Requirements:

- BUSI 221, 241, 318, 495
- ACCT 201, 202

- BUSI 325 or ECON 333
- ECON 215, 216, 311

Electives: 4 courses from

- BUSI 325 (if student also completes ECON 333 and does not count BUSI 325 as a Business Management elective), 411, 416, 417, 419, 422, 423
- ENGL 316
- MEDIA 300
- SPST 441

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## **Marketing (BS) (MAP)**

## **Mathematics**

## **TEACHER LICENSURE**

Integrated math, grades 7-12. Contact the education department or the education department website for specific course requirements.

## **MATHEMATICS MAJOR (36 HOURS)**

Requirements:

- MATH 190, 200, 225, 230, 310, 330, 410, 495,
- CPSC 100
- 6 additional hours at the 300-level or above.

## **Media Production**

## **MEDIA PRODUCTION MAJOR (45 HOURS)**



## Core Requirements:

- MEDIA 150, 210, 240, 308, 365, 399, 415, 450, 495
- COMM 225, 360
- COMM 101, 201, 301, 401 (6 times)
- ENGL/JOURN 207
- JOURN 219 or MEDIA 300

# Medical Laboratory Studies (MAP)

## Middle Childhood Education

Middle Childhood Education major prepares individuals to teach children grades four through nine in two of the following content areas: math, science, language arts and reading, and social studies. Students may select any combination of two of the four content areas.

### Course requirements include:

- EDUC 110, 112, 312, 330, 335, 341, 370, 372, 413, 414, 419, 420, 450, 461, 465
- two of the following: 382, 383, 384, 385
- PSYC 101, 308

Two of the following approved concentration areas: reading/language arts, mathematics, social studies, science. (Specific concentration course requirements are available in the education department office and contained in the Teacher Education Handbook.)

# Molecular Biology

## MOLECULAR BIOLOGY MAJOR (70 HOURS)

### Requirements:

- MBIO 211, 411, 417, 418
- BIOL 108, 112, 226, 306, 312, 375
- CHEM 111, 112, 213, 214, 315, 418
- CPSC 100
- MATH 190, 200
- PHEN 121, 122

Strongly Recommended: BIOL 336, statistics and computer science courses

## Music

### MUSIC MAJOR (48-49 HOURS)

Requirements:

- MUSC 111, 112, 115, 116,
- MUSC140 (for students with a vocal concentration)
- MUSC 211, 212, 215, 216, 295, 310, 321, 322, 371, 401, 445
- 8 hours of applied study in one area
- 8 hours in the appropriate major ensemble
- 8 semesters of MUSC 100, 300
- Junior qualifying exam (assessed after 212)

## Music Education

### MUSIC EDUCATION MAJOR (76-77 HOURS)

Requirements:

- MUSC 111, 112, 115, 116,
- MUSC140 (for students with a vocal concentration)
- MUSC 181, 211, 212, 215, 216, 281, 282, 284, 285, 295, 310, 315, 321, 322, 371, 372, 382, 383, 384, 401, 445, 482, 483
- EDUC 110, 112, 314, 330, 335, 341, 413, 419, 420, 461, 466
- 6 semesters of the appropriate major ensemble and one semester in an ensemble of a medium dissimilar from the student's primary area of applied study

- 7 hours of applied study in one area
- 7 semesters of MUSC 100, 300
- Junior qualifying exam (assessed after 212)

## Neuroscience

### NEUROSCIENCE MAJOR (57-59 HOURS)

Requirements:

- NRSC 201 (taken 3 times)
- NRSC 305, 308, 407, 408, 409
- BIOL 108, 112, 226, 368
- CHEM 111, 112
- PSYC 101, 151, 232, 281

Three of the following courses:

- NRSC 386
- PSYC 361, 381
- BIOL 336, 375

Suggested electives:

- BIOL 213, 306
- CHEM 213, 214, 418
- CPSC 100 or 111
- MATH 190
- PHEN 101
- PSYC 304, 351

## Nursing

### NURSING MAJOR (108 HOURS)

Required lower-level nursing courses (19 hours):

- NURS 125, 226, 227, 230, 251

Required upper-level nursing courses (46 hours):

- NURS 340, 351, 360, 375, 430, 451, 460, 486, 487

Required support courses (43 hours)

- BIOL 121, 122, 305, 312, 346
- CHEM 108
- HLSC 231
- PHIL 305
- PSYC 101, 208, 232
- SOCI 101

One of the following:

- HLSC 307, 312, 315, 322, 336, HLTH 345, 365, 380, 400

## **Occupational Science (MAP)**

## **Organizational Communication**

### **ORGANIZATIONAL COMMUNICATION MAJOR (36 HOURS)**

Core Requirements (27 hours):

- COMM 225, 335, 340, 345, 355, 360, 446, 495,
- MEDIA 210

Electives: remaining coursework may be selected from any offering within the CMT department. Students wishing to experience study in public relations, media, or journalism may select from those offerings as well as communication.

# Petroleum Geology

## **PETROLEUM GEOLOGY (BS) MAJOR (36 HOURS IN GEOLOGY):**

- GEOL 101 or 110, 104, 230, 301, 302, 303, 311, 313, 322, 350, 410
- CHEM 111, 112
- GEOG 310
- One from: MATH 140, 180, 190
- PHEN 101 or 121

A six credit summer field geology course (approved by the department)

# Philosophy

## **PHILOSOPHY MAJOR (31 HOURS)**

Requirements:

- PHIL 101, 325, 327, 350, 353 or 354, 495, 496

Electives: Courses from Philosophy (PHIL): up to two Religion (RELG) offerings with permission of department chair

# Physical Education

## **PHYSICAL EDUCATION MAJOR (27 HOURS)**

Requirements:

- PE 149, 203, 204 (substitute for two activities required for graduation), 310, 338, 341, 416, 418
- HLSC 131

Electives: Two hours of Physical Education (PE) above the 100-level

# Physics

## TEACHER LICENSURE

Physical Sciences: Physics or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## PHYSICS MAJOR (73 HOURS):

- PHEN 110, 121, 122, 203, 210, 310, 320, 340, 370, 430, 490, 495
- CHEM 111, 112
- CPSC 100, 111
- MATH 190, 200, 230, 310, 320 (automatic Math minor) and one of the following: 340, 350, 420, 430

Students must take the Educational Testing Service Major Field Test in Physics in the last semester of their senior year.

## Physics Education

## PHYSICS EDUCATION MAJOR – (102 HOURS):

- PHEN 110, 121, 122, 203, 210, 235, 310, 490, 495
- CHEM 111, 112, 200
- CPSC 100
- EDUC 110, 112, 313, 330, 335, 341, 394, 413, 419, 420, 451, 461, 466
- MATH 190, 200, 230, 310
- PSYC 101, 308

The Ohio Assessments for Educators (OAE) test in physics must be passed prior to admission into student teaching.

Students must declare co-advisors from the Physics and Engineering and Education Departments to ensure that academic and teaching licensure requirements are met.

## Political Science

# **POLITICAL SCIENCE MAJOR (30 HOURS)**

Core Requirements (15 hours):

- POLS 111; two courses from POLS 121, 131 or 151; 341; 491
- Distribution (6 hours): one course from two of the following categories
- American Government courses: POLS 310 - 319
- Public Administration/Policy courses: POLS 320 - 329
- Comparative Politics courses: POLS 330 - 339
- International Relations courses: POLS 350 - 359

Electives (9 hours): From departmental offerings, may include one additional course at the 100-level.

# **Psychology**

## **TEACHER LICENSURE**

Integrated social studies, grades 7-12 (with a psychology major). Contact the education department or the education department website for specific course requirements.

# **PSYCHOLOGY MAJOR (34 HOURS)**

Requirements:

- PSYC 101, 151, 232, 351, 493, 495
- Electives: One course from each of the following perspectives (one of the four courses must include a lab):
- Biological: PSYC 281, 361 (lab), 371 (lab)
- Cognitive/Social: PSYC 304, 305 (lab), 321, 359 (lab)
- Developmental: PSYC 205, 208, 308, 309
- Clinical/Applied: PSYC 290, 363, 390, 406

Double Majors: Students choosing to major in psychology and another department are required to do only one Senior Studies project, registering for Senior Studies in one of the departments and establishing contact with an advisor in the other. The project must be empirical in nature and satisfactory to both departments. A copy of the work is turned in to each department

and both a poster and an oral presentation are made to the psychology department. The student must take an additional 300- or 400- level class in the major for which the Senior Studies is not taken.

## Public Administration

### **PUBLIC ADMINISTRATION MAJOR: (42 HOURS)**

Requirements: (36 hours)

- ACCT 201
- ECON 215, 216
- ENGL 201 or 202
- GEOG 310
- IDIS 250 (3 hours) or 300
- POLS 121, 321, 322, 341
- One of the following: POLS 323, 325 or 326
- A senior seminar in Accounting, Economics, English, Political Science or the student's cognate area with a topic approved by the Public Administration advisor.

Cognate Area : (6 upper level hours)

Students are required to secure approval from the Chair of the Department for a course of study that will enhance their preparation in Public Administration. (For example students who have an interest in historic districts might choose History, those interested in grant writing might find English to be helpful, and those interested in Parks and Recreation might find Health Science or Biology appropriate. Students may NOT choose Political Science as a cognate area.)

## Public Health Studies

### **PUBLIC HEALTH STUDIES MAJOR (40-46 HOURS)**

Requirements: (19 hours)

- HLSC 101, 151, 315, 322, 496
- HLSC 304 or PSYC 232
- PHIL 305



- Electives: (21-27 hours) Choose a total of seven of the following courses with at least three from category A and at least one each from categories B and C.

### **A: Social, Behavioral and Environmental Determinants of Health**

- ANTH 201
- CHEM 235
- CRMJ 342
- CVSC 331
- HIST 385
- HLSC 312
- HLTH 200 or HLSC 231 or HLSC 331
- PSYC 208, 281, 321, 363
- SOCI 216, 320, 330, 345, 370

### **B: Health Program Planning and Assessment**

- GEOG 310
- HLSC 307, 415
- HLTH 345, 365, 380
- POLS 322

### **C: Physiologic and Molecular Determinants of Health**

- BIOL 112 and 108 or 121 or 122 or HLSC 131
- BIOL 305 or 306
- BIOL 312, 346, 375

# **Public Relations**

## **PUBLIC RELATIONS MAJOR (49 HOURS)**

Core Requirements (49 hours):

- PBRL 201, 315, 345, 399, 495
- COMM 101, 201, 301, 401 (3 hours, 1 hour each)

- COMM 225, 360
- ENGL 316, 317 or MEDIA 420
- ENGL/JOURN 207
- JOURN 219 or MEDIA 300
- MEDIA 150, 210, 240, 365 or 308

## Religion

### RELIGION MAJOR (31 HOURS)

Requirements:

- RELG 153, 220 or 226, 301, 303, 495, 496
- two other courses at the 300- or 400-level.

Electives: Courses from Religion (RELG) offerings: up to two Philosophy (PHIL) offerings with permission of the department chair

## Self-Designed

Students planning a self-designed interdisciplinary major (SDIM) consult appropriate academic and department advisors in developing a rationale and course of action for the major. The primary consideration for approval of an SDIM is that the proposal demonstrates respect for the depth that the major traditionally provides in the liberal arts curriculum. The SDIM major encompasses work from at least three departments and consists of no fewer than 40 or more than 60 hours, with a limit of 30 hours in any one department. In addition, an SDIM proposal should make provision for an appropriate seminar or "capstone" experience. The application process for an SDIM may begin as early as the sophomore year but must be completed no later than the end of the first semester of the junior year. To propose an SDIM, a student submits a written proposal to the Provost for consideration by the Curriculum Committee. The proposal shall include: (1) a statement of intended career or plans for graduate or professional study after graduation; (2) reasons why an SDIM is preferable to an established major; (3) an overview of the program of study thus far; (4) a proposed program or focus of study that lists courses by departments; (5) a proposed class schedule for the remaining semesters at Muskingum which has been reviewed by the Registrar; (6) an unofficial transcript of all Muskingum transfer courses; (7) signed statements of endorsement of the proposal by advisor(s) and chairs of the respective departments in which the proposed courses comprising the SDIM would be taken.

SDIMs are noted on the transcript as interdisciplinary and self-designed, together with identification of the three principal disciplines as defined in the approval proposal. e.g. IDIS (self designed); ART-PSYC-EDUC. Copies of the approved program will be kept on file by advisor (s), the Registrar, and the Provost or the VPGCS as appropriate. The Registrar will consider receipt of a copy of an approved SDIM to be an official declaration of major.

## Sociology

### TEACHER LICENSURE

Integrated social studies, grades 7-12 (with a sociology major). Contact the education department or the education department website for specific course requirements.

### SOCIOLOGY MAJOR (30 HOURS)

Requirements:

- SOCI 101, 360, 422, 490 (twice), 495, 496

Electives: Remainder of hours from other sociology and anthropology

offerings

## Spanish

### TEACHER LICENSURE

Multi-age world language licensure in Spanish pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## **SPANISH MAJOR (33 HOURS BEYOND 112)**

Requirements:

Study Abroad, SPAN 310, 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (251/291) expected every semester, required when not enrolled in a Spanish course; 2 hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## **Special Education**

Special Education major prepares individuals to work with students with special needs in grades K-12 and leads to the Intervention Specialist: Mild to Moderate (K-12) license.

Course requirements include:

- EDUC 110, 112, 220, 330, 335
- one of the following: 309, 312; 313 or 314, 340, 341, 362, 366, 367, 370, 371, 383, 385, 413, 414, 419, 420, 432, 434, 461, 468
- one of the following: 418, 465 or 466
- PSYC 101, 205, 308
- SOCI 101
- PE 319

## **Sport Administration**

### **SPORT ADMINISTRATION MAJOR (35 HOURS)**

Requirements:

- BUSI 221, 241
- COMM 355
- PE 470
- POLS 321, 325
- SPST 221, 341, 344, 402 (taken 2 times), 441, 495

# **Sport and Fitness Science (MAP)**

## **Theatre**

### **THEATRE MAJOR (31 HOURS)**

Requirements:

- COMM 360
- THEA 245, 275, 351, 352, 375, 495

Electives: remaining hours may include with departmental approval a maximum of 6 hours in Communication

## **Minor**

## **Accounting**

### **ACCOUNTING MAJOR (36 HOURS)**

Requirements:

- ACCT 201, 202, 301, 302, 363, 364, 411, 412, 495, and one course chosen from 420, 421, or 422
- ECON 215, 216

## **American Studies**

## **Art**

## **EDUCATION LICENSURE**

Multi-age visual arts, age three through twelfth grade. Contact the education department or the education department website for specific course requirements.

## **ART MAJOR (38 HOURS)**

Requirements:

- Foundation year: ART 112, 120, 151, 170
- Additional requirements: ART 121, 131, 212, 241, 490
- Two courses from ART 350, 351, 352
- One course from ART 321, 331, 370, 412 or 441
- One art course elective
- Portfolio for acceptance into major program
- One to three pieces may be retained as part of the student section of the Permanent Art Collection

Completion of Junior Year Review prior to the Senior Capstone Review

Capstone experience requirements:

1. Electronic Portfolio development
2. Art-related writings
3. Development of interdisciplinary art
4. Development of inter-cultural diversity art
5. Development of technology related to art

## **Athletics Communication**

### **ATHLETICS COMMUNICATION MAJOR (36 HOURS)**

Requirements:

- MEDIA 150, 240, 308
- MEDIA 300 or SOCI 380
- ENGL/JOURN 207 or JOURN 219
- PE 355
- SPST 221, 240, 321, 341, 401 (taken 3 times), 495

# Biology

## TEACHER LICENSURE

Life Sciences or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## MAJOR REQUIREMENTS (46 CREDIT HOURS)

- BIOL 111, 107, 112, 108, 226, 306, 308, 336, 420 (taken in the Junior or Senior year)
- CHEM 111, 112
- MATH 140, 170, or any MATH course higher than 170

## ELECTIVES:

The remaining 12 credit hours can be completed from the following elective courses:

- BIOL 121, 122, 213, 221, 232, 240, 304, 312, 321, 346, 368, 373, 375, 385, 421, 422
- CVSC 331
- NRSC 386.

At most, one course from the following list will count as credit toward biology major electives: EVSC 121, 421; MBIO 211, 411; CVSC 231, 431; or NRSC 201.

Gen Ed issues courses (the 106 group) count as two credit hours toward the electives in the major.

BIOL 305 cannot be counted as credit toward the biology major.

# Business Management

## **BUSINESS MANAGEMENT MAJOR\* (42 HOURS)**

Requirements:

- BUSI 221, 241, 318, 495
- ACCT 201, 202
- BUSI 325 or ECON 333
- ECON 215, 216, 311

Electives: 4 courses from

- BUSI 325 (if student also completes ECON 333), 326, 360, 411, 412, 413, 414, 415
- ENGL 202
- SPST 441

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

# Chemistry

## **TEACHER LICENSURE**

Physical Sciences: Chemistry or Integrated Science. Contact the chemistry department or education department for specific course requirements.

## **CHEMISTRY MAJOR (36-37 HOURS IN CHEMISTRY INCLUDING)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 454, 455
- MATH 190, 200
- PHEN 121, 122



Chemistry electives: at least one course from 316, 418, 419, 425, 441, 445

Recommended electives: MATH 140; CPSC 111; a world language

## **AMERICAN CHEMICAL SOCIETY CERTIFICATION (43 – 44 HOURS IN CHEMISTRY INCLUDING)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 316, 335, 355, 418 or 419, 425, 454, 455
- MATH 190, 200, 230, 320
- PHEN 121, 122

Recommended electives: 418 or 419, 441, 445, MATH 140 or 340; CPSC 111; a world language (preferably German)

Suggested tracks to complete a chemistry major

## **AMERICAN CHEMICAL SOCIETY CERTIFICATION – BIOCHEMISTRY TRACK (43 – 44 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418, 419, 316 or 425, 454, 455
- BIOL 108, 112, 226, 375
- CPSC 111, 220
- MATH 190, 200
- PHEN 121, 122

## **PRE-HEALTH TRACK (PRE-MED, PRE-VET, PRE-DENT) (36 – 37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 108, 112, 226
- MATH 190, 200

- PHEN 121, 122

Additional Pre-dent requirements: BIOL 121, 122, Math 140

Additional Pre-vet requirements: BIOL 312, Math 140

Recommended electives: BIOL 213, 306, 312, 375; CHEM 418, 419; MATH 140; PSYC 101

## **PRE-PHARMACY TRACK (37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 112, 108, 121 or 122, 312
- MATH 190, 200, (140 recommended)
- PHEN 121, 122

## **FORENSIC CHEMISTRY TRACK (45 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 240, 315, 335, 419, 425, 440, 441, 454, 455, or internship in forensic science
- CRMJ 101, 331
- MATH 190, 200
- PHEN 121, 122

Recommended electives: Additional criminal justice courses, biology courses, and math statistics

## **NEUROCHEMISTRY TRACK (36 – 37 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419, 454, 455
- BIOL 108, 112, 226, 368
- MATH 190, 200

- NRSC 386
- PHEN 121, 122

Recommended electives: NRSC 201; CHEM 418, 419; BIOL 375; PSYC 101

## **[3+ 1] MAJOR (30 HOURS IN CHEMISTRY)**

Requirements:

- CHEM 111, 112, 213, 214, 315, 335, 355, 418 or 419
- BIOL 121, 122, 312
- MATH 190, 200
- PHEN 121, 122

Complete all Gen Ed categories except Categories 8. Health & 13. U.S. Experience

Recommended electives: MATH 140/PSYC 232, ECON 215, BIOL 305

Total credit hours to be completed at Muskingum University: 95-99

Total of upper-level hours to be completed at Muskingum University: 26

Minimum of 36 hours to be completed in the first year of an accredited Pharm.D. Program with Pass Grades earned in all of these courses – student needs to have the transcript sent from the Pharm.D. School to Muskingum University.

## **Communication**

### **COMMUNICATION MAJOR (31 HOURS)**

Requirements:

- COMM 225, 360, 495; one course from 312, 315, 335
- MEDIA 210 or COMM 260

Major Electives: remaining hours may include, with departmental approval, a maximum of 6 hours of Theatre

# Computer Science

## COMPUTER SCIENCE MAJOR (35 HOURS IN COMPUTER SCIENCE)

Requirements:

- CPSC 100, 111, 211, 230, 320, 355, 365, 400 or an internship in the computing field, 450, 495
- MATH 190, 225
- MATH 230 or 340

Electives:

- 3 courses from CPSC 220, 335, 340, 345, 430, 480, 490; MATH 350

# Criminal Justice

## CRIMINAL JUSTICE MAJOR (33 HOURS)

Requirements: (18 hours)

- CRMJ 101, 230, 250, 270, 395, 495

Electives: (15 hours, at least nine of which must be from CRMJ. No more than six hours may come from the following)

- IDIS 300
- POLS 317, 321, 322, 324
- PSYC 290, 308, 363
- SOCI 216, 301, 320

# Digital Media Design

# DIGITAL MEDIA DESIGN MAJOR (42 HOURS)

Core Requirements (30 hours):

- ART 170
- BUSI 241
- CPSC 100
- DMD 398, 399, 400, 495
- MEDIA 150, 210, 300

Specialization Areas (12 hours) Choose ONE group:

- Art: ART 112, 151, 270, 352
- Business: BUSI 221, 417, 419, 422
- Computer Science: CPSC 111, 211, 345, 365
- Media: COMM 360, MEDIA 240, 308, 365
- Theatre: THEA 245, 265, 351, 365

## Earth Science

### TEACHER LICENSURE

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

### EARTH SCIENCE (BS) MAJOR (25-26 HOURS IN GEOLOGY)

Requirements:

- GEOL 101 or 110, 104, 200, 220, 301, 302, 495
- Three from GEOL 303, 311, 313, 322, or GEOG 310
- One from GEOL 295 or 496
- CHEM 105 or 111
- GEOG 321
- One from MATH 140, 180, or 190

- PHEN 101 or 121
- PHEN 150

## Economics

### TEACHER LICENSURE

Integrated social studies, grades 7-12 (with an economics major). Contact the education department for specific course requirements.

### ECONOMICS MAJOR (36 HOURS)

Requirements:

- ECON 215, 216, 311, 333, 495
- ACCT 201
- BUSI 325

Electives: two 300- or 400-level ECON courses and three additional ACCT, BUSI, or ECON courses

## Engineering Science

### ENGINEERING SCIENCE MAJOR (83 HOURS):

Requirements:

- PHEN 110, 121, 122, 203, 210, 235, 300, 310, 320, 330, 370, 405, 410, 415, 420, 490, 495
- CHEM 111
- CPSC 100
- ECON 215
- MATH 190, 200, 230, 310, 320 (automatic Math minor)

Students must take the Fundamentals of Engineering Exam in the last semester of their senior year.

# English

## TEACHER LICENSURE

Prepares the student to teach integrated language arts, grades 7-12 (which includes an English major). Contact the education department or the education department website for specific course requirements. You will have one advisor in English and one in Education.

## ENGLISH MAJOR (30 HOURS NOT INCLUDING 121)

Requirements:

- ENGL 231 or 232, 233 or 234, 320, 495
- 12 hours at 300-level or above

# Film Studies

# French

## TEACHER LICENSURE

Multi-age world language licensure in French pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## FRENCH MAJOR (33 HOURS BEYOND 112)

Requirements:

Study Abroad, FREN 310, 431, one course in another foreign language at the appropriate level. Enrollment in French Table (FREN 251/291) expected every semester, required when not enrolled in a French course; 2 hours applied to major or minor. No more than one upper level French course taught in English is allowed to count toward major requirements.

## **Gender Studies**

## **Geology**

### **TEACHER LICENSURE**

Earth Sciences or Integrated Sciences, grades 7-12. Contact the education department or the education department website for specific course requirements.

### **GEOLOGY (BA) MAJOR (29 HOURS IN GEOLOGY)**

Requirements:

- GEOL 101 or 110, 104, 301, 302, 303, 311, 313, 322, 495
- CHEM 111
- GEOG 310
- MATH 140 or 180
- PHEN 101

Two courses from the following list:

- ECON 215
- HIST 385
- PHIL 331
- POLS 321, 322, 323
- RELG 393
- SOCI 370

### **GEOLOGY (BS) MAJOR (35 HOURS IN GEOLOGY)**



## Requirements:

- GEOL 101 or 110, 104, 301, 302, 303, 313, 322, 495, 496

Two from among GEOL 200, 220, or 311

- CHEM 111, 112
- GEOG 310
- MATH 140, 180, or 190
- PHEN 101 or 121

A six credit summer field geology course (approved by the department)

Recommended for graduate school: Calculus and 2 courses in each of physics and engineering (PHEN), biology (BIOL), world languages (FREN, GERM, SPAN).

# German

## TEACHER LICENSURE

Multi-age world language licensure in German pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

## GERMAN MAJOR (36 HOURS IF STARTED AT GERM 111; 33 HOURS IF STARTED AT GERM 211)

### Requirements:

Study Abroad, GERM 123, 310, 431, one course in another foreign language at the appropriate level. Enrollment in German Table (251/291) expected every semester, required when not enrolled in a German course; 2 hours applied to major or minor. No more than one upper-level German course taught in English is allowed to count toward major requirements.

# Health Administration

## HEALTH ADMINISTRATION MAJOR (36 HOURS)

Requirements:

- HLSC 101, 110, 111, 301, 307, 322, 497
- ACCT 201
- BUSI 221
- COMM 355

Electives: 12 hours chosen from the following

- HLSC 312, 315, 326, 417
- ACCT 202
- BUSI 241, 415
- HLTH 365, 380
- PBRL 201
- POLS 121, 321, 325

# Health and Fitness

## HEALTH AND FITNESS MAJOR (32 HOURS)

Requirements:

- HLSC 101, 110, 131, 336, 337, 498
- HLTH 200
- PE 149

Electives: 12 hours chosen from the following

- HLSC 307, 332, 333, 335
- HLTH 345, 365, 380

- PE 203, 204, 310, 338

## Health Education

### HEALTH EDUCATION MAJOR (32 HOURS)

Requirements:

- HLTH 200, 345, 365, 380, 400
- BIOL 106 (Genetic Frontiers and Biotechnology, Human Biology, or Human Diseases)
- HLSC 131
- PE 149, 310, 470

## History

### TEACHER LICENSURE

Integrated social studies, grades 7-12 (with a history major). Contact the education department or education department website for specific course requirements.

### HISTORY MAJOR (33 HOURS)

Requirements:

- HIST 300, 420, 460
- 9 hours from HIST 105, 106, 110, 111, 112

Electives: one course from each grouping

- European HIST 310, 318, 320
- World HIST 344, 345, 346, 347, 348, 350, 351, 352, 353, 356
- American HIST 372, 374, 376, 378, 379, 380, 381, 382, 385

Remainder of required hours from departmental offerings

# Human Biology

## Marketing

### **MARKETING MAJOR \*(42 HOURS)**

Requirements:

- BUSI 221, 241, 318, 495
- ACCT 201, 202
- BUSI 325 or ECON 333
- ECON 215, 216, 311

Electives: 4 courses from

- BUSI 325 (if student also completes ECON 333 and does not count BUSI 325 as a Business Management elective), 411, 416, 417, 419, 422, 423
- ENGL 316
- MEDIA 300
- SPST 441

\*Adult undergraduate degree completers should refer to the MAP Guidebook.

## Mathematics

### **TEACHER LICENSURE**

Integrated math, grades 7-12. Contact the education department or the education department website for specific course requirements.

### **MATHEMATICS MAJOR (36 HOURS)**

Requirements:

- MATH 190, 200, 225, 230, 310, 330, 410, 495,
- CPSC 100
- 6 additional hours at the 300-level or above.

## Music

### **MUSIC MAJOR (48-49 HOURS)**

Requirements:

- MUSC 111, 112, 115, 116,
- MUSC140 (for students with a vocal concentration)
- MUSC 211, 212, 215, 216, 295, 310, 321, 322, 371, 401, 445
- 8 hours of applied study in one area
- 8 hours in the appropriate major ensemble
- 8 semesters of MUSC 100, 300
- Junior qualifying exam (assessed after 212)

## Musical Theatre

## Nutrition

## Organizational Communication

### **ORGANIZATIONAL COMMUNICATION MAJOR (36 HOURS)**

Core Requirements (27 hours):

- COMM 225, 335, 340, 345, 355, 360, 446, 495,
- MEDIA 210

Electives: remaining coursework may be selected from any offering within the CMT department. Students wishing to experience study in public relations, media, or journalism may select from those offerings as well as communication.

# Philosophy

## PHILOSOPHY MAJOR (31 HOURS)

Requirements:

- PHIL 101, 325, 327, 350, 353 or 354, 495, 496

Electives: Courses from Philosophy (PHIL): up to two Religion (RELG) offerings with permission of department chair

# Physical Education

## PHYSICAL EDUCATION MAJOR (27 HOURS)

Requirements:

- PE 149, 203, 204 (substitute for two activities required for graduation), 310, 338, 341, 416, 418
- HLSC 131

Electives: Two hours of Physical Education (PE) above the 100-level

# Physics

## TEACHER LICENSURE

Physical Sciences: Physics or Integrated Science, grades 7-12. Contact the education department or the education department website for specific course requirements.

## PHYSICS MAJOR (73 HOURS):

- PHEN 110, 121, 122, 203, 210, 310, 320, 340, 370, 430, 490, 495
- CHEM 111, 112

- CPSC 100, 111
- MATH 190, 200, 230, 310, 320 (automatic Math minor) and one of the following: 340, 350, 420, 430

Students must take the Educational Testing Service Major Field Test in Physics in the last semester of their senior year.

## Political Science

### **POLITICAL SCIENCE MAJOR (30 HOURS)**

Core Requirements (15 hours):

- POLS 111; two courses from POLS 121, 131 or 151; 341; 491
- Distribution (6 hours): one course from two of the following categories
- American Government courses: POLS 310 - 319
- Public Administration/Policy courses: POLS 320 - 329
- Comparative Politics courses: POLS 330 - 339
- International Relations courses: POLS 350 - 359

Electives (9 hours): From departmental offerings, may include one additional course at the 100-level.

## Pre-Law

## Pre-Social Work

## Psychology

### **TEACHER LICENSURE**

Integrated social studies, grades 7-12 (with a psychology major). Contact the education department or the education department website for specific course requirements.

### **PSYCHOLOGY MAJOR (34 HOURS)**

## Requirements:

- PSYC 101, 151, 232, 351, 493, 495
- Electives: One course from each of the following perspectives (one of the four courses must include a lab):
- Biological: PSYC 281, 361 (lab), 371 (lab)
- Cognitive/Social: PSYC 304, 305 (lab), 321, 359 (lab)
- Developmental: PSYC 205, 208, 308, 309
- Clinical/Applied: PSYC 290, 363, 390, 406

Double Majors: Students choosing to major in psychology and another department are required to do only one Senior Studies project, registering for Senior Studies in one of the departments and establishing contact with an advisor in the other. The project must be empirical in nature and satisfactory to both departments. A copy of the work is turned in to each department and both a poster and an oral presentation are made to the psychology department. The student must take an additional 300- or 400- level class in the major for which the Senior Studies is not taken.

# Public Health Studies

## PUBLIC HEALTH STUDIES MAJOR (40-46 HOURS)

Requirements: (19 hours)

- HLSC 101, 151, 315, 322, 496
- HLSC 304 or PSYC 232
- PHIL 305
- Electives: (21-27 hours) Choose a total of seven of the following courses with at least three from category A and at least one each from categories B and C.

### A: Social, Behavioral and Environmental Determinants of Health

- ANTH 201
- CHEM 235
- CRMJ 342
- CVSC 331
- HIST 385
- HLSC 312
- HLTH 200 or HLSC 231 or HLSC 331



- PSYC 208, 281, 321, 363
- SOCI 216, 320, 330, 345, 370

### **B: Health Program Planning and Assessment**

- GEOG 310
- HLSC 307, 415
- HLTH 345, 365, 380
- POLS 322

### **C: Physiologic and Molecular Determinants of Health**

- BIOL 112 and 108 or 121 or 122 or HLSC 131
- BIOL 305 or 306
- BIOL 312, 346, 375

## **Religion**

### **RELIGION MAJOR (31 HOURS)**

Requirements:

- RELG 153, 220 or 226, 301, 303, 495, 496
- two other courses at the 300- or 400-level.

Electives: Courses from Religion (RELG) offerings: up to two Philosophy (PHIL) offerings with permission of the department chair

## **Sociology**

### **TEACHER LICENSURE**

Integrated social studies, grades 7-12 (with a sociology major). Contact the education department or the education department website for specific course requirements.

## **SOCIOLOGY MAJOR (30 HOURS)**

Requirements:

- SOCI 101, 360, 422, 490 (twice), 495, 496

Electives: Remainder of hours from other sociology and anthropology

offerings

## **Spanish**

### **TEACHER LICENSURE**

Multi-age world language licensure in Spanish pre-K through 21 is offered. Teacher licensure candidates must meet the requirements of Muskingum University and the Ohio Department of Education for teacher licensure. Contact the education department on campus for specific course requirements. Licensure candidates are required to maintain a minimum average GPA of 3.0 in their language course work, earn a minimum grade of B- in WRLD 397 Methods in Teaching World Languages, and pass the content tests required by the State of Ohio for teacher licensure prior to student teaching. Completion of requirements may take 8 semesters in addition to student teaching.

### **SPANISH MAJOR (33 HOURS BEYOND 112)**

Requirements:

Study Abroad, SPAN 310, 431, one course in another foreign language at the appropriate level. Enrollment in Spanish Table (251/291) expected every semester, required when not enrolled in a Spanish course; 2 hours applied to major or minor. No more than one upper-level Spanish courses taught in English is allowed to count toward major requirements.

## **Sport Administration**

### **SPORT ADMINISTRATION MAJOR (35 HOURS)**

Requirements:

- BUSI 221, 241
- COMM 355
- PE 470
- POLS 321, 325
- SPST 221, 341, 344, 402 (taken 2 times), 441, 495

## **Sports Coaching**

## **Teaching English as a Second Language**

## **Theatre**

### **THEATRE MAJOR (31 HOURS)**

Requirements:

- COMM 360
- THEA 245, 275, 351, 352, 375, 495

Electives: remaining hours may include with departmental approval a maximum of 6 hours in Communication

## **Education Licensure**

### **Adolescent/Young Adult: Earth Sciences**

### **Adolescent/Young Adult: Integrated Language Arts**

### **Adolescent/Young Adult: Integrated Mathematics**

**Adolescent/Young Adult: Integrated Science**

**Adolescent/Young Adult: Integrated Social Studies**

**Adolescent/Young Adult: Life Sciences**

**Adolescent/Young Adult: Physical Sciences: Chemistry**

**Adolescent/Young Adult: Physical Sciences: Physics**

**Multi-Age: Art Education**

**Multi-Age: Health Education**

**Multi-Age: Music Education**

**Multi-Age: Physical Education**

**Multi-Age: World Languages**

**Pre-professional**

**Pre-Dentistry**

**Pre-Law**

**Pre-Med**

**Pre-Occupational Therapy**

**Pre-Optometry**

**Pre-Pharmacy**

**Pre-Physical Therapy**

**Pre-Physician's Assistant**

**Pre-Social Work**

**Pre-Veterinary**

## **GENERAL EDUCATION REQUIREMENTS**

### **2018-2019 General Education Requirements**

#### **PROGRAM OF GENERAL EDUCATION (GEN ED)**

The General Education (referred to as gen ed) Requirements at Muskingum University ensure the breadth inherent in a liberal arts education. A liberal arts education requires that students understand the foundations of knowledge and inquiry about nature, culture, self, and society; that students master core skills of perception, analysis, and expression; that students recognize the importance of historical and cultural contexts; and that students explore connections among formal learning, citizenship, and service to our communities. Students will take most of their gen ed requirements in their freshman and sophomore years, along with some courses in their major or other elective courses.

#### **CORE REQUIREMENTS**

Forming the core of the General Education Program are courses in communication in writing and speech:

## **1. COMMUNICATION IN WRITING**

This category is designed to develop the ability to communicate clearly and effectively in writing. Objective: Students will demonstrate effective communication through writing.

ENGL 121. Composition (3 hours) (Exempted with SAT W-620/ACT E-28)

Two writing unit courses (3 hours each), one at the 300- or 400-level. A “writing unit” uses writing as a substantial mode of learning and is identified in the Undergraduate Course Schedule listings on MuskieLink and in the MAP Schedule by the symbol # preceding the course title.

## **2. COMMUNICATION IN SPEECH**

This category is designed to develop the ability to communicate clearly and effectively in speech. Objective: Students will demonstrate effective communication through speech.

COMM 200. Fundamentals of Speech Communication (3 hours)

Distribution Requirements.

To fulfill General Education Requirements a student may use courses with a given prefix to satisfy no more than two of the following categories.

## **3. COMMUNICATION IN A GLOBAL AND DIGITAL AGE**

This category is designed to develop communication and information-gathering skills through emphasis on a non-native language or other means of communicating in a technology-driven, global society. Minimum of 3 hours or participation in a Muskingum University-approved international program. Objective: Students will demonstrate effective communication skills in a non-native language or identify and use digital resources to communicate.

- Computer Science 100: Introduction to Computer Science
- Digital Media Design 400: Principles of Interactive Design
- Education 335: Educational Technology

- French 111: Beginning French I
- French 112: Beginning French II
- German 111: Beginning German I
- German 112: Beginning German II
- Media 210: Media Literacy
- Media 300: Visual Communication
- Library 220: Beyond Google: Research Skills and Resources
- Spanish 111: Beginning Spanish I
- Spanish 112: Beginning Spanish II

## 4. RELIGIOUS UNDERSTANDING

This category is designed to develop an understanding of religious ways of life. Minimum of 3 hours. Objective: Students will describe the distinctive traits of religious belief systems.

- Religion 150: Biblical Theology
- Religion 153: World Religions
- Religion 220: Hist. of Christianity: Ancient and Medieval
- Religion 226: Hist. of Christianity: Reformation and Modern
- Religion 251: The World of Islam
- Religion 252: The Judeo-Christian Tradition
- Religion 260: Introduction to Christian Theology
- Religion 290: Topics in Religious Understanding
- Religion 303: New Testament Literature
- Religion 304: Jesus in the New Testament
- Religion 356: Death and Dying in World Religions

## 5. MORAL INQUIRY

This category is designed to develop an understanding of the means by which individuals and communities evaluate and respond to ethical problems, both personal and social. Minimum of 3 hours. Objective: Students will formulate and justify a position on an ethical problem.

- English 317: Journalistic Ethics
- Philosophy 203: Introduction to Ethics
- Philosophy 305: Biomedical Ethics

- Philosophy 331: Environmental Ethics
- Philosophy 343: Social and Political Philosophy (cf. Political Science 343, Sociology 335)
- Philosophy 361: Topics in Moral Philosophy
- Physical Education 355: Sports Ethics
- Political Science 342: Ethical Issues in Politics
- Political Science 356: War, Peace, and Security
- Religion 253: Biblical Ethics
- Religion 393: Global Issues and Values
- Sociology 369: Peacemaking

## 6. QUANTITATIVE REASONING (EXEMPTED WITH SAT M-680/ACT M-28)

This category is designed to develop competency in understanding and using numerical concepts and methods. Minimum of 3 hours. Objective: Students will demonstrate an understanding of numerical concepts and use appropriate methods to solve problems.

- BUSI 325. Statistics
- EDUC 341. Assessment in Education
- HLSC 304. Statistics for the Health Sciences
- MATH 140. Practical Statistics
- MATH 150. Quantitative Reasoning for the Liberal Arts
- MATH 170. Applied College Algebra
- MATH 180. Precalculus
- MATH 190. Calculus I
- PSYC 232. Behavioral Statistics
- SPST 105. Introduction to Sports Analytics

## 7. SCIENTIFIC UNDERSTANDING

This category is designed to develop an understanding of the natural world, the scientific method, and the forces and elements inherent in the natural order. Minimum of 7 hours. (Must include one lab science course and courses from two course prefixes) Objective: Students will describe scientific principles and apply methods of scientific inquiry.

### LAB Courses

- Biology 106: Contemporary Biologic Issues



- Biology 111: Organismal Biology I and Biology 107: Lab I
- Biology 112: Organismal Biology II and Biology 108: Lab II
- Biology 121: Anatomy and Physiology I
- Biology 122: Anatomy and Physiology II
- Chemistry 105: Issues in Chemical Sciences
- Chemistry 108: General, Organic, and Biological Chemistry
- Chemistry 111: General Chemistry I
- Geology 101: Introduction to Geology
- Geology 110: Environmental Geology
- Physics & Engineering 101: Conceptual Physics I
- Physics & Engineering 121: Classical Physics I
- Physics & Engineering 150: Introduction to Astronomy
- Psychology 351: Advanced Experimental Psychology

### **Non-LAB Courses**

- Biology 100: Science and Society
- Chemistry 101: Joy of Chemistry
- Education 367: Science in Early Childhood
- Geography 120: Physical Geography
- Geography 220: Earth's Climate System
- Geology 105: Geohazards
- Health Science 336: Principles of Strength and Conditioning
- Physical Education 149: Physiology of Exercise
- Physics & Engineering 100: Physics for Video Games
- Physics & Engineering 200: The Ideas of Modern Physics

## **8. HEALTH**

This category is designed to develop an understanding of important health issues and to foster choices for students' health throughout life. Minimum of 2 hours. Objective: Students will identify and evaluate biological, psychosocial, and/or behavioral factors that influence health.

- Health 200: Nutrition and Physical Fitness
- Health 345: Personal Health
- Health 380: Health Issues and Programs
- Health Science 151: Global Health

- Health Science 231: Nutrition Across the Lifespan
- Health Science 315: Public Health and Epidemiology
- Physical Education 101: Concepts of Wellness
- Physical Education 102-140: Physical Education Service Courses
- Psychology 101: Introduction to Psychology

## 9. ARTISTIC UNDERSTANDING AND EXPRESSION

This category is designed to develop an understanding of the role of the arts in the human endeavor. Minimum of 3 hours. Objective: Students will perform, create, or interpret artistic works.

- Art 112: Drawing I
- Art 120: Three-Dimensional Design
- Art 121: Ceramics I
- Art 131: Sculpture I
- Art 141: Photography
- Art 151: Introduction to Art
- Art 170: Graphic Design I
- Art 350: Art History I
- Art 351: Art History II
- Art 352: Art History III
- Communication 260: Oral Interpretation of Literature
- English 260: Introduction to Creative Writing
- French 350: Survey of French Cinema in English
- German 350: German Cinema in English
- MUSC: four consecutive semesters of the same applied music lessons or ensembles from the following: MUSC 131/331, 133/333, 135/335, 137/337, 141/341, 143/343, 160/360, 161/361, or 162/362
- Spanish 350: Hispanic Cinema in English
- Theatre 151: Introduction to Theatre
- Theatre 265: Design I: Explorations in Theatre Design
- Theatre 275: Acting I
- Theatre 350: History of Film

## 10. CULTURAL DIVERSITY

This category is designed to develop an understanding of diversity (gender, race, ethnicity, sexual orientation, age, etc.) in the contemporary world. Minimum of 3 hours. Objective: Students will recognize and examine the role of diversity in society.

- Communication 340: Gender Communication
- Communication 446: Interpersonal Communication
- Education 112: Educational Implications of Diversity
- English 235: Tradition of African-American Literature
- English 387: Topics in Literature and Gender
- French 211: Intermediate French I
- French 212: Intermediate French II
- German 211: Intermediate German I
- German 212: Intermediate German II
- Health Science 312: Social Gerontology
- History 220: U.S. Women's History
- History 322: Gender and History
- History 352: Latin American Film and History
- History 356: History of Modern Africa
- Political Science 131: Introduction to Comparative Politics
- Religion 261: Women and the Bible
- Religion 353: Religion and Gender
- Sociology 101: The Sociological Perspective
- Spanish 211: Intermediate Spanish I
- Spanish 212: Intermediate Spanish II
- Theatre 352: Dramatic Literature
- World 200: Cross-Cultural Communication

## 11. INTERNATIONAL PERSPECTIVES

This category is designed to develop an understanding of global societies, and a familiarity with patterns of social and political behavior in a comparative context, in order to lay the basis for responsible world citizenship. Minimum of 3 hours. Objective: Students will recognize and compare the social, cultural, and/or political patterns of global communities.

- Anthropology 201: Cultural Anthropology
- English 124: World Literature
- Geography 111: World Regional Geography
- History 110: Pre-Modern World History
- History 111: The Emergence of the Modern World I
- History 112: The Emergence of the Modern World II
- History 260: The Cold War in the Americas
- History 345: The Second World War

- History 346: Southeast Asian History
- History 348: The Western Impact on Modern Japan
- History 351: Modern Latin America
- Music 310: Excursions in World Music
- Nursing 430: Perspectives in Global Nursing and Health
- Philosophy 342: Religion and Philosophies of Asia (cf. Religion 342)
- Political Science 151: Introduction to International Relations
- Political Science 357: International Political Economy
- Sociology 350: Social Change in an International Perspective

## 12. WESTERN TRADITIONS

This category is designed to develop an understanding of social, political, cultural and behavioral dimensions of human existence in Western European traditions. Minimum of 3 hours. Objective: Students will describe and interpret the social, cultural, political, and/or behavioral dimensions of Western European traditions.

- English 123: Introduction to Literature
- English 231: British Literature to 1800
- English 232: British Literature after 1800
- English 394: Classical Mythology
- French 123: Masterpieces of Francophone Literature in English Translation
- German 123: Explorations in German Literature in English Translation
- History 310: Ancient History
- History 318: Nineteenth Century European History
- History 320: Twentieth Century European Europe
- Interdisciplinary 275: Arts and Humanities in Western Culture
- Music 121: Introduction to Music
- Philosophy 101: Introduction to Western Philosophy
- Political Science 121: Introduction to Public Administration and Policy
- Political Science 331: Politics of Western Europe
- Spanish 123: Explorations in Hispanic Literature in English Translation

## 13. THE U.S. EXPERIENCE

This category is designed to develop an understanding of the United States, its institutions, customs, culture, diversity of people and resources, and challenges facing the nation in the contemporary setting. Minimum of 3 hours. Objective: Students

will describe and evaluate how traditions, practices, or institutions address or inform the society and culture of the United States.

- Communication 320: Introduction to Popular Culture
- English 233: American Literature to 1865
- English 234: American Literature after 1865
- English 341: Nineteenth Century American Fiction
- English 343: Modern and Contemporary American Fiction
- English 351: Modern and Contemporary American Poetry
- Health Science 301: The American Health Care System
- History 105: United States History to 1877
- History 106: United States History since 1877
- History 230: The American Civil War
- History 374: Ohio History
- History 380: The History of the American Dream
- History 385: American Environmental History
- Interdisciplinary 240: Introduction to American Studies
- Music 110: History of Popular Music
- Nursing 460: Community Health Nursing
- Philosophy 353: Contemporary American Philosophy
- Political Science 111: American Political System
- Sociology 216: Social Problems in Contemporary America
- Sociology 301: American Society: Class and Culture
- Sociology 320: Racial and Cultural Minorities

### **Sequence for Meeting the General Education Requirements (Gen Ed)**

During their first year, traditional students should take ENGL 121 Composition and COMM 200 Fundamentals of Speech Communication, which comprise the core. Some first year students may want to take a science course. Typically first year students concentrate on the gen ed requirements and take no more than one or two classes in their prospective major. After taking Composition, students must complete two writing unit courses, usually one at the 100- or 200-level and one at the 300- or 400-level. At least one of the two must be at the 300- or 400-level.

A writing unit class is one that uses writing as a significant part of the learning process, not courses that teach writing per se. Therefore, writing unit classes are not those with the word “writing” in the title. They can be identified by a # sign before the name of the course in the online schedule. For example, #Emergence of the Modern World.

# DEGREE REQUIREMENTS

## 2018-2019 Degree Requirements

Three undergraduate degrees are offered. Majors in nursing receive the Bachelor of Science in Nursing (BSN). Qualified adult undergraduate degree completers earn the Bachelor of Science (BS) degree in six health-related majors (Community Health and Wellness, Healthcare Management, Health Science, Medical Laboratory Studies, Occupational Science, and Sport and Fitness Science), in three business-related majors (Business Management, Marketing, and Human Resource Management), and in the information systems major offered through the Muskingum Adult Program (MAP). Adult degree completion students should refer to the MAP Guidebook to learn more about the admission requirements for these programs. Traditional undergraduate students majoring in Biology, Chemistry, Computer Science, Conservation Science, Earth Science, Engineering Science, Environmental Science, Geology\*, Mathematics, Molecular Biology, Neuroscience, Petroleum Geology, Physics, Physics Education, or Psychology will also receive the Bachelor of Science degree. All other majors are awarded the Bachelor of Arts (BA).

\*There is a track available for students majoring in Geology to earn a BA degree. All undergraduate degrees require fulfillment of the following:

1. A minimum of 124 credit hours for the Bachelor of Arts and Bachelor of Science Degree; 127 for the Bachelor of Science in Nursing (a minimum of 124 for the RN to BSN). A maximum of 48 credit hours in any one discipline may be included in this total. In the case of courses of study leading to teacher licensure, the ACS-certified chemistry major, the Athletic Training major, the Engineering Science major, and the music major, the student may apply up to the minimum credit hours required for the major toward the 124 for graduation. A maximum of three physical education activities courses, three language tables, and ten music ensembles may apply within the 124 hours.
2. A minimum cumulative grade point average (GPA) of 2.0 for all work taken at Muskingum University; a minimum GPA of 2.0 for all courses in the major(s) and, where the option is taken, a minimum GPA of 2.0 for the minor(s).
3. A minimum of 40 credit hours earned in 300- and 400-level courses.
4. Satisfactory completion of at least one departmental or interdisciplinary major. All work within the specified discipline is counted as part of the major or minor. In the case of students pursuing multiple majors or minors in the same department, the GPA for each is calculated separately; an overall GPA of 2.0 in the academic discipline must be maintained. (Students pursuing multiple majors may write separate senior seminars, one in each of the disciplines involved, or with approval of each department chair, write one interdisciplinary seminar, credit for which is given in the department of their choice. Although the

interdisciplinary seminar counts toward the credit hour requirements of only one major, the project may fulfill the senior studies requirement of all departments involved.)

5. At least 12 credit hours of the major completed in the junior and senior years at Muskingum.

6. The last 31 credit semester hours toward graduation must be earned as a degree-seeking student at Muskingum University or in approved off-campus study.

7. Transfer students must successfully complete a minimum of 32 credit hours at Muskingum University (includes approved off-campus study programs).

Note: Muskingum adheres to the Ohio Board of Regents Transfer and Articulation Policy. Requirements for some programs may require a higher grade for transfer. For further information, transfer students need to consult the Transfer Admission information in the Admission section of this catalog.

8. Satisfactory completion of the General Education Requirements. All transfer students, including adult degree completers, should consult the Transfer Admission information in the Admission section of this catalog for more information about the transfer module.

## **COURSE DESCRIPTIONS**

### **ACCT 201 Financial Accounting**

Introduces the basic accounting theory and procedures for proprietorships, partnerships, and corporations.

### **ACCT 202 Managerial Accounting**

Covers the analysis and interpretation of accounting information for management planning, controlling, and decisions.

Prerequisite: ACCT 201.

### **ACCT 301 Intermediate Accounting I**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements.

Prerequisite: Minimum grade of C in ACCT 201.

## **ACCT 302 Intermediate Accounting II**

Examines the elements of modern financial accounting theory in the preparation of corporate financial statements. Prerequisite: Minimum grade of C in ACCT 201, ACCT 301.

## **ACCT 363 Cost Accounting**

Covers manufacturing cost accumulation for product costing and the analysis of costs for managerial decisions. Prerequisite: ACCT 201.

## **ACCT 364 Income Taxes**

Analyzes federal income tax laws and their application to individuals. Prerequisite: ACCT 201.

## **ACCT 410 Topics in Accounting**

Offers the student an opportunity to pursue the in-depth study of accounting theory not covered in other accounting courses. The course may be repeated for credit as the subject matter changes. Prerequisite: ACCT 302.

## **ACCT 411 Advanced Accounting**

Involves the accounting for partnerships, consolidations, foreign currency translation, and governmental units. Prerequisite: ACCT 302.

## **ACCT 412 Auditing**

Examines the concepts necessary to determine whether a business' financial statements have been prepared in accordance with generally accepted accounting principles. Prerequisite: ACCT 302.

## **ACCT 420 Accounting Information Systems**



Focuses on acquiring an understanding of business processes which are fundamental to contemporary auditing, professional, and legal considerations relating to the organization's internal control processes. Detailed material on business and internal control processes are central to this course, which stresses information, communication, and electronic commerce applied within the contexts of business processes, transaction cycles, and the internal control processes. Prerequisite: ACCT 301.

## **ACCT 421 Advanced Taxation**

The second course in the tax series and is a continuation of the Income Taxes course. Advanced taxation issues related to individual taxpayers are examined. In addition, the taxation of corporations, partnerships, exempt entities, estates, and trusts are covered. Prerequisite: ACCT 364.

## **ACCT 422 Governmental Accounting and Auditing**

Focuses on the unique aspects of the accounting methods that are used by governmental and not-for-profit entities. The course also examines audit procedures and requirements that are applicable to these entities. Prerequisite: ACCT 302.

## **ACCT 423 Software Applications for Accountants**

Focuses on business applications implementing EXCEL at both the introductory and intermediate levels, and Quickbooks. These skills are then applied to accounting exercises and practice sets. Prerequisite: ACCT 301.

## **ACCT 495 Seminar**

Enables the student to pursue in depth an approved research project in accounting. Prerequisite: ACCT 302.

## **ANST 250 Career Development in Animal Studies**

Orients students to the field of animal studies as well as to the array of career opportunities that can extend from a major in animal studies. Students are challenged to investigate the specific knowledge and skills required for job candidates in their area of interest as well as identifying potential employers. As part of the course experience, students are required to develop a presentation of career and employment options based on research conducted using resources available through the University's Office of Career Services. The seminar requires students to identify academic coursework as well as professional development experiences (e.g., internship opportunities, shadowing programs, research experiences) that are appropriate for their career

interests. Students submit a career development plan that highlights the knowledge, skills, and experiences they need to acquire as well as any needs they may have to clarify their goals.

## **ANST 495 Senior Seminar in Animal Studies**

A capstone course for students completing the animal studies major. The course involves reading and analysis of literature from the field. Students complete a capstone project that generally takes the form of a written literature review, developing a capstone experience that directly relates to the student's career interest area(s). Topics are selected in consultation with the supervising faculty member. Prerequisite: permission of the course instructor.

## **ANTH 201 Cultural Anthropology**

An introduction to the basic concepts, theories, and methods of cultural anthropology. It deals with the origin, nature, and dynamics of culture, and provides a cross-cultural comparison of the ways of humankind.

## **ANTH 352 Selected Topics in Anthropology**

Presents an opportunity to read and discuss in depth topics not covered or only partially covered in regular courses. Prerequisite: ANTH 201 or SOCI 101.

## **ART 112 Drawing I**

Introduces the fundamentals of two-dimensional composition through experiences designed to increase visual perception and provide technical skill. Students are introduced to visual concepts such as positive and negative space, linear perspective, and proportion. Discussion and critiques introduce aesthetic theories.

## **ART 120 Three-Dimensional Design**

A foundation course which is intended to be completed in the freshman year (or initial year of study) for the art major. The course introduces the fundamentals of three-dimensional compositions for the visual arts. The course is designed to increase visual perception and provide technical skills with fundamental three-dimensional problems. A portion of the course provides experience with the use of tools and materials required in fabrication of three-dimensional media of wood, paper, wire, clay,

metals, and new technologies, while another portion of the course focuses on design using traditional and computer related tools.

## **ART 121 Ceramics I**

Introduces methods and aesthetics from ancient and contemporary practices used worldwide. Fundamental three-dimensional design problems are explored using hand building and wheel throwing techniques. Basic clay and glaze formulation theory along with various firing procedures are included.

## **ART 131 Sculpture I**

Introduces three-dimensional design elements, criticism, media, technique, and conceptual concerns as employed in contemporary and historical sculpture produced worldwide. Inspiration, conception, and working philosophies are stressed.

## **ART 141 Photography**

Introduces the fundamentals of black and white photography. This course covers lenses, lighting, camera handling, and various techniques in digital photography. It also involves digital photo manipulation, matting, and displaying prints. Emphasis is on historical development of photography, the study of composition, and creative approaches of photographic expression.

## **ART 151 Introduction to Art**

Expands the student's awareness and understanding of the visual arts through art theory and critical analysis by emphasizing present, historical, and multi-cultural perspectives.

## **ART 170 Graphic Design I**

Introduces elements of two-dimensional, visual communication design. Highlights include an investigation of basic concepts and principles of graphic design, and an introduction to utilization of computer software programs in representation, creation, and study of designs. Students design and produce basic-level design projects in a computer-based environment.

## **ART 212 Drawing II**

A further development of the fundamentals presented in Drawing I, including a variety of media; subject matter including landscape, figure drawing, portrait, and still life; and approaches to personal expression in drawing. Prerequisite: ART 112.

## **ART 221 Ceramics II**

A thorough investigation of wheel throwing techniques, including a range of glazes and firings. Wheel aesthetics are contrasted with those of hand building. Prerequisite: ART 121.

## **ART 231 Sculpture II**

A more thorough study of sculptural techniques. Effective communication of conceptual concerns is stressed. Prerequisite: ART 131.

## **ART 241 Painting I**

Deals with the fundamentals of painting, including color theory, color mixing, preparation of canvas, and other grounds and care of materials. Aesthetic theories and criteria of excellence are introduced.

## **ART 270 Graphic Design II**

Includes computer-based graphic design areas, and teaches page design and layout of various types. Typography, image, space, color, and form will be integrated as the term progresses. Emphasis is placed on students' application of design concepts to communication purpose, solutions for specific client areas, and development of visual designs that effectively communicate the desired message. Prerequisite: ART 170.

## **ART 312 Drawing III**

Builds upon Drawing I and Drawing II with a focus on producing more personal and expressive drawing. Advanced composition, communication, content, and idea development are emphasized. Prerequisite: ART 212.

## **ART 321 Ceramics III**

An advanced investigation of one or more aspects of the field. Emphasis is on competent and informed individual initiative and creation. Prerequisite: ART 221.

## **ART 331 Sculpture III**

An advanced investigation of one or more aspects of the field with emphasis on competent and informed individual initiative and creation. Prerequisite: ART 231.

## **ART 341 Painting II**

Focuses upon personal expression and the decisions made in creative endeavors. Students explore individual solutions to painting problems and develop their own aesthetic and style. Prerequisite: ART 241.

## **ART 350 Art History I**

Introduces Western art from prehistory through Roman classicism and visual art from non-western cultures. Understanding of historical and cultural context is stressed.

## **ART 351 Art History II**

Investigates Western art from early medieval times through the end of the 1700s. Stylistic influences are stressed.

## **ART 352 Art History III**

An investigation of why and how Western art changes from the early 1800s to the present. Conceptual and multi-cultural influences are stressed.

## **ART 370 Graphic Design III**

Focuses on advanced graphic design concepts and ideas, as well as in-depth graphic design features on the computer. Production technology is discussed. Advanced graphic communication and typography concepts are studied. Graphic design in a

variety of programs in marketing, communications, advertising, public relations, and journalism is highlighted. Students work towards building finished portfolio contents. Prerequisites: Art 170 and 212, or permission of the instructor.

## **ART 380 Middle Level Art Education**

Studies art education methods, philosophies, and practices. Materials/media appropriately used for artistic expression in early childhood, elementary and middle school classrooms are used in laboratory projects. A comprehensive, creative study for teaching students PreK-8 is provided for those seeking multi-age licensure.

## **ART 381 Adolescent Art Education**

Provides the student intending to teach secondary art with information and methods necessary for teaching the secondary school art student.

## **ART 412 Life Drawing**

Consists of drawing from the nude, draped and clothed human figure from masterpieces in books or museums, with emphasis on study of structure, proportion and anatomy for artists. Various media and approaches to drawing figure are used. Prerequisite: ART 212 or permission of the instructor.

## **ART 441 Painting III**

Provides the advanced student with the opportunity to develop control and mastery of the techniques and methods acquired in ART 241 and ART 341. A personal aesthetic and style are emphasized. Prerequisite: ART 341

## **ART 455 Student Teaching in Primary/Middle Level Visual Arts**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school setting, grades K-3 or grades 4-8.

## **ART 457 Student Teaching in Secondary Visual Arts**

Involves students as practice teachers in a six-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school setting, grades 9-12.

## **ART 490 Senior Seminar and Capstone Assessment**

Provides the senior art major with a gallery exhibit experience. The student carries out all aspects of designing, publicizing, and hanging an exhibit of visual work done during college. The student completes the required portfolio competencies of written paper, interdisciplinary art, inter-cultural art, art history, and power points of images.

## **ART 491 Directed Study**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

## **ART 492 Directed Study**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

## **ART 493 Directed Study**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

## **ART 494 Directed Study**

Allows the advanced student to create independent work under faculty guidance with permission of the department chair.

## **ATHT 110 Introduction to Athletic Training I**

Presents an overview of the profession of athletic training as well as a survey of the fundamentals of athletic medicine, including an overview of injuries. This course is a requirement for those students wishing to apply for admission into the Athletic Training Program (ATP).

# **ATHT 120 Introduction to Athletic Training II**

Provides students with instruction on a variety of skills necessary to begin the practice of athletic training. This course is a requirement for those students wishing to apply for admission into the ATP. The course includes both classroom and laboratory components. Prerequisite: ATHT 110.

# **ATHT 170 Orthopedic Anatomy**

Focuses on the structural anatomy of the body, in particular the skeletal, ligamentous, musculo-tendinous and neurologic systems. The course prepares pre-athletic training students with the anatomy necessary to be successful in future athletic training courses. This course is a requirement for those students wishing to apply for admission to the ATP. Prerequisite: ATHT 110.

# **ATHT 201 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: Formal acceptance into the ATP.

# **ATHT 202 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: Formal acceptance into the ATP.



## **ATHT 250 Upper Extremity Assessment**

Entails the study of evaluation techniques for injuries to the thoracic and cervical spine, the head and the upper extremities. Review of anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined. The course is taught in both classroom and laboratory settings. Prerequisite: Formal acceptance into the ATP.

## **ATHT 255 Lower Extremity Assessment**

Entails the study of evaluation techniques for injuries to the lower extremities and lower back. Anatomy, injury recognition, muscle testing, treatment protocols and preventative measures are also examined. The course is taught in both classroom and laboratory settings. Prerequisite: ATHT 250.

## **ATHT 260 Therapeutic Intervention I**

Examines the broad field of therapeutic exercise and rehabilitation techniques. Didactic instruction covers various skills used in therapeutic rehabilitation of major body areas following injury or disease. Topics also include therapeutic modalities, and pharmacology. Prerequisite: Formal acceptance into the ATP.

## **ATHT 265 Therapeutic Intervention II**

Utilizes intervention strategies as applied to specific injury rehabilitation programs. Students design and implement programs in the rehabilitation of patients from injuries and conditions. Both classroom and laboratory settings are used. Prerequisite: ATHT 260.

## **ATHT 301 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: ATHT 201, 202, formal acceptance into the ATP.

## **ATHT 302 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: ATHT 201, 202, formal acceptance into the ATP.

## **ATHT 370 General Medical Conditions**

Focuses on clinical signs and symptoms of pathology, which will allow the practicing athletic trainer to recognize systemic illnesses and injuries. The use of pharmacological agents in acute and chronic illnesses and conditions is also discussed. Prerequisite: ATHT 265.

## **ATHT 375 Therapeutic Modalities**

Provides the student with the opportunity to develop knowledge of and proficiency in the theory and practice of the techniques and methods of therapeutic modalities (such as thermal and electromagnetic agents) which are used in the treatment and care of athletic injuries. Prerequisite: Formal acceptance into the ATP.

## **ATHT 395 Research Methods**

Introduces the basic skill necessary to critique research in athletic training. Students focus on the process of selecting a topic and then writing a manuscript to be submitted for publication. The course prepares the Athletic Training student for 495, Senior Seminar. Prerequisite: ATHT 370.

## **ATHT 401 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training

program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: ATHT 301, 302, formal acceptance into the ATP.

## **ATHT 402 Practicum**

Provides the student with clinical based opportunities within a variety of athletic training settings working under the direct supervision of a preceptor. Classroom and laboratory sessions are designed to review specific educational competencies and clinical proficiencies. Students complete integrated clinical proficiencies as required for completion of the athletic training program. Students are required to complete a minimum of 120 hours during the semester while assigned to a clinical rotation, in addition to one hour of classroom instruction each week. Clinical education rotations include a rotation in each of the following areas: upper extremity intensive, lower extremity intensive, non-orthopedic/non-sport intensive, and equipment intensive. Prerequisite: ATHT 301, 302, formal acceptance into the ATP.

## **ATHT 470 Organization and Administration**

A study of the concepts of healthcare organization and administration relative to athletic training. The course covers such topics as legal liability, fiscal management, facilities operation, personnel supervision, public relations, and organizational structures. Prerequisite: ATHT 395.

## **ATHT 495 Senior Seminar**

Enables the student to pursue in depth an approved research project with a focus on the evidence-based practice of athletic training. Students research a specific topic and prepare an oral presentation as well as a written paper. Prerequisite: ATHT 395.

## **ATHT 496 Current Concepts in Athletic Training**

Examines special topics pertaining to the field of athletic training and sports medicine. Topics may include nutrition, equipment utilization, women in athletics and/or other advanced topics in athletic training identified by students. This course also begins preparation for students taking the BOC Examination. Prerequisite: ATHT 495.

## **BIOL 100 Science and Society**

Intended for non-science majors, although a total of two credit hours from this course or Biology 106 may be applied toward the biology major. Offerings focus on an area of the biological sciences which has an impact on society. Discussions include the impact this area has on society and include an exploration of the use of scientific method. Each offering focuses on one primary topic area. Examples of a primary topic area include environmental science, conservation science, or human health.

## **BIOL 106 Contemporary Biologic Issues**

Intended for non-science majors, although two credit hours from any one of the following classes may be applied toward the biology major. In addition, more than one course may be taken for graduation credit, but only one counts for the gen ed requirement. Topical offerings provide students with current content knowledge within important fields of biological science and also serve as a platform for illustrating how scientific inquiry develops and addresses scholarly questions. Following are descriptions of the different course offerings:

- a. Environmental Science examines the basic principles of evolution, ecology, and population biology. These principles lay the groundwork for a detailed look at world biodiversity, conservation, sustainable resource use, and anthropogenic-based water and air pollution. Lecture and laboratory experiences are included.
- b. Conservation Science deals with the threats facing the Earth's biological diversity such as habitat destruction, overexploitation, and exotic species introductions. In addition, practical approaches to maintaining and managing biological diversity are examined and the critical linkages between ecology, economics, and politics are emphasized. Possible weekend field trips included. Lecture and laboratory experiences are included.
- c. Concepts in Evolution provide an introduction to fundamental principles underpinning contemporary evolutionary biology. In addition to lecture and text readings, weekly discussion meetings provide a forum for evaluating the extent to which evolutionary principles may provide a contextual framework for understanding a number of contemporary social issues. Lecture and laboratory experiences are included.
- d. Genetic Frontiers and Biotechnology surveys the scientific principles, applications and social implications of genetic engineering. Lecture and laboratory experiences are included.
- e. Human Biology surveys basic biological chemistry, scientific method, tissues and organ systems and applies this to demonstrate how biology influences our quality of life. Lecture and laboratory experiences are included.
- f. Human Diseases surveys microbes and disease with special emphasis on infectious diseases caused by bacteria and viruses. The characteristics of microbes, interaction between microbes and host, immunity to disease, and treatment are also emphasized. Lecture and laboratory experiences are included.

## **BIOL 107 Biology Laboratory I**

A laboratory course that utilizes observation and experimentation to explore the principles of evolution and the defining characteristics of several of the major animal phyla. Co-requisite: BIOL 111.

## **BIOL 108 Biology Laboratory II**

A laboratory course that utilizes observation and experimentation to study the structure and function of various organs and organ systems in vertebrates. Co-requisite: BIOL 112.

## **BIOL 111 Organismal Biology I**

Studies the principles of biological evolution; examines the defining characteristics of all of the major animal phyla and introduces the major principles of ecology. Co-requisite: BIOL 107.

## **BIOL 112 Organismal Biology II**

Studies the structure and function of various organ systems in vertebrates. Examples from invertebrates are frequently used to emphasize diversity, adaptability, and evolution. Corequisite: BIOL 108.

## **BIOL 121 Anatomy & Physiology I**

Focuses on the anatomy and physiology of the human body. This is the first part of a two-course offering in human anatomy and physiology which covers how the body is organized, support, and regulated.

## **BIOL 122 Anatomy & Physiology II**

Focuses on the anatomy and physiology of the human body. This is the second part of a two-course offering in human anatomy and physiology and primarily focuses on the maintenance and continuity of the human body.

## **BIOL 213 Functional Histology**

Studies the structure and function of animal tissues and the methods used in preparing them for microscopic examination. Lecture and laboratory experiences are included. Prerequisites: BIOL 112, 108.

## **BIOL 221 Vascular Plant Systematics**

Deals with the classification, evolution, and natural history of selected families of vascular plants with emphasis on the regional flora. Students are required to develop their own plant collection. Prerequisites: BIOL 111, 107.

## **BIOL 226 Introduction to Cell and Molecular Biology**

Focuses on cell structure and function, membrane structure and function, cellular energy, photosynthesis, glycolysis, cellular respiration, DNA, gene activity, the regulation of gene activity, recombinant DNA, and biotechnology. Prerequisites: BIOL 112 and 108 or 121 or 122.

## **BIOL 232 Vertebrate Natural History**

Deals with the identification, classification, and natural history of vertebrate animals of the local region. Lecture, laboratory, field experiences, and possible Saturday field trips are included. Prerequisites: BIOL 111, 107.

## **BIOL 240 Animal Behavior**

Examines the basic principles of animal behavior as derived from evolution, ecology, ethology and development. The course focuses on important biological activities, such as communication, mating, foraging, migration, predator-prey interactions, and parental care. Prerequisites: BIOL 111, 107, 112, 108.

## **BIOL 304 Evolution**

Provides an in-depth exposure to contemporary evolutionary biology through lectures and selected readings from the primary literature. The course not only emphasizes information germane to the theory itself, but also important questions currently

facing researchers in the field. Course requirements include three exams and a semester-long writing project. Prerequisite: BIOL 111, 107, 112, 108.

## **BIOL 305 Human Genetics**

Provides an overview of fundamental principles, concepts, and knowledge in the field of genetics. The course places particular emphasis on those aspects of genetics that are germane to human heredity and health. Prerequisite: Permission of the department. Does not count toward the biology major.

## **BIOL 306 Genetics**

Surveys the fundamental principles of heredity and variation. Lecture and laboratory experiences are included. Prerequisite: BIOL 112 and 108 or 121 and 122.

## **BIOL 308 General Ecology**

Examines the interrelationships between organisms and the environments in which they live. Lecture, laboratory, extensive field work, and possible Saturday field trips are included. Prerequisite: BIOL 111, 107.

## **BIOL 312 Microbiology**

Studies the relationship between microorganisms and our lives. The course explores the nature of microorganisms with special emphasis placed on bacteria of importance to medicine and industry. The course also explores body defense mechanisms. Lecture and laboratory experiences are included. Prerequisites: BIOL 112 and 108 or 121 and 122, CHEM 111, 112.

## **BIOL 321 Advanced Botany**

An evolutionary study of the evolution, morphology, and life-history traits of the major plant and algae groups. Lab emphasizes anatomy. Prerequisite: BIOL 111, 107.

## **BIOL 336 Cellular Physiology**

Studies the cellular processes involved in membranes, bioenergetics, control systems, neurochemistry, muscles, and glands. Laboratory emphasizes basic techniques used in cell biology and biochemistry. Prerequisites: BIOL 112, 108, 226, CHEM 111, 112.

## **BIOL 346 Pathophysiology**

Provides an understanding of how physiological changes manifest themselves under altered health states. Upon completion of the course students will possess an understanding of how altered health states change normal physiological conditions. Additionally, students will understand basic methods of detection and putative treatment strategies. Prerequisites: BIOL 112 or 121 and 122.

## **BIOL 368 Fundamental Neuroscience**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy. Prerequisites: BIOL 112, 108, 226. Cross listed as NRSC 368.

## **BIOL 373 Comparative Vertebrate Anatomy**

Studies the origin, relationships, and comparative morphology of a representative series of chordates. Lecture and laboratory experiences are included. Prerequisites: BIOL 112, 108.

## **BIOL 375 Molecular Biology**

Studies the biochemical and molecular interactions within living cells with special emphasis placed on protein structure, gene structure and expression, gene regulation, and genetic engineering. Lecture and laboratory experiences are included. Prerequisites: BIOL 112, 108, 226, CHEM 111, 112.

## **BIOL 385 Topics in Biology**

Provides an opportunity to study areas of biology not covered by the established curriculum. Prerequisite: Permission of instructor.

## **BIOL 420 Senior Seminar**



Involves a discussion of a series of scientific papers covering a biological topic. In addition, students search the biological literature related to the topic and prepare an oral presentation as well as a written paper. Prerequisite: biology major and junior standing.

## **BIOL 421 Biological Research**

Involves laboratory and/or field research on a biological problem. Prerequisite: BIOL 420 and permission of the instructor.

## **BIOL 422 Biological Research**

Involves laboratory and/or field research on a biological problem. Prerequisite: BIOL 421 and permission of the instructor.

## **BUSI 221 Organizational Management**

Examines the classical, behavioral, and quantitative schools of management theory, with particular attention given to current research and practice. The nature of authority and responsibility, departmentation, line and staff relationships, organizational growth, managerial development, decision-making, and leadership of both profit and non-profit organizations are among the topics discussed.

## **BUSI 241 Marketing**

Studies the problems of distributing goods, both industrial and consumer. Special attention is given to the increased importance of marketing techniques in modern economies.

## **BUSI 318 Managerial Finance**

Studies the management of fixed and working capital, short and long-range financial planning, money and capital markets, expansion of income administration, business failures, and business reorganization. Prerequisite: ACCT 201, ECON 215.

## **BUSI 325 Statistics**

Concerned with the analysis of data and application of the principles of probability theory, decision theory, and statistical inference to the analysis of business and economic data. Emphasis is placed on the construction of economic models in order to gain an understanding of business and government.

## **BUSI 326 Financial Analysis and Investment**

Evaluates analytic techniques and alternative financial instruments available to the investor. Emphasis is placed on security selection, portfolio management, and the operation of markets. Prerequisite: ACCT 201, ECON 215.

## **BUSI 360 Business Law**

Studies law as it relates to business, including torts, crimes, contracts, commercial paper, and anti-trust laws.

## **BUSI 411 Topics in Business**

An in-depth study of current theory in selected areas and its application to organizational operations. The course may be repeated for credit as the subject matter changes. Prerequisite: By section specified at each offering.

## **BUSI 412 International Business**

Studies business in a global context, stressing cultural, political, and economic environments facing international business and operational aspects of international management, international marketing, and international finance. Prerequisite: BUSI 221, 241.

## **BUSI 413 Software Applications for Business**

Focuses on implementing EXCEL and Quickbooks at both the beginning and intermediate levels. ACCESS is implemented at the beginning level.

## **BUSI 414 Business Ethics**

Explores how managerial ethical behavior affects organizations, employees, communities, and society. Emphasis is placed on current situations facing managers as they operate in an environment demanding increased corporate ethical behavior.

## **BUSI 415 Human Resource Management**

Provides students with a thorough understanding of Human Resource Management issues, practices, and procedures. Through the use of classroom lectures, experiential activities, and cases, students develop the ability to transfer advanced knowledge into practical applications when confronted with human resource opportunities, problems, and challenges.

## **BUSI 416 Professional Selling**

Involves the study of direct person-to-person communication that facilitates mutually satisfying exchanges of value. Students discuss and analyze the techniques, myths, issues, ethics, and roles in sales. Many skills that a successful salesperson needs are addressed through both in-class and out-of-class activities. Prerequisite: BUSI 241.

## **BUSI 417 Advertising**

Familiarizes the student with the primary methods by which goods, services, ideas, people, and organizations can be advertised to an audience. A strong emphasis is on the issues surrounding the management and planning of an integrated marketing communications strategy. Prerequisite: BUSI 241.

## **BUSI 419 Consumer Behavior**

Analyzes the various inputs to, influences on, and outcomes of the consumer buying decision process. Among the topics discussed are consumer motivation; exposure and attention to marketing stimuli; learning, memory, and retrieval; attitude formation and change; problem recognition, information search, evaluation, and purchase decision making; social, cultural, and situational influences on consumer behavior; and various special topics. Prerequisites: BUSI 221, 241.

## **BUSI 420 Management Information Systems**

Provides a thorough understanding of how the manager can use the computer in problem solving. It is assumed that students understand the role of the computer as a problem-solving tool.

## **BUSI 422 Marketing Research**

Studies the tools and techniques available for gathering and analyzing information to be used by those making strategic marketing decisions. Prerequisite: BUSI 241.

## **BUSI 423 International Marketing**

Broadens the principles of marketing to include corporations conducting business in a global environment. Special attention is given to social, cultural, political, economic and other factors affecting international marketing operations. Prerequisite: BUSI 241.

## **BUSI 430 Employment Law for Business (MAP)**

This course provides students with an overview of the employment-related legal environment impacting the 21st Century American workplace. The course focuses on an overview of the rights and obligations of both the employer and the employee and provides practical examples of how employment laws impact the business setting.

## **BUSI 431 Topics in Human Resource Management (MAP)**

This course is designed to be a topics course within the specific discipline of Human Resource Management. The course allows the instructor and the B.S. Program in Human Resource Management to take advantage of the most topical and relevant concepts and issues in human resources. This course adds needed depth to a student's learning in the Human Resource major (MAP only), and the course should involve both theoretical and case study as well as applied assignments in the topical area(s).

## **BUSI 440 Marketing Analytics & Strategy (MAP)**

This course is designed to be a two-fold, integrated approach to understanding and applying appropriate marketing planning and strategy. The first part of the course examines the proper way to organize, analyze, and integrate relevant and reliable research data and information so that it can be used most efficiently and effectively in strategic marketing. The second part of this course is a comprehensive examination of marketing planning and strategy, culminating with the student developing a marketing plan.

## **BUSI 450 Strategic Management (MAP)**

This course is designed to be a comprehensive examination of strategic management of organizations and how an upper-level manager formulates and implements an appropriate strategy. At a minimum, students will investigate the following: the strategic management process, mission statements, objectives, external and internal analysis, business level strategies, competitive dynamics, financial statement analysis, ethical issues in strategic management, corporate level strategies, international strategies, strategy implementation and organizational change, and corporate governance. Integration of the various management and business disciplines previously studied and experienced as well as the opportunity to develop managerial decision-making abilities.

## **BUSI 495 Seminar**

Enables the student to pursue an approved research project in business theory. May be taken twice for credit by students completing both the Marketing and Business Management majors. Prerequisite: Departmental approval.

## **BUSI 496 Bachelor of Science Seminar in Business (MAP)**

This course is designed to be the capstone experience for a student in the B.S. major degree of study, Business Administration, Marketing, or Human Resource Management. The seminar course requires the student to engage in a significant scientific research project of applied professional project in the discipline of their major.

## **CHEM 101 Joy of Chemistry**

An application of scientific methods of inquiry through a survey of fundamental chemical concepts as they relate to contemporary societal topics of interest. Examples of topics covered include food chemistry, chemistry of brewing, chemistry and your body, forensic chemistry, environmental chemistry, chemistry and art. It is designed for non-science majors to gain an appreciation for the natural sciences. This course is not open to those who already have credit for a 100-level chemistry course.

## **CHEM 105 Issues in the Chemical Sciences**

Designed for non-science majors. Attention is directed to the dynamic and social nature of chemical science by relating contributions of individuals and groups to the advancement of chemical knowledge. Sections of the course are dedicated to

exploring the role of chemistry in selected areas of importance to society through the presentation of a set of fundamental chemical concepts. This course is not open to those who already have credit for a 100-level chemistry course.

## **CHEM 108 General, Organic, and Biological Chemistry**

The study and application of fundamental chemical concepts in the context of the allied health sciences. Special attention is paid to the areas of general chemistry that can be directly applied to the understanding of organic and biological chemistry.

## **CHEM 111 General Chemistry I**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture.

## **CHEM 112 General Chemistry II**

Serves as foundation courses for the areas of physical, analytical, inorganic, organic, and biochemistry. Emphasis is placed on the topics of atomic structure, periodicity, stoichiometry, bonding, thermochemistry, kinetics, equilibria, and electrochemistry. The companion laboratories focus on standard and instrumental laboratory methodologies with experiments chosen to illustrate key topics from lecture. Prerequisite: CHEM 111

## **CHEM 200 Laboratory Safety**

Emphasizes “safety first” through experiment planning, including habitual attention to risk assessment and consideration of hazards for oneself, fellow workers, and the public. The course concentrates on developing a prudent attitude toward dealing with laboratory hazards and fosters a determination to make every effort to be informed about risks and reduce them to a minimum. Prerequisite: previous or concurrent enrollment in a laboratory science course.

## **CHEM 213 Organic Chemistry I**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological,

environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy. Prerequisite: CHEM 112.

## **CHEM 214 Organic Chemistry II**

A study of the structure, properties, preparation, and reactions of different classes of organic compounds, including aliphatic hydrocarbons, alcohols, carbonyl compounds, amines, and aromatic compounds, with applications of this material to biological, environmental and industrial processes. Special emphasis is placed on reaction mechanisms and fundamental principles to gain an understanding of the basic principles of organic reactions. The laboratory stresses synthesis, isolation, and purification of carbon compounds along with qualitative organic analysis including different methods of spectroscopy. Prerequisite: CHEM 213

## **CHEM 235 Environmental Chemistry**

Focuses on the study of current environmental problems including acid rain, ozone depletion, global climate change, urban air pollution, and ground water contamination. Laboratory work emphasizes concepts of special importance in environmental chemistry as well as field sampling and analysis. Prerequisite: CHEM 112.

## **CHEM 240 Topics in Forensic Chemistry**

A presentation and discussion of forensic chemistry topics of current interest and importance. This is a seminar-style course that provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature. Prerequisite: CHEM 111 or permission of the instructor.

## **CHEM 295 Chemistry Research**

Provides the opportunity for investigation of research questions in the field of chemistry through laboratory and/or library research as supervised by a departmental faculty member. Four to five hours of work per week during the semester is equivalent to one credit hour. May be repeated for credit. Does not count toward the major. Graded S/U. Prerequisite: Permission of the department

## **CHEM 315 Physical Chemistry I**

The study of the macroscopic, microscopic, and molecular phenomena in chemical systems. Concepts of thermodynamics, kinetics, equilibrium, quantum chemistry, and spectroscopy are developed. Prerequisite: CHEM 112; Co-requisite: MATH 200, PHEN 121.

## **CHEM 316 Physical Chemistry II**

The in-depth study of molecular phenomena in chemical systems. Concepts of atomic and molecular structure, quantum chemistry, and spectroscopy are developed. A working knowledge of computational chemistry is developed. Prerequisite: CHEM 315.

## **CHEM 335 Analytical Chemistry**

A study of the modern methods of chemical separation and analysis. In the laboratory emphasis is placed on application of modern instrumentation to chemical problems. Prerequisite or co-requisite: CHEM 315.

## **CHEM 355 Advanced Laboratory in Chemistry**

Emphasizes thermodynamics, kinetics, quantum chemistry, and analysis through the application of modern analytical and physical techniques. Prerequisite: CHEM 214, 315.

## **CHEM 418 Biochemistry I**

The study of the chemistry of enzyme function and regulation, and the chemistry of metabolic pathways. Emphasis is placed on the structure-activity correlations and mechanisms of reactions, as well as on the thermodynamics and kinetics of the reactions involved. The lab portion of the course includes current techniques for isolation and analysis of biomolecules and the study of enzymatic processes. Prerequisite: CHEM 214.

## **CHEM 419 Biochemistry II**

The study of the biosynthesis of amino acids and proteins, nucleic acids, and lipids, and carbohydrates. These are analyzed at the molecular and mechanistic level through a detailed study of structure, function, and reactions of the compounds involved. Prerequisite: CHEM 214.



## **CHEM 425 Advanced Inorganic Chemistry**

The study of atomic, molecular, and crystalline solid state structures of the elements, inorganic compounds, and organometallic compounds. Bonding models and applications of molecular and solid state symmetry are considered. Properties and selected modern applications such as catalysis are investigated. The lecture and laboratory emphasize a variety of chemical synthesis methods and instrumental methods of analysis. Prerequisite or co-requisite: CHEM 315.

## **CHEM 440 Topics in Forensic Chemistry**

A seminar-style course that examines important topics in the field in depth, through readings, discussions, and presentations. Prerequisite: CHEM 214, 240.

## **CHEM 441 Forensic Chemistry Laboratory**

Focuses on the practical applications of instrumentation used in a forensic laboratory for the chemical analysis of various types of physical evidence such as accelerants, explosives, paints, fibers, glass, and suspected drug substances. Prerequisite: CHEM 240, Pre- or co-requisite: CHEM 214.

## **CHEM 445 Topics in Modern Chemistry**

Focuses on selected special topics from the chemistry disciplines: analytical, inorganic, organic, physical, or biochemistry. The topics are chosen for their importance to modern chemistry. Prerequisite: Completion of all curricular requirements for the chemistry minor.

## **CHEM 454 Chemistry Seminar and Literature Research**

Involves comprehensive literature research on a chemistry-related topic of the student's choice, and writing of a detailed report on the findings. The course also features oral presentations, as well as the writing of a research proposal on the same topic researched in the literature. In addition, students are required to attend seminars by visiting scientists, organized by the department. All departmental faculty participate in this course. Co-requisite: CHEM 355.

## **CHEM 455 Chemistry Seminar and Laboratory Research**

An independent experience under the guidance of one or more faculty members, designed to expose students to methods of investigation and inquiry, and enhance critical thinking and problem-solving skills. The course also includes oral presentations and writing of a final scientific paper. In addition, to stay current in the field being researched, students continue the literature research begun in CHEM 454. Students are also required to attend a weekly seminar meeting. Prerequisites: CHEM 355, 454.

## **CHFST 495 Senior Seminar**

The capstone course for child and family studies majors. The student engages in an in-depth study of a topic that brings together the core and area of specialization and involves a literature review. The topic is selected in consultation with the professor.

## **COMM 101 Communication Practicum**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation. Registration is with the department chair at final registration. Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

## **COMM 120 Introduction to Communication**

Examines concepts and the various disciplines found in communication with emphasis on the centrality of the discipline across a wide variety of contexts and its relevance to society. This course is offered as an exploratory course for first-year students or students in their first year at Muskingum.

## **COMM 200 Fundamentals of Speech Communication**

Develops knowledge of the basic principles, types, and theories of communication. It also provides practice in selecting and evaluating speech materials, organizing and phrasing ideas, controlling voice and body, and in critical thinking and listening. Special attention is paid to those students who may have issues with speech apprehension.

## **COMM 201 Communication Practicum**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation. Registration is with the department chair at final registration. Restrictions: maximum of two COMM practica hours per year; maximum of four

COMM practica hours toward major or minor.

## **COMM 205 Extemporaneous Speaking**

Emphasizes the basic principles of this form of speech. The student furthers work in basic public speaking skills while learning to assemble materials efficiently and logically within a limited time period for class presentations.

## **COMM 206 Voice and Diction**

Involves intensive drill, on a phonetic basis, in articulating the sounds which make up the English language, with attention to the production of good vocal quality and expression. A study of the history of English sounds gives the student the necessary background to understand how spoken English evolved and to develop skills in use of the International Phonetic Alphabet.

## **COMM 207 Introduction to Speech Pathology**

Introduces and emphasizes the basic principles of speech language pathologies and audiology. Students learn the causes and origins of speech, language, and audiology processes in human communication. Prerequisite: Permission of the instructor.

## **COMM 225 Communication Theory**

Examines major theories of communication studies in terms of requirements for theory, theory development and associated research and application.

## **COMM 260 Oral Interpretation of Literature**

Deals with the oral re-creation of literature for a specific audience, placing the interpreter as intermediary between the author's intent and the needs of the listener. The interpreter may choose to work with prose, poetry, non-fiction prose or drama.

## **COMM 301 Communication Practicum**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation. Registration is with the department chair at final registration. Restrictions: maximum of two COMM practica hours per year; maximum of four

COMM practica hours toward major or minor.

## **COMM 315 Argumentation**

Explores the reasoning process in both theory and practice. Students develop both sides of an argument in classroom debates. A written brief is prepared on a contemporary question which has been researched and debated in class. Prerequisite: COMM 200.

## **COMM 316 Intercollegiate Forensics**

Teaches various aspects of speech competition. Students learn how to compete in public address, oral interpretation, limited preparation events, and debate. Restrictions: may be repeated with a maximum of 6 hours counted toward the major, ten toward graduation requirements. Prerequisite: Permission of instructor.

## **COMM 320 Introduction to Popular Culture**

Teaches students about the history, evolution, current trends and practices in United States popular culture. The course emphasizes readings and research that deal with the definition of popular culture, genres of popular culture, history of the discipline of popular culture, as well as the topics of race, gender, body images, celebrities, sports, rituals, formulas, stereotypes, and the myths and beliefs associated with popular culture in the United States.

## **COMM 335 Small Group Communication**

Examines the principles and forms of small group interaction with emphasis on problem solving and cooperative and reflective thinking.

## **COMM 340 Gender Communication**

Focuses on gender issues in the field of communication. Specific areas that are studied include the history of men's and women's movements, gender-related theories, and gender differences in various areas, such as nonverbal communication, verbal communication, interpersonal communication, music videos, advertising, film and television.

## **COMM 345 Interviewing**

Provides instruction and practice in the forms of communication most often utilized in the business and professional world. Emphasis is divided between eliciting and providing information in settings most common to the business and professional world.

## **COMM 355 Organizational Communication**

Introduces theoretical and practical approaches to communication within an organization. The course emphasizes the history of communicating in business settings and possible choices for approaches to communicating with others in professional venues.

## **COMM 360 Research Methods**

Develops the research skills necessary to complete the senior communication research project. Open to communication majors and minors in the spring of their first or second year. Prerequisite: COMM 225 or theatre major.

## **COMM 395 Special Topics in Communication**

Provides the opportunity to study selected areas, such as popular culture and storytelling and communication technologies. Maybe repeated once for credit as content changes.

## **COMM 401 Communication Practicum**

Provide laboratory or workshop experiences in speech communication, telecommunications, or interpretation. Registration is with the department chair at final registration. Restrictions: maximum of two COMM practica hours per year; maximum of four COMM practica hours toward major or minor.

## **COMM 446 Interpersonal Communication**

Explores the processes of daily interaction dealing with all aspects of strength and weakness in communication situations. Emphasis is on significant relationships with groups, individuals, and self. Students learn to recognize themselves in interpersonal conflict situations and to cope with those problems through class interaction.

# COMM 495 Seminar

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor. Prerequisite: COMM 360.

# CPSC 100 Introduction to Computer Science

Presents an overview of fundamental computer science topics and an introduction to computer programming. Overview topics include an introduction to computer science and its history, computer hardware, operating systems, digitization of data, computer networks, Internet and the Web, security, privacy, AI, and databases. This course also covers variables, operators, while loops, for loops, if statements, top down design (functional decomposition), use of an IDE, debugging, and arrays.

# CPSC 111 Computer Science I

Provides more in-depth programming, including software engineering topics such as unit testing and the use of version control. Basic data structures covered include arrays, lists, sets, maps. Basic algorithm efficiency concepts are covered along with simple searching and sorting. Other techniques such as graphical user interface programming, exceptions, recursion, designing classes (no inheritance), file input/output are covered. Design techniques such as encapsulation and UML diagramming are covered. Prerequisite: CPSC 100.

# CPSC 120 Computer Applications

Consists of a series of projects to explore the use of specific application software packages. Prerequisite: CPSC 100 or equivalent

# CPSC 211 Computer Science II

Provides yet more in-depth programming, including software engineering topics, such as Model-View-Controller design and more formalized unit testing. Additional data structures covered include stacks, queues, priority queues, trees, graphs, and hash tables. Object-oriented programming is introduced, along with associated UML diagramming techniques. Java Generics are covered. Prerequisite: CPSC 111.

# CPSC 220 Applied Computer Programming

Studies with each offering a particular computer programming language (e.g., C++, Python, PHP, COBOL, Java, and Perl) and the applications in which that language is traditionally used. Prerequisite: CPSC 111 or permission of instructor

# CPSC 230 Systems Programming

Provides an understanding of the interface between computer hardware and software. The course covers computer hardware, activation records and address spaces, a practical assembly language (like ARM), writing C programs, how C code is compiled into assembly level programs, and how these programs are compiled, linked, and loaded into memory. This course also provides an understanding of Linux/Unix administration fundamentals, including user creation, permissions, installations from source, and simple server configuration. Prerequisite: CPSC 111

# CPSC 320 Algorithm Analysis

Examines formal concepts of algorithm efficiency including Big O, Theta, and NP theory. Algorithmic techniques studied include brute force, simulation, divide and conquer, dynamic programming, greedy algorithms, backtracking, branch and bound, and parallel algorithms. Time and space efficiency is analyzed from a practical and theoretical viewpoint throughout this course. Advanced searching and sorting techniques are covered. Classic algorithms and their relevance to real problems are examined. Typical data structures used as examples include hash tables, trees, and graphs. Parallel programming is explored. Prerequisites: CPSC 211, MATH 225

# CPSC 335 Computer Security

Covers operating system and network level security topics. Typical application level attacks such as buffer overruns are analyzed and solutions covered. This course includes basic coverage of TCP/IP and cryptography in the context of network security. Typical network attacks such as denial-of-service, spoofing, etc. are covered, as are systems administration level analysis of possible attacks and intrusions via Linux logs. Prerequisite: CPSC 230

# CPSC 340 Programming Languages

Develops the concepts of language structure and uses these as a basis for comparing several languages. Formal language definitions are introduced, and the concepts of syntax, semantics, and pragmatics are discussed. The emphasis is on languages

with inherently different programming paradigms than students have been exposed to in other courses. Prerequisite: CPSC 211.

## **CPSC 345 Mobile Application Development**

Practices the development of mobile applications. Design considerations specific to mobile applications are covered, including limited resources, battery life, intermittent connectivity, etc. Also covered are the networking concepts needed to connect a mobile applications to a web-based server, and to use third party APIs such as Google Maps, location-based programming, etc. Projects are done in the context of one or more popular mobile platforms, such as Android and iOS. Prerequisites: CPSC 230, 365.

## **CPSC 350 Computer Architecture**

Studies the theoretical and practical design principles of computer organization. The performance effects of pipelining, superscalar design, VLIW, and parallel processing are examined. Prerequisite: CPSC 211.

## **CPSC 355 Software Engineering**

Formalizes the software engineering topics covered in previous courses, in the context of what would be required in a real-world corporate environment. Typical software development methodologies are discussed (e.g. waterfall, agile, test-driven design, etc.). UML Diagramming are covered. Students work in teams, analyze requirements, participate in code reviews, etc. Human Computer Interaction fundamentals are covered, along with ethical and social issues related to the business of computing. The different roles involved with large scale development are discussed. Prerequisite: CPSC 211.

## **CPSC 365 Web Applications and Database Management Systems**

Studies and practices the development of dynamic data-driven web applications, in the context of the languages and technologies used in typical shared hosting environments. Topics include database design, including entity-relationship modeling and normalization, designing and implementing data models for a web application, developing the server side code necessary to interact with that data model, developing the web pages for the application, and an introduction to the use of dynamic scripting on the client side. Web application security is covered throughout. Prerequisite: CPSC 111

## **CPSC 400 Programming Projects**



Enables students to design, implement, and test a program of their own choosing. Proposed projects are approved by a faculty member who then meets with the student on a weekly basis. A final report is prepared and presented at the completion of the project. The course can be repeated once for credit. Prerequisite: Permission of the instructor.

## **CPSC 430 3D Game Programming**

Examines the basic issues in 3D rendering and collision detection and associated algorithms, suitable for programming a 3D game engine. Students explore data structures used for 3D games. Basic artificial intelligence techniques used in games are also covered in the context of a 3D game engine. Prerequisites: CPSC 320, MATH 230.

## **CPSC 450 Operating Systems**

Examines the major operating system concepts in the context of modern operating systems such as UNIX, Linux, and Windows. Topics include process management, synchronization, memory management, file systems, protection and security. Topics are examined from both the operating system and programmer perspectives. In addition, the course discusses more advanced system administration topics. Prerequisites: CPSC 230, 320.

## **CPSC 480 Computer Networks**

Examines the fundamental aspects of computer networks. Topics include layered network architecture, application level protocols, transport protocols, routing and flow control mechanisms, data link protocols, wireless networks, protocol design, and client-server programming. In addition, this course introduces techniques for designing and building a complex computer network. Prerequisites: CPSC 230, 320.

## **CPSC 490 Advanced Topics in Computer Science**

Is a study of a specialized topic in the computing field, such as Animation, Pattern Recognition, Networking, Theory of Computation, Alife, or advanced study of a particular language (such as Java, C++, Perl, or VRML). Prerequisite: Permission of the instructor.

## **CPSC 495 Computer Science Seminar**

Provides a weekly discussion of new advances in the field of computer science and their effects on society. Presentations are given by invited speakers, faculty, and students. The course can be repeated once for credit. Prerequisite: Permission of the instructor.

## **CVSC 231 Conservation Science Discussion**

Presentation and discussion of important conservation issues in conservation science. Conservation science majors must take this course or 431 at least once. Either course may be repeated for additional credit.

## **CVSC 331 Conservation Biology**

Provides an in-depth examination of the major issues and challenges that define this exciting new discipline. The course places a great deal of emphasis on exploring the role and limitations of science in addressing contemporary conservation problems. The course design includes lecture, laboratory, and field trips.

## **CVSC 431 Topics in Conservation Science**

A team-taught seminar course that uses readings from recently published articles and focused discussion to explore important conservation issues. Conservation science majors must take this course or 231 at least once. Either course may be repeated for credit.

## **CVSC 437 Conservation Science Research Seminar I**

Involves a discussion of a series of scientific papers covering a conservation topic. In addition, students search the biological literature related to the topic, prepare two literature reviews, and submit a scholarly research proposal at the end of the semester. Prerequisite: CVSC 331 or permission of instructor.

## **CVSC 438 Conservation Science Research Seminar II**

Involves field, laboratory, or library research on a conservation problem. Prerequisite: CVSC 437

## **CVSC 439 Conservation Science Research Seminar III**

Involves field, laboratory, or library research on a conservation problem. Prerequisite: CVSC 438

## **CRMJ 101 Introduction to Criminal Justice**

Serves as a broad overview to the criminal justice field by examining such topics as criminal behavior and law enforcement, the court system and judicial processes, and corrections and rehabilitation.

## **CRMJ 230 American Law Enforcement**

Discusses the philosophy and history of policing, the different types of police agencies, and the framework in which law enforcement agencies must work, as well as the relationship between police agencies and their communities. Prerequisite: CRMJ 101.

## **CRMJ 250 American Courts**

Focuses on the legal concepts comprising the foundation of the American criminal court process, state and federal court systems, courts of limited and general jurisdiction, the actors within the court system, and the role of the courts on the other members of the criminal justice system. Prerequisite: CRMJ 101.

## **CRMJ 270 American Corrections**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered. Prerequisite: CRMJ 101. Cross listed as SOCI 270.

## **CRMJ 290 Spanish for Criminal Justice**

Is a Spanish language course offered to students in Criminal Justice and related fields. This course is intended to expand speaking and listening skills related to criminal justice as well as to promote a deeper understanding of Spanish-speaking communities in the United States from a socio-cultural point of view. Prerequisite: SPAN 212, its equivalent or permission of the instructor. Cross listed as SPAN 290.

## **CRMJ 331 Criminal Investigation**

Focuses on the methods of crime scene searches and documentation; physical evidence collection and preservation; information gathering; interviews and interrogations and case preparation. Prerequisites: CRMJ 101 and 230.

## **CRMJ 340 Organized Crime**

Focuses on illegal organizations (e.g., the Mafia), whose formally organized activities are used to gather money through criminal enterprises and how they impact American society, including the social and economic effect on society, along with law enforcement efforts to minimize that impact.

## **CRMJ 342 Criminology**

Examines various theories of crime causation, their history and development, and related crime control policies and practices. It also addresses the extent of crime in society, types of crime, and crime measurement issues. Emphasis is on the social context of crime and supportive evidence of various theoretical perspectives. Prerequisite: CRMJ 101.

## **CRMJ 344 Criminal Procedure and Law**

Involves the convergence of law enforcement, courts, legislation, and the Constitution. Students study constitutional rights of individuals and limitations on police authority as interpreted by the courts. Additionally, students study crime definitions and elements of crime as written by legislatures and interpreted by courts. Substantive law of Ohio is emphasized.

## **CRMJ 350 Trial Evidence and Techniques**

Examines the nature, use, and admissibility of evidence against the accused in a criminal trial. Students study the Federal Rules of Evidence, including relevance, hearsay, opinion testimony, lay and expert witnesses and authentication, and apply their knowledge through the completion of a mock trial. Prerequisite: CRMJ 250.

## **CRMJ 360 White-Collar Crime**

Examines the many varieties, definitions, measurements, and classifications of white collar crimes, the damages to individuals and society, and the responses of the criminal justice system, administrative agencies, and criminologists. Students explore crimes against consumers, unsafe products, environmental, medical and computer crime, fraud, and crimes by the government.

## **CRMJ 372 Juvenile Justice**

Examines the juvenile justice system, including differences between the adult justice system based on values, court decisions and laws. The concepts of delinquency and delinquency control are discussed, as well as the roles of law enforcement, courts, and corrections in the juvenile justice system.

## **CRMJ 373 Community Corrections and Intermediate Sanctions**

Examines the policies, procedures, practices, and personnel involved in community-based corrections. Alternatives to incarceration are emphasized in their historical, philosophical, social, and legal contexts. Students discuss current issues and trends in this growing area of the criminal justice system. Prerequisite: CRMJ 101.

## **CRMJ 375 Death Penalty**

Examines legal, empirical, and policy issues related to capital punishment. The course uses judicial decisions, social science research, and case studies to explore historical, philosophical, moral, procedural, and political aspects of capital punishment.

## **CRMJ 376 Child Maltreatment**

Examines the typologies and complexities of child maltreatment. Students investigate the development of the modern child welfare system as well as risk factors for and consequences of child maltreatment. Different forms of child maltreatment – including physical abuse, neglect, sexual abuse, fetal abuse, and Munchausen by Proxy Syndrome – are examined. Students explore mandated reporting requirements, investigating maltreatment reports, court proceedings, and forensic interviewing of children.

## **CRMJ 390 Topics in Criminal Justice**

Provides students with a semester-long intensive study of a topic in criminal justice under the supervision of department faculty.

## **CRMJ 395 Research Methods**

Introduces the basic concepts involved in social science research, with a focus on criminal justice/criminology. Students develop an understanding of the methods and techniques used to describe, explain, predict, and evaluate research issues. Emphasis is placed on developing informed consumers of research.

## **CRMJ 495 Senior Seminar**

Is a capstone experience for seniors in Criminal Justice. Through extensive individual study, students learn to utilize research techniques and sources; integrate earlier courses; engage in an extensive writing experience; gain experience in oral communication; and develop independence, self-reliance and creativity. Prerequisite: CRMJ 395 and senior status.

## **DMD 101 Digital Media Design Practicum**

Provides laboratory or workshop experiences in digital media design. Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

## **DMD 201 Digital Media Design Practicum**

Provides laboratory or workshop experiences in digital media design. Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

## **DMD 301 Digital Media Design Practicum**

Provides laboratory or workshop experiences in digital media design. Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

## **DMD 395 Topics in Digital Media Design**

Provides the opportunity for upper level students to study advanced areas in digital media not offered as formal courses. Such topics could include, but are not limited to, dynamic website design, web 2.0 applications, and game design.

## **DMD 398 Directed Design Project**

Gives students the opportunity to propose, plan and execute a client-based project in design. Projects can include, but are not limited to, graphic and logo design, website design and implementation, or interactive applications. The classroom component covers workplace communication, negotiation of expectations and deadlines, and evaluation of outcomes. The workplace component includes client meetings and in-studio work hours. Prerequisites: MEDIA 300, ART 170, or permission of the instructor.

## **DMD 399 Internship**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit in 399 counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U. Prerequisite: Junior standing, 2.5 GPA and instructor permission. Cross listed as JOURN 399, MEDIA 399, PBRL 399.

## **DMD 400 Principles of Interactive Design**

Provides a survey of research literature surrounding the emergent concept of interactivity in mediated environments. Students develop awareness of the opportunities and complexities that interactive potential can add to traditional media designs. Emphasis is placed on identifying and meeting the needs of the end-user when developing interactive experiences. Students have the opportunity to use multimedia software applications to present their designs. Prerequisite: MEDIA 300.

## **DMD 401 Digital Media Design Practicum**

Provides laboratory or workshop experiences in digital media design. Restrictions: maximum of two DMD practica hours per year. Does not count toward the requirement of the DMD major.

## **DMD 495 Seminar**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor. Prerequisite: DMD 400.

## **ECON 215 Principles of Microeconomics**

Concentrates attention on the determination of prices for goods and factors of production.

## **ECON 216 Principles of Macroeconomics**

Presents a general description of the American economy and the theory of income determination and income fluctuations. Prerequisite: ECON 215.

## **ECON 311 Money and Banking**

Examines the role of money in the economy, the instruments of monetary and fiscal policy, and the techniques of commercial banking, the Federal Reserve System, interest rates and institutions affecting the money market. Prerequisite: ECON 215, 216.

## **ECON 314 Public Finance**

Surveys government income, expenditures, and transfer payments at the local, state, and national levels. Particular attention is given to fiscal policy, problems of taxation and incentives, and principles of debt management. Prerequisite: ECON 215, 216 or permission of instructor.

## **ECON 333 Intermediate Microeconomic Theory**

Develops the methodology of economics and uses this to provide explanations about pricing of commodities and employment of factor services under conditions of full employment. Prerequisite: ECON 215, 216.

## **ECON 334 Intermediate Macroeconomic Theory**

Examines the relationships among the aggregate markets for commodities, money, bonds, and labor. Emphasis is placed on analytical explanations for the determination of national income, output, employment, interest rates, and the price level. Prerequisite: ECON 215, 216.

## **ECON 361 International Trade**

Examines the reasons for and gains from trade among nations, as well as the impact of trade restrictions. Prerequisite: ECON 215, 216, or permission of instructor.



## **ECON 362 International Finance**

Examines monetary exchange rates, the balance of payments, capital flows, and the impact of international activity on domestic economies. Prerequisite: ECON 215, 216, or permission of instructor.

## **ECON 411 Topics in Economics**

Provides the advanced student an opportunity to study selected topics in economic theory. The course may be repeated as the subject matter changes. Prerequisite: ECON 215, 216.

## **ECON 423 Contemporary Issues**

Covers current issues in macroeconomic or microeconomic policy, with emphasis changing with each offering. Students are given the opportunity to explore applications of basic economic theory and models to help understand such issues as monetary policy, the role of the Federal Reserve, tax policy, unemployment, social security, and Medicare reform. A specific list of subjects to be covered will be made available with each course listing. Prerequisites: ECON 215, 216.

## **ECON 425 Econometrics**

Involves the empirical testing of economic hypotheses using, primarily, linear regression. The results can be used to determine how closely theory corresponds to observed behavior, to investigate which theories best explain behavior and to forecast what future conditions may produce. This course is designed to introduce students to basic econometric techniques. Possible remedies to the most frequently encountered problems are also discussed. Prerequisite: A minimum grade of C in BUSI 325.

## **ECON 435 Government and Business**

Considers the role of government in the American economy and examines contemporary governmental policies toward the private sector of the economy from both a legal and an economic viewpoint. The main topics are the enforcement of anti-trust in the unregulated sector and the improved regulation of industries subject to government controls. Prerequisite: ECON 215, 216, or permission of instructor.

## **ECON 495 Seminar**

Enables the student to pursue an approved research project in economic theory. Prerequisite: ECON 333.

## **EDUC 110 Introduction to Education**

Studies the purposes and practices of education, helping students determine whether they wish to become professional teachers. Topics include history of education, philosophy of education, careers in education, motivation and discipline, analysis of teacher behavior, organization and goals of schools, the teacher, and the law. Required field experience: 12 hours.

## **EDUC 112 Educational Implications of Diversity**

Presents a picture of the increasing diversity found within educational institutions and the implications it has for educators in developing both policy and practice. Prerequisite or co-requisite: EDUC 110, or child and family studies major. Required field experience: 12 hours of observation and 10 hours of tutoring.

## **EDUC 211 Individual Topics**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour. Prerequisite: EDUC 110, 112.

## **EDUC 220 Mathematics Content for Early Childhood and Intervention Specialist Teachers**

Develops knowledge and skills in number sense, measurement, data, statistics, probability, algebra, and geometry concepts that relate to the K-12 Ohio Learning Standards in mathematics.

## **EDUC 309 Early Childhood Education and Curriculum**

Provides students with the historical, philosophical, psychological, and social foundations of early childhood education. It also provides the curricular and instructional framework for providing meaningful, developmentally appropriate learning experiences, and accommodations for diverse populations of young children (ages 3 through 8). This course includes direct

interaction with both typically and atypically developing preschoolers. Prerequisite: Admission to the teacher education program. Required field hours: 10. Prerequisite or co-requisite: PSYC 205, 220.

## **EDUC 311 Individual Topics**

Is a supervised clinical field, research, or independent study in education under the direction of a faculty member. It is designed to enable students to have learning experiences that extend beyond required coursework. The course requires periodic meetings with the course instructor, the writing of a journal, and a final written report, in addition to 30-35 hours of field or clinical work for each credit hour. Prerequisite: EDUC 110, 112 and admission to the teacher education program.

## **EDUC 312 Developmentally Responsive Middle Schools**

Provides comprehensive understanding of the nature and needs of early adolescents in grades 4-9 with an emphasis on applying this knowledge to the classroom and the total school environment. The course focuses on characteristics of developmentally responsive schools for young adolescents, as well as the rationale that supports such characteristics. Topics include interdisciplinary teaming, teacher guidance programs, grouping and scheduling concerns, curriculum, pedagogy assessment strategies for culturally and developmentally diverse students, and the application of educational technology. Required field hours: 20 Prerequisite: Admission to the teacher education program.

## **EDUC 313 Curriculum and Instruction for the Adolescent**

Provides a foundation in curriculum and instruction for adolescent and young adults with emphasis on motivation, instructional planning, classroom structure, management, discipline, models of teaching, assessment, and learning styles. Required field hours: 20. Prerequisite: Admission to the teacher education program.

## **EDUC 314 Multi-Age Curriculum and Instruction**

Provides a foundation in curriculum and instruction for teachers of multi-age subject areas, i.e., foreign language, music, physical education and visual arts. Required field hours: 30. Prerequisite: Admission to the teacher education program.

## **EDUC 315 The Arts in Early Childhood**

Is designed to provide the knowledge, skills, and dispositions required to effectively integrate art, music, movement, and theater into developmentally appropriate curriculum and instruction for young children. The course balances theory and practice, presenting the arts both as a means of enhancing the development of young children, and as the promotion of creativity and exploration. Prerequisite EDUC 309.

## **EDUC 316 Children's Literature**

Involves the study of classic and contemporary children's literature in a variety of genres. Emphasis is placed on the selection and use of high-quality and developmentally-appropriate materials to support the reading process. Prerequisite: Admission to the teacher education program.

## **EDUC 330 Serving Individuals with Exceptionalities**

Investigates the nature and needs of individuals with exceptionalities across the lifespan, the etiologies of different exceptionalities, the identification process, and the continuum of placement and service alternatives. An emphasis is placed on the need of the intervention specialist to collaborate with other professionals to develop individualized education programs that enable learners to be successful in their least restrictive environments and to access services needed for learner independence. Ten hours of clinical experiences with individuals with different exceptionalities are required. Prerequisite: EDUC 110 and admission to the teacher education program.

## **EDUC 334 Family-Centered Practices**

Develops the knowledge and skills needed to provide appropriate educational opportunities for children in the context of family, community, and social service structures. This course emphasizes the development of communication and collaboration skills needed to interact effectively with parents, family services, and community agencies and to provide transition services across age levels. Technologies designed to promote successful communication are utilized. Also included is direct interaction with preschoolers with disabilities and their families as well as with community agencies and school-based programs serving young children through specific field experiences. Required field experience: 20 hours. Prerequisite: EDUC 309, 330, or Child and Family Studies major.

## **EDUC 335 Educational Technology**

Develops knowledge and skills to integrate technology effectively into the classroom to support teachers in instruction, delivery, assessment, intervention and adaptation. This course is based on the National Education Technology Standards and

the Ohio Technology Academic Content Standards. Prerequisite: EDUC 110 and admission to the teacher education program.

## **EDUC 340 Nature and Needs of Students with Disabilities**

Provides an in-depth examination of the state and federal legislation, policies, and procedures that define the field of special education. The learning, emotional, behavioral, adaptive, and medical characteristics and needs of students with disabilities and dual exceptionalities are explored in detail. Learner strengths and challenges are addressed from a variety of perspectives, with emphasis placed on assistive technology, English language learning, access to the general curriculum, life-long learning, and personal advocacy. Required field experience: 20 hours. Prerequisite: EDUC 330.

## **EDUC 341 Assessment in Education**

Explores the variety of roles that assessment plays in P-12 education. The course includes basic assessment principles, response to intervention (RTI), quantitative data analysis, the assessment teaching cycle, formative and summative assessment. Value-added dimensions of assessment are presented and related to candidates' licensure areas and the Ohio Teacher Education System (OTES). Also addressed are aspects of assessment related to providing inclusive services to students with exceptionalities, including making accommodations and modifications and using relevant assistive technology. Required field experience: 20 hours. Prerequisite: Admission to the teacher education program. Prerequisite or Co-requisite: EDUC 330

## **EDUC 362 Integrating Language Arts and Social Studies in Early Childhood**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on the Ohio Academic Content Standards in language arts and social studies to diverse populations of young children in inclusive settings. Required field experience: 10 hours. Prerequisite: Admission to the teacher education program and EDUC 309 (or 309 or 312 or 313 or 314 for special education majors).

## **EDUC 366 Mathematics in Early Childhood Education**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on the Ohio Academic Content Standards in math to diverse populations of young children in inclusive settings. Required field experience: 10 hours. Prerequisite: Admission to the teacher education program and EDUC 309 (or 309 or 312 or 313 or 314 for special education majors).

## **EDUC 367 Science in Early Childhood Education**

Develops the knowledge and skills necessary to provide developmentally appropriate and effective instruction based on the Ohio Academic Content Standards in science to diverse populations of young children in inclusive settings. Required field experience: 10 hours. Prerequisite: Admission to the teacher education program and EDUC 309 (or 309 or 312 or 313 or 314 for special education majors).

## **EDUC 370 Phonics and the Process of Reading**

Develops linguistic and cognitive foundations for reading in an integrated language arts context. Emphasis is on the knowledge base of reading and on an introduction to comprehension strategies, the writing process, curriculum development, assistive technology, and assessment and diagnosis of reading difficulties. Additional emphasis is placed on phonics, phonemic awareness, and word recognition in an integrated language arts context. The course fulfills the state requirement in phonics for Early Childhood Education and Middle Childhood Education majors. Prerequisite: Admission to the teacher education program.

## **EDUC 371 Emergent and Beginning Reading**

Focuses on the research, methods, and materials used in developmentally appropriate pre-reading and reading instruction for diverse emergent and beginning readers. Required field experience: 20 hours. Prerequisite: EDUC 370.

## **EDUC 372 Reading Methods for Middle Childhood**

Focuses on the research, methods, and materials appropriate for teaching reading to diverse learners in grades 4-9. Emphasis is on integrated curriculum strategies including knowledge, selection, and use of high quality children's literature. Includes use of phonics and word study instruction as appropriate for the young adolescent reader, as well as study of the nature of the English language. Required field experience: 20 hours. Prerequisite: EDUC 370.

## **EDUC 375 Professional Practices in Mathematics**

Focuses on participation in professional mathematics organizations, the use of technology in the mathematics classroom, mathematics education research including best practices, and Euclidean geometry. Prerequisite: Admission to the teacher education program.

## **EDUC 382 Social Studies Methods for Middle Childhood Educators**

Develops knowledge and skills necessary to provide instruction based on national social studies standards and state curriculum models for students in grades 4-9, with an emphasis on the use of a variety of instructional approaches for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to students' lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology. Required field experience: 20 hours. Prerequisite: EDUC 309 or 312 (or 313 or 314 for special education majors).

## **EDUC 383 Language Arts Methods for Middle Childhood Educators**

Develops knowledge and skills necessary to provide instruction based on national language arts standards and state curriculum models for students in grades 4-9 with an emphasis on use of a variety of instructional approaches appropriate for culturally, linguistically, and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate reading, speech, writing, and literature with the broader curriculum, develop literacy skills relevant to students' lives, honor individual differences, and teach basic skills of communication, including the application of education technology. Required field experience: 20 hours. Prerequisite: EDUC 312 (or 309 or 313 or 314 for special education majors).

## **EDUC 384 Science Methods for Middle Childhood Educators**

Provides knowledge and skills necessary to provide science instruction consistent with national and state curriculum models for students in grades 4-9 with an emphasis on the use of a variety of instructional approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to student's lives, honor individual differences, and teach basic skills of inquiry and communication, including the application of educational technology. Required field experience: 20 hours. Prerequisite: EDUC 312 (or 309 or 313 or 314 for special education majors) .

## **EDUC 385 Math Methods for Middle Childhood Educators**

Provides knowledge and skills necessary to provide math instruction consistent with national and state math curriculum models to students in grades 4-9 with an emphasis on the use of a variety of instruction approaches appropriate for culturally and developmentally diverse classrooms. The course prepares students to utilize approaches to teaching and learning which integrate content relevant to students' lives, honor individual differences, cultivate skills in recognizing and solving problems and provide awareness of relevant teaching tools, including manipulative materials and educational technology. Required field experience: 20 hours. Prerequisite: EDUC 312; (309 or 312 or 313 or 314 for special education majors).

## **EDUC 391 Integrated Language Arts Methods for the Adolescent**

Focuses on special methods of teaching language arts in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards. Required field experience: 20 hours. Prerequisite: EDUC 313.

## **EDUC 392 Integrated Math Methods for the Adolescent**

Focuses on special methods for teaching mathematics in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards. Required field experience: 20 hours. Prerequisite: EDUC 313.

## **EDUC 394 Integrated Science Methods for the Adolescent**

Focuses on special methods of teaching science in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards. Required field experience: 20 hours. Prerequisite: EDUC 313.

## **EDUC 395 Integrated Social Studies Methods for the Adolescent**

Focuses on special methods of teaching social studies in grades 7-12 with emphasis on integrated and interdisciplinary instruction, adaptations for learners with special needs, content specific reading strategies and applications of educational technology, and the Ohio Academic Content Standards. Required field experience: 20 hours. Prerequisite: EDUC 313.

## **EDUC 412 Reading and Writing for Information**



Develops strategies, techniques and skills for strengthening the reading and writing skills of diverse learners in the content areas in early childhood. Includes applications of educational technology. Required field experience: 10 hours. Prerequisite EDUC 371.

## **EDUC 413 Reading in the Content Areas**

Develops strategies, techniques, and skills for strengthening the reading skills of diverse learners in the content areas in the middle school and high school. Includes applications of educational technology. Required field experience: 10 hours. Prerequisite: EDUC 309 or 312 or 313 or 314.

## **EDUC 414 Reading Assessment and Intervention**

Examines research-based principles, techniques, and materials used in the assessment of reading skills and in the diagnosis of reading difficulties and intervention strategies for addressing them. Addresses cultural and linguistic differences in the assessment phases. Includes applications of educational technology. Required field experience: 10 hours. Prerequisite: EDUC 371 or 372.

## **EDUC 418 Professional Practices for Early Childhood**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of young children. Emphasis is placed on transitioning into P-3 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her portfolio.

## **EDUC 419 Co-teaching and Collaboration in Education**

Taken as part of the professional semester, develops the knowledge and skills needed to communicate and collaborate effectively with colleagues, students' families, and the broader community.

## **EDUC 420 Proactive Approaches to Classroom Management and Support**

Taken as part of the professional semester, addresses the knowledge and skills needed to establish a safe, positive and supportive environment for all children. Emphasis is placed on developing specific strategies for providing school-wide and targeted behavioral support to students, as well as preparing and organizing resources and maximizing the use of instructional time.

## **EDUC 432 Student Teaching in Special Education**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance in settings that provide services for students identified with mild to moderate disabilities. Part of the professional semester.

## **EDUC 434 Instructional Services for Children with Mild/Moderate Special Needs**

Focuses on the selection and implementation of instructional strategies for students with disabilities who need targeted and/or intensive services. Emphasis is placed on skill development in selected intensive instructional approaches in reading, mathematics, and written expression. Required field experience: 15 hours. Prerequisite: EDUC 340.

## **EDUC 449 Student Teaching in Early Childhood**

Is a 14-week supervised experience in planning for instruction taken as part of the professional (student teaching) semester, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in an early childhood setting, pre-kindergarten through grade 3. Part of the professional semester.

## **EDUC 450 Middle Level Student Teaching**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a middle level setting, grades 4 through 9. Part of the professional semester.

## **EDUC 451 Student Teaching in the Secondary School**

Is a 14-week supervised experience in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on student performance completed in a secondary setting, grades 7 through 12. Part of the professional semester.

## **EDUC 455 Student Teaching in Early/Middle Level Physical and/or Health Education**

Is a supervised experience under the guidance of a cooperating teacher and university faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a primary or middle school physical education and/or health setting, grades K-3 or grades 4-9. Part of the professional semester.

## **EDUC 457 Student Teaching in Secondary Level Physical and/or Health Education**

Is a supervised experience under the guidance of a cooperating teacher and Muskingum faculty member in a minimum of six weeks clinical placement involved in planning for instruction, creating an environment for student learning, teaching for student learning, and reflecting on students' performance completed in a secondary school physical education and/or health setting, grades 9-12. Part of the professional semester.

## **EDUC 461 Student Teaching Seminar**

Is an opportunity for student teachers to synthesize the teacher education knowledge base and practice teaching experience through large and small group interaction with a focus on linking theory to practice in their student teaching placements. Part of the professional semester.

## **EDUC 465 Professional Practices in Middle Level Education**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of middle level learners. Emphasis is placed on transitioning into grades 4-9 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her professional portfolio.

## **EDUC 466 Professional Practices in Secondary Schools**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction in inclusive settings with diverse populations of secondary school learners. Emphasis is placed on transitioning into grades 7-12 school settings as entry year/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her professional portfolio.

## **EDUC 468 Professional Practices in Special Education**

Taken as part of the professional semester, provides candidates with additional opportunities to develop the knowledge, skills, and dispositions necessary for providing effective instruction to students with disabilities in their least restrictive environment, with a particular focus on intensive behavioral support and transition planning. Emphasis is placed on transitioning into K-12 school settings as entry year intervention specialists/resident educators. The culminating activity is a formal exit interview during which the candidate shares his/her professional portfolio.

## **EDUC 623 Clinical Practice in Early Childhood Education (MAP)**

Provides a guided teaching experience with children in grades pre-kindergarten–3 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching, with those hours divided between two settings: pre-kindergarten/kindergarten and grades 1–3. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building’s mentor criteria can be assigned to the individual. Permission of Program Director required.

## **EDUC 626 Clinical Practice for Intervention Specialist (MAP)**

Provides a guided teaching experience with children with identified mild to moderate disabilities in grades kindergarten–12 under the supervision of a qualified cooperating teacher and a University supervisor. It requires a minimum of 360 hours of full-day practice teaching in one or more service settings, including at least 120 hours of instruction in a resource or self-contained classroom. In instances where the student is already in a position that is consistent with the requirements of the clinical practice placement, appropriate components of the course may be completed in that placement if a cooperating teacher who meets that building’s mentor criteria can be assigned to the individual. Permission of Program Director required.

# **EDUC 627 Clinical Practice & Professional Portfolio Development Seminar (MAP)**

Provides an opportunity for students in their respective clinical practice experiences to synthesize what they have learned and experienced through large and small group interactions with a focus on linking research and theory to practice in their classrooms. Focuses on personal reflection on participant's paths into the teaching profession and provides opportunities to collaborate with other future and current educators. Students also complete their professional portfolios. Permission of Program Director required.

## **ENGL 110 Fundamental English**

Offers a study of grammar, punctuation, mechanics, and usage. Writing from the sentence to the paragraph level and short essays. Does not count in the major, minor, education concentration, or gen ed. Prerequisite: Placement or permission of instructor.

## **ENGL 121 Composition**

Requires students to write between five and six thousand words, applying rhetorical principles of literate discourse—principles as demonstrated in samples of effective writing by writers of diverse backgrounds. Includes grammar, levels of usage, the purposes of language, writing for different purposes, and audiences. Does not satisfy hours for the major or minor. Prerequisite: Placement or completion of ENGL 110. ENGL 121 is a prerequisite for all ENGL courses except 110.

## **ENGL 123 Introduction to Literature**

Explores common topics and themes as expressed in various literary genres. Students read, respond to, and analyze works of literature, and learn how to find connections between literature, our culture, ourselves, and the human condition. Emphasis is on the western tradition of literature. Either ENGL 123 or 124 may be used to count toward the English major/minor, but not both. Prerequisite: ENGL 121.

## **ENGL 124 World Literature**

Explores common topics and themes as expressed in notable works of literature from around the world. Students read, respond to, and analyze works of literature, and learn how to find connections between literature, various cultures, ourselves, and the human condition. Emphasis is on the non-western tradition of literature. Either ENGL 123 or 124 may be used to count toward the English major/minor, but not both. Prerequisite: ENGL 121.

## **ENGL 201 Advanced Writing**

Includes study and practice in the methods of organization and use of evidence to help students write more effectively and persuasively. Students read essays by writers of diverse backgrounds and learn to write for different purposes and audiences. Prerequisite: ENGL 121.

## **ENGL 202 Business Writing**

Concentrates on clarity and orderliness in preparing business correspondence, studies, reports, and proposals. Prerequisite: ENGL 121.

## **ENGL 207 Print Writing and Reporting**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct. Cross listed as JOURN 207. Prerequisite: ENGL 121.

## **ENGL 231 British Literature to 1800**

Studies the major literary movements and figures of British culture from Anglo-Saxon writings through the Neo-Classic Period. Prerequisite: ENGL 121.

## **ENGL 232 British Literature after 1800**

Examines the development of poetry and prose in Britain from the Romantic writers to the present. The political and intellectual contexts, as well as the subjects and styles of selected authors of both genders, are studied. Prerequisite: ENGL 121.

## **ENGL 233 American Literature to 1865**

Surveys American literature from the Colonial Era through the age of Romanticism. Genres include essays, Native American legends, captivity narratives, slave narratives, short fiction, the novel and lyric poetry. Intellectual and historical contexts, as well as key authors, are covered. Prerequisite: ENGL 121.

## **ENGL 234 American Literature after 1865**

Surveys American literature from the Age of Realism to the present day. Genres include essays, short fiction, drama, poetry, and the novel. Intellectual and historical contexts, as well as key authors, are covered. Prerequisite: ENGL 121.

## **ENGL 235 African-American Literature**

Examines the major trends in African-American literature, using historical, political, and social contexts. Genres include poetry, fiction, the slave narrative, and drama. Prerequisite: ENGL 121.

## **ENGL 250 Topics in Literature, Film, and Culture**

Provides for study of a certain topic through works of literature, supplemented by film or other art forms. Possible topics include fantasy literature, science fiction, or something more broad such as war, love, or the family. May be repeated with topic change. Prerequisite: ENGL 121.

## **ENGL 260 Introduction to Creative Writing**

Explores various genres and helps students to develop their individual perspectives and voices. The course involves writing exercises and prompts, group discussions of creative work, and many opportunities for feedback and revision. Enrollment preference to sophomores and above. Prerequisite: ENGL 121.

## **ENGL 306 Creative Writing**

Is an introductory writer's workshop exploring the genres of fiction, poetry, and creative non-fiction, with simultaneous exploration of the creative act and the critical response through class participation and evaluation. Emphasis is on form as

realized vision. Prerequisite: ENGL 121.

## **ENGL 311 Adolescent and Young Adult Literature**

Is a critical study of literature intended for adolescent and pre-adolescent readers. Themes include coming of age, formation of identity, community and society, the journey, and other common themes in YA literature. Students become familiar with a variety of YA genres, which may include dystopian fiction, sci fi and fantasy literature, contemporary realistic fiction, non-fiction, and multimodal texts. Attention is given to issues of censorship of YA literature and pedagogical resources for the use of YA literature in the classroom and how the identity formation process is affected when adolescents encounter people from different racial, ethnic, cultural, religious, and/or economic backgrounds. Prerequisite: ENGL 121.

## **ENGL 316 Public Relations Writing**

Is a study of the current methods of writing copy for agencies, corporations, and not-for-profit organizations. Focuses on the writing of press releases, with an analysis of their purpose, value, and content. Prerequisite: ENGL 121.

## **ENGL 317 Journalistic Ethics**

Studies ethical problems and issues in mass communication with a framework of basic theories and social roles of mass media. Surveys the major ethical issues that concern journalism. Describes ethical dilemmas that confront broadcast and print journalists. Matters of journalistic morality, codes of ethics, codes of conduct, taste, libel, shield laws, and photo guidelines are covered. Prerequisite: ENGL 121.

## **ENGL 319 Topics in Creative Nonfiction Writing**

Provides students the opportunity to explore the principles and practice of creative nonfiction writing. Topics may include memoir, personal essay, travel, food, humor, science, or others. May be repeated once with topic change. Prerequisite: ENGL 121.

## **ENGL 320 Principles of Literary Study**

Explores the theoretical principles and the critical viewpoints based on them which underlie the thoughtful, purposeful study of literature and applies these principles to key literary works. Prerequisite: ENGL 121.



## **ENGL 323 Shakespeare**

Is an intensive study of Shakespeare's writings, including selected sonnets, comedies, histories, tragedies, and romances, with special attention to the major themes and to the Elizabethan and Jacobean contexts of his plays. The course covers the practices and conventions of theatrical performance in Shakespeare's time and his development as a dramatist. Prerequisite: ENGL 121.

## **ENGL 329 Romantic and Victorian Literature**

Explores the relation of nature to culture in major Romantic and Victorian poetry and representative prose sections, the position of art, and the process of myth and metaphor in nature/culture relations. Prerequisite: ENGL 121.

## **ENGL 331 History of the British Novel**

Studies the novel as an important literary and social development in Britain and follows some of the important changes in the structure, purpose, and audience of the novel through the eighteenth and nineteenth centuries. (Included: Defoe, Austen, Dickens, Eliot, and Hardy). Prerequisite: ENGL 121.

## **ENGL 333 Modern and Contemporary British Fiction**

Examines the directions British fiction has taken in response to a changing social and literary scene: two world wars, the decline of the British Empire, the rise of working class, women, and minority writers. The course considers experimental and traditional writers from Joyce to the present, including Joyce, Woolf, Lawrence, and Forster. Prerequisite: ENGL 121.

## **ENGL 341 Nineteenth Century American Fiction**

Studies the works of the American romantics, then moves to the realism, regionalism, and naturalism of the later part of the century. Authors studied may include Irving, Hawthorne, Melville, Twain, Chopin, Chesnutt, Crane, and Jewett.

## **ENGL 343 Modern and Contemporary American Fiction**

Studies the variety and richness of American fiction since the turn of the century, from the novelists of the 1920s through post-World War II writing and the contemporary novel. Topics include the 1920s novel, the war novel, and women and minority

writers. (Included: Wharton, Hemingway, Faulkner, Vonnegut, and Morrison)

## **ENGL 351 Modern and Contemporary American Poetry**

Studies the life of poetry in recent American culture, from the early twentieth century through today. The course attempts to answer the question, “Why does poetry matter?” The emphasis is on close reading along with an exploration of diverse methods of literary criticism, such as historical and biographical. Poets are looked at in context (e.g. the celebrity of Frost and Hughes; the notoriety of Ginsberg; posthumous responses to Plath), and poetic form will be considered as well, from iambic pentameter to spoken word and Slam. Prerequisite: ENGL 121.

## **ENGL 361 Language: Structure and Usage**

Studies the theoretical views and methodological tools for an accurate understanding of language, its structure, and usage. Emphasis is on the English language, covering topics such as language acquisition and development, the history of the English language, grammar, dialects, sentence analysis and levels of usage. Prerequisite: ENGL 121.

## **ENGL 385 Topics in Literature**

Provides for study of significant writers, genres, and themes. Possible subjects include Chaucer, Poe, gender and film, postmodernism, as well as other topics devised by faculty or requested by students. May be repeated with topic change. Prerequisite: ENGL 121.

## **ENGL 386 Topics in Film and Literature**

Explores specific topics in film and literature. Students will view selected films, read selected texts, and apply theoretical approaches, close reading, and film analysis techniques. Topics may include cinematic adaptations of authors (e.g., Shakespeare, Dickens, Austen), genres (e.g., anime, comedy, sci-fi), or themes (e.g., gender in film and literature, dystopias in film and literature, sports in film and literature). May be repeated with topic change. Prerequisite: ENGL 121.

## **ENGL 387 Topics in Literature and Gender**

Gives students the opportunity to explore literary texts through the lens of gender. Students learn principles of gender theory and analysis, and how to use these principles to understand and interpret texts. Topics may include LGBT literature, women’s

literature, the literature of masculinity, marriage in the 19th-century novel, sexuality in science fiction, or others according to instructor interest and research area. May be repeated with topic change. Prerequisite: ENGL 121.

## **ENGL 390 Advanced Creative Writing**

Provides students with practice in a variety of forms, increasing in complexity. Individual style and voice in students' work as well as in contemporary authors are explored. Prerequisite: ENGL 306 or permission of instructor.

## **ENGL 394 Classical Mythology**

Emphasizes Greek and Roman mythology and its influence on English and American writers. Various examples of Greek and Roman literature are read in translation. Prerequisite: ENGL 121.

## **ENGL 398 Internship in English**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship. Prerequisite: Permission of instructor.

## **ENGL 399 Continuing Internship in English**

Designed to offer students supervised English-related work experience. The aim is to allow students to use and develop knowledge of the English language in professional contexts involving editing and publication. The course number sequence allows for internships covering up to two semesters, consecutive or non-consecutive. Up to six hours may count toward the English major or minor. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship. Prerequisite: Permission of instructor.

## **ENGL 495 Seminar**

Is the capstone course for English majors; students share in intensive study of a major literary work and write a paper of suitable length, applying the theoretical principles of literary criticism to that work. Discussions focus on analyzing literature, critical reading, and research methods. Students are expected to make a brief oral presentation at the end of the semester, summarizing their work. Offered each semester on a subject selected by the instructor. Prerequisite or co-requisite: ENGL 320; senior status or permission of department chair.

## **EVSC 121 Environmental Issues**

Involves presentation and discussion of selected topics of importance in environmental science. This course permits students to explore this broad field through general readings and discussion.

## **EVSC 221 Environmental Science Research**

Is an investigation of a research question in the field of environmental science through laboratory and/or library research as supervised by a faculty member. Four to five hours of work per week during the semester is equivalent to 1 credit hour. May be repeated for credit. Graded S/U. Prerequisite: Declared environmental science major.

## **EVSC 421 Topics in Environmental Science**

Is a seminar course which explores in detail, through reading and discussion recently published reports and topics in the field. Environmental science majors must take the course for at least one credit. May be taken for additional credit. Prerequisite: Environmental science major core completed or consent of major advisor.

## **EVSC 422 Advanced Internship in Environmental Science**

Requires the successful completion of a minimum of 160 hours during either a semester or a summer as an intern in an environmentally-related situation. Prerequisite: Junior standing, prior approval of internship.

## **EVSC 428 Environmental Science Senior Research**

Involves laboratory, field and/or library research on a topic related to environmental science. The project will be selected in consultation with a faculty member and will involve a literature search and experimental work. Prerequisite: Environmental science major with senior standing.

## **FREN 111 Beginning French I**

Introduces students to the culture and language of the French-speaking world. Students develop an ability to communicate in real-life situations by acquiring reading, writing, listening, and speaking skills. This course is intended for students with no prior knowledge of French, or those who have had two years or less of high school French.

## **FREN 112 Intermediate French II**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from France. Prerequisite: FREN 211.

## **FREN 112 Beginning French II**

Builds on the skills acquired in FREN 111. Students continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the French-speaking world. Students meet once a week with a language assistant from France. Prerequisite: FREN 111 or 2-3 years of high school French.

## **FREN 123 Masterpieces of Francophone Literature in English Translation**

Is taught entirely in English. The course introduces basic literary concepts and explores themes and movements of French literature from the seventeenth to the twentieth centuries. Prerequisite: ENGL 121.

## **FREN 211 Intermediate French I**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education,

economics, and politics. Students meet once a week with a language assistant from France. Prerequisite: FREN 112 or its equivalent.

## **FREN 212 Intermediate French II**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the French-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary French-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from French. Prerequisite: FREN 211 or its equivalent.

## **FREN 240 Business French**

Introduces basic concepts of business communication in the French-speaking world. Topics include finance, economics, marketing, and intercultural awareness. Prerequisite: FREN 212, its equivalent, or permission of instructor.

## **FREN 251 French Table**

Offers the opportunity to practice conversational French in an informal setting. Activities are designed to encourage students to express themselves creatively in French. The course may be taken up to three times for credit, but applied to the major only twice. Prerequisite: FREN 111 or its equivalent.

## **FREN 291 Advanced French Table**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level. Maximum number of French Table classes (251, 291, or a combination) that may be taken for credit: three. Maximum number of French Table classes that can be applied to the 33 hours required for the major: two (can consist of two 251s; two 291s, or one of each). Prerequisite: FREN 212, its equivalent, or permission of instructor.

## **FREN 301 Advanced French: Conversation and Pronunciation**

Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities. Prerequisite: FREN 212 or its equivalent.

## **FREN 302 Advanced French: Grammar and Composition**

A writing course that focuses on writing for a number of purposes, including essays, correspondence, narratives, and literary analysis. An overview of French grammar is included. The course may be taken twice for credit. Prerequisite: FREN 212 or its equivalent.

## **FREN 303 Survey of French Literature**

Introduces major literary movements, principal writers, and outstanding works of French literature in their historical contexts beginning with the sixteenth century. Prerequisite: FREN 302 or permission of instructor.

## **FREN 304 Survey of French and Francophone Literatures**

Surveys contemporary French-language literatures and their cultural contexts in French-speaking Africa, North America, and the Caribbean as well as in France. Prerequisite: FREN 302 or permission of instructor.

## **FREN 310 Study Abroad Seminar**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

## **FREN 325 Topics in French Civilization**

Explores aspects of French civilization and culture, including history, religion, the arts, politics, and gender. The course may be repeated for credit as the subject matter changes. Prerequisite: FREN 212, its equivalent, or permission of instructor.

## **FREN 350 Survey of French Cinema in English**

Provides an overview of French and Francophone cinemas starting with the origins of cinematic art. The course examines landmark film classics as well as a selection of contemporary French-language films. The basic vocabulary and concepts of cinematography are taught in order to give students tools for an in-depth analysis of the films. Prerequisite: ENGL 121.

## **FREN 360 Topics in French Language and Culture**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the French-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis. The course may be repeated for credit as subject matter changes. Prerequisite: Sophomore standing and permission of instructor.

## **FREN 431 French Culture Seminar**

Provides the advanced student the opportunity for in-depth study of an aspect of French or Francophone culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the French major. Prerequisite: Two French courses numbered above 302, at least one of which is taught in French, or permission of instructor.

## **GEOG 111 World Regional Geography**

Introduces the eight major cultural regions of the earth. The course emphasizes the human adaptation patterns to variations in physical characteristics of the earth's environments. Special attention is given to human activities such as agriculture, population dynamics, resource development, economic systems, and religious expression.

## **GEOG 120 Physical Geography**

An introduction to the earth's major natural environmental systems, their spatial distribution and interrelationships, including weather and climate, vegetation and ecosystems, soils, landforms, and earth-surface processes.

## **GEOG 220 Earth's Climate System**

Designed to provide a broad introduction to climatology, the study of the average state of weather on planet Earth. Planetary energy budgets, regional climates, climate change, and past and future climates are emphasized.



# **GEOG 310 Introduction to Geographic Information Systems**

Focuses on the theory and practical applications of geographic information systems (GIS). Basic concepts along with the following topics – map projections and coordinate systems; vector and raster data; data display; data analysis and modeling – are introduced. 2 hours of lecture and 1 hour of laboratory.

# **GEOG 321 Weather and Climate**

Introduces meteorology and climatology. The course treats the subjects from both descriptive and theoretical points of view.

# **GEOG 331 Regional Geography**

Studies the interrelationships among physical, economic, and cultural phenomena within various regions. A) Anglo-American geography, B) European geography, C) Latin American geography.

# **GEOL 101 Introduction to Geology**

Studies forces, processes, and events which have shaped our physical environment. Laboratory and field trips.

# **GEOL 104 Earth History**

Studies the methods and principles employed in deciphering the geologic history of the earth and the development of life. Emphasis is upon the geological evolution of the North American continent and the main features of the fossil record. Laboratory and field trips. Prerequisite: GEOL 101 or 110.

# **GEOL 105 Geohazards**

An overview of the geological and human factors that contribute to natural disasters, including the role of plate tectonics in driving earthquakes, tsunamis and volcanic activity; the atmospheric and hydrological cycles and their role in weather and climate related disasters; and anthropogenic impact of human civilization on Earth processes and the potential effects on health, safety and property.

# **GEOL 110 Environmental Geology**

Focuses on the interaction between humans and the geologic environment. Geologic phenomena, such as flooding, volcanoes, earthquakes, shoreline erosion, and soil erosion are examined. Environmental problems to be discussed include groundwater pollution, geologic constraints on sewage and solid waste disposal, resource utilization, acid rain, and the greenhouse effect. Students gain a strong understanding of how geology influences many of these environmental problems. Laboratory and field trips.

# **GEOL 200 Oceanography**

A broad study of the marine environment which emphasizes the interrelationships of living and non-living systems. Current concepts of ocean evolution are analyzed with respect to their physical, chemical, and biological importance. Laboratory and field trips.

# **GEOL 220 Landform Evolution**

A comprehensive analysis of geological processes operating at or near the earth's surface. Topics include weathering, soil development, mass wasting and fluvial, glacial, eolian, and coastal erosion and deposition. Geomorphic systems are viewed primarily from a process-response perspective. Laboratory and field trips.

# **GEOL 230 Introduction to Well Logging**

Focuses on understanding the different types of well logs, their purpose, and limitations. Case studies allow students to gain practical experience in well log interpretation and correlation.

# **GEOL 295 Research Experience**

Offers course credit to freshman or sophomore students interested in geology, earth science, and/or geoscience who would like to obtain some research experience.

# **GEOL 301 Mineralogy**

Deals with the physical properties of minerals. The course includes descriptive crystallography, optical mineralogy, and x-ray methods. Laboratory. Prerequisite: Permission of instructor.

## **GEOL 302 Igneous and Metamorphic Petrology**

Studies igneous, sedimentary and metamorphic rocks and their genesis. Laboratory. Prerequisite: GEOL 101 or 110, 301.

## **GEOL 303 Sedimentary Petrology**

A study of the petrology and petrography of sedimentary rocks. Emphasis is upon recognition, classification and interpretation of sediments via field methods and optical petrography. Laboratory and field trips. (2 CEUs)

## **GEOL 311 Paleontology**

Encompasses the taxonomy, morphology and recognition of stratigraphically-significant invertebrate fossils. Biostratigraphy, paleoecology, and the evolutionary history of organisms as viewed from the standpoint of the fossil record are also included. Micropaleontology, vertebrate paleontology, and paleobotany are introduced. Laboratory and field trips. Prerequisite: Permission of instructor.

## **GEOL 313 Structural Geology**

Deals with the mechanical principles of rock deformation and the resulting development of folds, faults, joints, and other tectonic features. The related causes and mechanisms of mountain building are also discussed, along with continental drift, sea floor spreading, and plate tectonics. Laboratory and field trips. Prerequisite: GEOL 101 or 110, 104.

## **GEOL 322 Sedimentology and Stratigraphy**

Studies the principles that govern the distribution and variability of sediments and sedimentary rocks. Emphasis is upon interpretation of source, mode of transport, and environment of deposition of sedimentary sequences by analysis of vertical and lateral variations in texture, composition, sedimentary structures, and geometry of sedimentary rock bodies. Laboratory and field trips. Prerequisite: GEOL 101 or 110, 104.

## **GEOL 350 Petroleum Geology**

Focuses on the specific aspects of petroleum geology, such as petroleum migration, seismic exploration and production geology, that are not covered in more general geology courses

## **GEOL 395 Topics in Geology**

Provides the opportunity to pursue advanced studies in subjects not offered as formal courses. The department offers such studies in the areas of geomorphology, geochemistry, and other topics.

## **GEOL 410 Subsurface Geology**

Focuses on the major techniques used by exploration and production geologists to determine the nature of stratigraphic and structural variations in the subsurface. This course also incorporates computer techniques including Geographic Information Systems in the study of subsurface geology.

## **GEOL 495 Literature Seminar**

A part of the capstone for the geology major. Students develop arguments, lead discussions, and make oral presentations about current research in the geological sciences.

## **GEOL 496 Senior Research**

A part of the capstone for the geology major. Students complete an intensive study of a selected problem in geology.

## **GERM 111 Beginning German I**

The first of two elementary-level courses intended to help students develop communicative as well as intercultural competence in German. This course is intended for students with no prior knowledge of German, or those who have had two years or less of high school German.

## **GERM 112 Beginning German II**

Builds on the skills acquired in GERM 111. Students will continue to develop an ability to communicate in real-life situations by acquiring additional reading, writing, listening, and speaking skills as well as cultural competency in the Germanic world. Students meet once a week with a language assistant from Germany. Prerequisite: GERM 111 or 2-3 years of high school German.

## **GERM 123 Explorations in German Literature in English Translation**

Taught entirely in English. The course includes a variety of literary genres from a cross-section of Germanic countries. Emphasis is on significant literary works ranging from the earliest to the most modern and their film adaptations. Prerequisite: ENGL 121.

## **GERM 211 Intermediate German I**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany. Prerequisite: GERM 112 or its equivalent.

## **GERM 212 Intermediate German II**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the German-speaking world. Students explore the diversity of practices, products, and perspectives found within contemporary German-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Germany. Prerequisite: GERM 211.

## **GERM 251 German Table**

Offers the opportunity to practice conversational German in an informal setting. Activities are designed to help students use the language creatively. The course may be taken three times for credit but applied to the major or minor only twice. Prerequisite: GERM 111 or its equivalent.

## **GERM 291 Advanced German Table**

A weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level. Maximum number of German Table classes (251, 291, or a combination) that may be taken for credit: three. Maximum number of German Table classes that can be applied to the hours required for the major: two (can consist of two 251s; two 291s, or one of each). Prerequisite: GERM 212, its equivalent, or permission of instructor.

## **GERM 301 Advanced German: Conversation and Pronunciation**

Emphasizes listening and speaking skills. Students improve their comprehension and speech through laboratory exercises, class discussions, and other activities. Prerequisite: GERM 212 or equivalent.

## **GERM 302 Advanced German: Grammar and Composition**

Emphasizes refinement of writing skills and good usage in German. Given different contracts, the course may be taken twice for credit. Prerequisite: GERM 212, its equivalent, or permission of instructor.

## **GERM 303 From the Middle Ages through the 19th Century**

Introduces German history from 750 to 1800. The course provides a cultural, literary, and historical survey from the age of Charlemagne to the Enlightenment. Prerequisite: GERM 212 or permission of instructor.

## **GERM 304 From Expressionism to Post-War Literature**

Examines representative authors of the early 20th century, the literary resistance in the Third Reich, exile literature, and the emergence of a new German literature after 1945. Prerequisite: GERM 302 or permission of instructor.

## **GERM 310 Study Abroad Seminar**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

## **GERM 325 Topics in Germanic Civilization**

Explores aspects of Germanic civilization and culture including history, the arts, architecture, religion, and literature in German speaking countries. The course may be repeated for credit as the subject matter changes. Prerequisite: GERM 212 or permission of instructor.

## **GERM 340 Business German**

Concentrates on the vocabulary of business in German-speaking settings and intercultural awareness between the US and German-speaking countries. The emphasis is on reading, writing, translating, and fundamental oral communication skills in business settings. The course focuses on business topics pertaining to industry, marketing, finance, social welfare, the consumer in general and the environment, in the context of German business culture. Prerequisite: one 300-level German language course or permission of instructor.

## **GERM 350 German Cinema**

Taught entirely in English. The course covers major German film directors treating themes that include the Third Reich, Germany after WWII, and gender roles. May be taken two times with change in topic. Prerequisite: ENGL 121.

## **GERM 360 Topics in German Language and Culture**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the German-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis. The course may be repeated for credit as subject matter changes. Prerequisite: Sophomore standing and permission of instructor.

## **GERM 431 German Culture Seminar**

Provides the advanced student an opportunity to study in depth an aspect of Germanic culture, which may include: literature, art, cinema, business culture, or another approved topic. The course serves as a capstone for the German major. Prerequisite: Two German courses numbered above 302, at least one of which is taught in German, or permission of instructor.

## **HLTH 200 Nutrition and Physical Fitness**

Provides both classroom and practical experience in the investigation of personal fitness and nutritional habits. Both exercise prescriptions and wise food choices are combined to promote a strong understanding of these issues as they relate to optimal healthful living and positive wellness.

## **HLTH 345 Personal Health**

Studies the health problems and concerns of young adults in America today. Topics of study include stress management, emotional health, chemical dependency, sexual responsibility, physical fitness, heart disease, cancer, and communicable diseases. The primary focus is on prevention, with students being encouraged to make lifestyle choices conducive to lifelong wellness.

## **HLTH 365 School and Community Health**

Studies health problems affecting entire communities and school settings, with particular focus on environmental issues, communicable disease control, and the risks of community living. The course shows how community and school action can work together to solve health problems. Special emphasis is placed on the role of public health agencies in health promotion and disease prevention.

## **HLTH 380 Health Issues and Programs**

Provides both on- and off-campus experiences in the area of health promotion. Practical experience in a health agency in a variety of health settings is provided. In addition, solutions to real and current health issues are investigated.

## **HLTH 400 Health Curriculum, Methods, and Materials**

Investigates the planning, organization, and use of instructional resources in the delivery of health education content and teaching strategies. Special emphasis is placed upon various types of curricular approaches that allow for teaching behaviors



found to be conducive to learner achievement in health education. Required field hours: 20.

## **HLSC 101 Introduction to Health Sciences**

Designed to orient students to various fields of study in the Health Sciences. The course explores health, fitness, exercise, and management professions. Emphasis is on wellness, acute care, long term care, public health and personal fitness.

## **HLSC 110 Medical Terminology I**

Provides a basic overview of the medical language and terminology used by health care professionals. Basic word roots, prefixes and suffixes, terms denoting human body orientation, and terms related to specific organ systems, are examined.

## **HLSC 111 Medical Terminology II**

Builds on the prefixes, suffixes, and word roots mastered in Medical Terminology I by exposing students to additional medical vocabulary, including signs, symptoms and diseases, medical procedures, and pharmacology related to the various organ systems. Students are also exposed to common abbreviations used in medical records. Prerequisite: HLSC 110.

## **HLSC 131 Human Structure and Function**

Focuses on the levels of body organization, body support and movement, structural physiology and disease. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the structure and function of the various body systems, including nervous, endocrine, musculoskeletal, cardiovascular and integumentary. Disease etiology, prevention practices as they affect the human body, and practices and behaviors that promote, as well as compromise, health and safety are also examined.

## **HLSC 151 Global Health**

Provides an overview of major issues in global health, including equity, social justice, concern for the poor and the marginalized, and the importance of value for money from investments in health. Students gain a better understanding of the progress made in addressing global health problems, as well as remaining challenges and what must be done to address them.

## **HLSC 231 Nutrition Across the Lifespan**

Presents the chemistry, digestion, absorption and metabolism of nutrients. Nutritional needs of the individual throughout the lifespan are examined. Application of nutritional needs to healthy individuals and those who have common, chronic diseases are presented.

## **HLSC 301 The American Health Care System**

Explores the major themes and issues of health care in the U.S. including health care policy, finance, risk management and quality improvement, government regulations, and the insurance industry.

## **HLSC 304 Statistics for the Health Sciences**

Provides the foundations of statistics with special application for students in the health sciences. Topics include both descriptive and inferential statistics, probability theory and research design. Emphasis is placed on understanding how statistics are used by health practitioners and interpreting the results.

## **HLSC 305 Health Informatics (MAP)**

Explores the use of information technology in health care practice, education, administration, and research. Topics addressed include how and why information systems are developed and used, the identification and utilization of informatics approaches and tools, as well as how data is acquired, processed, generated, and disseminated.

## **HLSC 307 Health Communication and Promotion**

Provides a basic overview of the role communication plays in shaping health promotion and disease prevention messages to individuals, groups and the general public. The role of mass media in health communication and promotion is explored. Goals and strategies of health promotion are reviewed along with evaluation activities. Students are expected to identify a specific population and develop a health promotion project for that group.

## **HLSC 312 Social Gerontology**

Provides an overview of the processes of aging. Emphasis is placed on “typical” aspects of aging from three perspectives: the aging individual, the social context of aging, and societal responses to an aging population.

## **HLSC 315 Public Health and Epidemiology**

Provides an overview of the basic principles of public health and their application to the development of activities that benefit the health status of populations. Concepts of epidemiology, biostatistics, and health care planning, policy development and assessment are also examined.

## **HLSC 322 Health Policy**

Provides a comprehensive review of the health policymaking process and current debates. An historical perspective of health policy is reviewed. Students are introduced to the process of health policy development and implementation and have the opportunity to analyze a current policy and its effects on a health care organization or special interest group in their local community.

## **HLSC 326 Health Care Finance**

Provides a general overview of how the health care finance system works in the United States. Essential components of healthcare finance are explored. Students have an opportunity to analyze financial data, systems and processes and to identify performance improvement opportunities for enhancing revenue growth and expense reduction.

## **HLSC 330 The Human Body: Structure and Function (MAP)**

Focuses on body organization, support and movement, and structural physiology. Topics include the chemical and cellular basis of human life, the integration of body functions and homeostasis, and the structure and function of the various body systems including nervous, endocrine, musculoskeletal, cardiovascular and integumentary.

## **HLSC 331 Nutrition and Health**

Provides a basic overview of the role nutrition and diet play in health. Fundamental aspects of nutrients and digestive processes are examined. Nutrition and its implications for disease are also addressed.

## **HLSC 332 Sport Nutrition and Supplementation**

Explores the science behind performance enhancement through better nutrition and dietary supplementation. New discoveries in the nutraceutical benefits of foods, vitamins, and minerals are highlighted. Prerequisite: HLTH 200.

## **HLSC 333 Motor Learning and Performance**

Introduces students to a wide range of practical issues in the performance and learning of motor skills. Emphasis is placed upon a variety of exercises and activities that allow for the application of concepts and principles in real world situations. Prerequisite: HLSC 101.

## **HLSC 335 Advanced Exercise Physiology**

Examines the acute physiological adjustments to exercise and the chronic physiological adaptations to exercise training. The role of the major physiological systems of the body in maintaining homeostasis during exercise will be studied along with the adaptations that occur in these systems following exercise training. Practical applications of this knowledge will be explored with regards to the role of exercise in maintaining and improving health, physical fitness and athletic performance. Prerequisite: HLSC 131, BIOL 112, or BIOL 121.

## **HLSC 336 Principles of Strength and Conditioning**

Prepares future professionals in various fitness fields to apply scientifically sound principles to strength and conditioning programs. The course focuses on strength, speed, cardiovascular, and flexibility training through the use of concepts learned in physiology, anatomy, kinesiology, and psychology. Appropriate exercise program design, safe exercise technique, and the ways to assess physical improvement are stressed. Upon successful completion of the course, students should be prepared to sit for a national credentialing examination.

## **HLSC 337 Exercise Testing and Prescription**

Familiarizes students with the hands-on training and theoretical background needed to competently assess levels of wellness/fitness within low risk adult populations. The topics and skills addressed include health screening protocols and measurement protocols for the health-related components of fitness (i.e., cardiorespiratory fitness, muscular fitness, flexibility, body composition).

## **HLSC 340 Instrumental Clinical Chemistry (MAP)**

Focuses on the chemical theories and principles of instrumental analysis as they apply to clinical chemistry and the work of the clinical laboratorian. The topics covered will provide an understanding of the selection procedure, quality control, and quality improvement of analytical methods of analysis. The theoretical operation and applications of these analysis methods will be considered.

## **HLSC 341 Applied Clinical Biochemistry I (MAP)**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on carbohydrate metabolism, protein function, endocrinology, and tumor markers.

## **HLSC 342 Applied Clinical Biochemistry II (MAP)**

Focuses on the theory and principles of clinical chemistry, and associated application and instrumentation especially as it pertains to disease states. Focus is on acid base, electrolytes, home derivatives, lipids, therapeutic drug monitoring, drugs of abuse and toxicology.

## **HLSC 351 Occupational Science (MAP)**

Explores the tenets, vocabulary, and research within the field of occupational science. It is designed to prepare the student to utilize occupation-based assessment tools; and to use occupational science research to enhance clinical reasoning and develop basic occupational therapy programming.

## **HLSC 406 Legal Issues in Healthcare (MAP)**

Provides a basic understanding of healthcare law. Essential components of healthcare law will be addressed in accordance with how the law impacts the health system from a strategic and operational perspective. Students will have the opportunity to analyze and discuss specific cases that pertain to the topics covered. Best practice strategies for the prevention and management of legal claims will be provided.

## **HLSC 408 Topics in Health Sciences**

Selected courses which are not offered as part of the existing Health Science Department curriculum. Prerequisite: Permission of the instructor.

## **HLSC 409 Readings in Health Science**

Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as a part of the existing health science department curriculum. Prerequisite: Permission of the instructor.

## **HLSC 415 Advanced Epidemiology**

Provides an in-depth investigation into epidemiologic methods, building upon the foundations explored in HLSC 315. Both descriptive and analytical epidemiology are covered, including measures, study design, and data interpretation. The impact of ethical principles and public policy on the practice of epidemiology is also considered. Prerequisites: PSYC 232 or HLSC 304; HLSC 315.

## **HLSC 417 Long-Term Care in an Aging Society**

Examines long-term service delivery programs designed to meet the special needs of seniors. It also includes an historical, philosophical and managerial overview of seniors housing and care, from congregate living to skilled nursing. Current issues in long-term care will be discussed as well.

## **HLSC 453 Elder Cognitive Health & Wellness (MAP)**

Explores the tenets, vocabulary, and research within the field of occupational science. It is designed to prepare the student to utilize occupation-based assessment tools; and to use occupational science research to enhance clinical reasoning and develop basic occupational therapy programming.

## **HLSC 455 Sensory Function Across the Lifespan (MAP)**

Focuses on sensory systems, sensory processing, and the sensory basis of occupational engagement from birth through elder years. Students will review basic understanding and assessment of sensory processing, and learn methods for optimizing occupational engagement using sensory integrative and occupational adaptation approaches. Prerequisite: HLSC-351.

## **HLSC 495 Seminar in Health Science (MAP)**

A capstone course for students completing any of the Health Science majors. Students will engage in an in-depth research study or practicum that links together their general course work, their specialized training and their clinical experience. The topic will be selected in consultation with the supervising faculty member. Prerequisite: permission of department chair.

## **HLSC 496 Seminar in Public Health Studies**

A capstone for Public Health Studies majors. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member. Prerequisite: Permission of Department Chair.

## **HLSC 497 Seminar in Health Administration**

A capstone course for Health Administration majors. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member. Prerequisite: Permission of Department Chair.

## **HLSC 498 Seminar in Health and Fitness**

A capstone course for students completing the Health and Fitness major. The student will engage in the development of a research proposal or public health practicum to provide a practical application of their general coursework. The research topic/practicum placement will be selected in consultation with the supervising faculty member. Prerequisite: Permission of Department Chair.

## **HIST 105 United States History to 1877**

Covers the period from the first Native American settlements to 1877, emphasizing the origin of the United States and the rise of democratic ideas and institutions.

## **HIST 106 United States History since 1877**

Deals with the period 1877 to the present, emphasizing the development of the United States as an industrial and a world power.

## **HIST 110 Pre-Modern World History**

Surveys selected aspects of World History from the beginning of civilization to the fourteenth century CE. Traces the political, economic, intellectual and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe and Western Hemisphere

## **HIST 111 The Emergence of the Modern World I**

Surveys selected aspects of World History from the fourteenth to the eighteenth century. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

## **HIST 112 The Emergence of the Modern World II**

Surveys selected aspects of World History from the eighteenth century to the present. Traces the political, economic, intellectual, and cultural institutions and trends of various world societies of Asia, Africa, the Middle East, Europe, and the Western Hemisphere.

## **HIST 220 US Women's History**

Explores the history of American women from the colonial period to the present. Course topics address the changing political, social, and economic views of women's roles and responsibilities over time; the challenges and discrimination women faced (and continue to face) in the struggle to attain equal rights; and the diversity of women's experiences across race, ethnicity, class, and religion. Three of the most important questions that inform the course are: 1.) How did the "ideal" vision of womanhood mask the diversity of women's lives? 2.) Did all women share the same goals when it came to their position in American life? 3.) Did the passage of time always signal progress? Students use a survey text of American women's history and a host of primary source documents from the time periods under study as they read, write about, and discuss the topic over the course of the semester.

## **HIST 230 The American Civil War**



Employs a wide variety of secondary and primary sources to examine the causes, development and consequences of the American Civil War.

## **HIST 240 The Holocaust**

Provides an overview of the state-sponsored murder of millions of Jews and non-Jews by the Nazis and their collaborators during World War II. It examines important historical factors that occurred before the Third Reich's rise to power, the development of policies aimed at Jews and other "undesirable" elements of the population and how those persecuted responded to them, the path of the Final Solution, and the aftermath and legacy of the Holocaust.

## **HIST 245 The First World War**

Provides an overview of the conflict, beginning with the war's origins and includes its global reach, particularly through the colonial empires of the European powers. It traces the path of the conflict from 1914-1918, focusing on major battles on land and at sea, and discusses the major military innovations of this era. It examines changes on the home front as well as how the home front had an impact on the war front and vice versa. It analyses the war's political, demographic, and cultural impact, including its representations in literature, poetry, and film.

## **HIST 250 Study Abroad Seminar**

Offers the opportunity to travel outside the United States, which enhances a student's knowledge and understanding of history and world cultures. In conjunction with an approved study abroad trip, students attend pre-trip informational and organizational meetings. While traveling they will complete readings and/or written work and participate in group discussions. Upon return, students submit a reflection paper that describes their activities, discusses their experiences and considers what was learned (both during organized excursions and more informal activities).

## **HIST 260 The Cold War in the Americas**

Examines the influence of the Cold War on Latin America and the United States, seeking to understand the complex and often fraught relationship between Washington and the nations of Latin America. After tracing the evolution of hemispheric relationships from independence to the mid twentieth century, the class explores how the ideological battle between communist and anti-communist forces shaped the development of regional relationships in the Americas. Revolution, guerilla warfare, counter-insurgency, as well as everyday struggles over press freedom and foreign investment, shaped the lives of Americans north and south of the equator. Students will encounter the changing historiography of US-Latin American

relations, learning not only about policy choices and responses at the government level, but also how the Cold War shaped the way that the peoples of Latin American and the United States viewed one another, and how culture was shaped by these interpretations.

## **HIST 300 Historical Research Methods**

Introduces students to the basic skills of historical research and writing. The skills include using databases, locating and evaluating primary and secondary sources, developing a thesis, employing evidence, and proper citation. Prerequisite: Completion of two of the following courses: HIST 105, 106, 111, 112.

## **HIST 310 Ancient History**

Provides an overview of the history of western civilization between c. 4000 BCE and 500 CE. Topics include political institutions, belief/religion, intellectual culture, interactions between societies, and daily life in Mesopotamia, Egypt, Greece, and Rome. It also traces the transformation from Antiquity to the Middle Ages and the role of the so-called barbarians in this transition.

## **HIST 318 Nineteenth Century Europe**

This course covers the long nineteenth century (1789-1914), beginning with the French Revolution and its short and long-term political, social, economic, and cultural implications, including Napoleon. Course materials focus on examining the key building blocks of the First and Second Industrial Revolutions and explaining their political, social, economic, and cultural impact; the emerging ideologies of the nineteenth century (conservatism, liberalism, socialism, and Marxism) and how these interacted through the Revolutions of the 1820s, 1830, and 1848; the development of modern nationalism and its implications for power shifts and state building within Europe; the goal's, methods, and justifications for European imperialism and its impact both on mother countries and colonies; and the shifts in gender roles, societal organization, and government control of their implications.

## **HIST 320 Twentieth Century Europe**

This course covers European History from 1914 through the end of the twentieth century. Course materials focus on the causes, path, and results of the First World War and its longterm legacy for Europe; the development of totalitarian states across Europe in the interwar period, including both fascist and communist regimes; the causes, path, and results of the Second World War; the development, expansion, and demise of the Cold War from political, economic, cultural, and social perspectives; the

processes of

European mother countries attempting to hold on to and/or divest themselves of their colonial empires and the long-term implications thereof; the pivotal role of the 1960s as a decade of protest and resistance against systems of authority across Europe and its long-term consequences; and the path and results of European integration and the revolutions of 1989.

## **HIST 322 Gender and History**

Introduces students to the use of gender as a historical category of analysis. It encourages students to integrate theory and practice to explore both historical sources (primary and secondary) and historical explanations more deeply through the lens of gender. It explores

the social constructions of categories such as feminine and masculine and examines how these binary divisions have had an impact on people, policies, and institutions. It probes the relationship between these categories of analysis and constructions of power and examines how gender has influenced societal constructions of hierarchy, asymmetry, and difference. Topics will include witch trials, industrialization and its impact on work, dueling, reproductive rights and control, betrothal and marriage rituals, civil rights and civil liberties, imperialism, genocide, consumer culture, and wartime experiences. While the focus of this course is on gender, it also includes the diversities of ethnicity, age, and sexual orientation

## **HIST 344 East Asian History to 1800**

Examines the origins and development of traditional civilizations of China and Japan to the 19th century. This course emphasizes the development of the Confucian state and society, the rise of Imperial China, the emergence of aristocratic culture in Japan, the transition to Samurai rule, and early contact with the West.

## **HIST 345 The Second World War**

Examines the origins, course, and impact of the Second World War. Beginning with an investigation of the causes leading up to the war, it traces the conflict through the major military campaigns, giving attention to operations in Europe, North Africa and the Pacific. The course examines strategic, doctrinal, and technological developments as well as the war's impact on civilian populations and the manner in which the conflict transformed selected economic, social, cultural and political realities of domestic life for the major combatants.

## **HIST 346 Southeast Asian History**

Covers the development of Southeast Asia (Indonesia, Malaysia, Singapore, Thailand, Vietnam, Cambodia, Laos, Burma, the Philippines, and East Timor) in the historical context of conflict between the indigenous societies and the global community of the colonial powers. The course contextualizes and examines the pre-colonial order, the colonial powers in SEA, World War II, and post-war independence movements. Political, social, and intellectual trends with an emphasis on the diversity of experiences are highlighted, but the course is intended as an introduction to a broad and diverse region of the world.

## **HIST 347 Modern China**

Examines China's evolution from an imperial state to a revolutionary society dominated by the Chinese Communist Party. Attention is paid to political attitudes and elements of society and culture in contemporary China that reflect links to a past that remained influential both as an inspiration and a stumbling block as China remade itself in the twentieth century. In addition, the course explores discontinuities in modern Chinese history brought about by wars, imperialism, revolution, industrialization, and the other forces that decisively altered the underpinnings of Chinese society. This course's reading and lectures are built upon five major themes: foundation and success of early Qing dynasty, peasant rebellion and Western imperialism, reform and revolution in the twentieth century, Republican China and its challenges, and the birth and development of the PRC.

## **HIST 348 The Western Impact of Modern Japan**

Explores the three ways Japan has become an empire during the past two centuries: through the restoration of imperial rule in the nineteenth century, through its imperialist expansion in Asia during the early twentieth century, and through its emergence as a global economic power in the post-War order. To understand these developments, one must examine the interplay between the internal dynamics of change in Japanese society, culture, and politics, on the one hand, and the impact of the West on Japan during these formative events. This course addresses how indigenous changes in Tokugawa, Japan, interacted with pressure from Western Imperialism to cause the imperial restoration and reforms as well as addressing the relationship between Japan's imperial expansion and rule at home.

## **HIST 350 Colonial Latin America**

Examines the process of encounter between the Old and New Worlds. It focuses initially on Pre-Columbian and Iberian societies prior to 1492, and it examines the social, political, cultural, and economic impact of Spanish and Portuguese colonizations in South America. It devotes particular emphasis to countries such as Mexico, Peru, and Argentina from the colonial to the national periods.

## **HIST 351 Modern Latin America**

Emphasizes the historical developments which followed political independence in 1810. It centers around the impact of Iberian colonization on contemporary forms of political, social, and economic organization in both Meso- and South America. Themes such as development, social inequality, racial identities, imperialism, and authoritarianism surface frequently as the course moves into the contemporary period.

## **HIST 352 Latin America Film and History**

Studies film as a means to understanding the history of the region. Using film critique and analysis, as well as primary documents and secondary sources, students examine the ways in which films illuminate important themes in Latin American history. Topics include indigenous societies, the European conquest, African slavery, immigration, the relationship between Latin American nations and the international community, and the role of race, gender, and ethnicity in the creation of national identity.

## **HIST 353 History of Mexico, Pre-Columbian to Present**

Traces the history of this important Latin American country from the Pre-Columbian era to the present. It focuses on the merging of native groups, such as the Aztecs and the Mayans, with the Spanish colonizers, forming a unique society in the New World. Mexico's distinctive historical phases, from colonization to independence, are also closely examined to deepen the understanding of the 1910 Revolution and its course throughout the twentieth century.

## **HIST 356 History of Modern Africa**

Surveys the history of Africa with emphasis on sub-Saharan Africa in the period after 1800. Topics include state formation, African systems of belief, colonialism and its legacy, labor, migration, and the struggle against Apartheid in South Africa.

## **HIST 360 Historical Research**

Provides advanced undergraduates with the opportunity to conduct independent research. This research can include deep reading and writing on a specific historical topic or theme that is not offered within the regular curriculum, working with a faculty member on a collaborative research project, and/or conducting research either on campus or off-site for a specific project. Prerequisite: HIST 300.

## **HIST 372 Empires of North America**

Examines the colonization and conquest of North America from the sixteenth through the nineteenth centuries. The course employs a comparative approach to the study of North American empires in this era, examining their internal governance and interactions with their neighbors. The course examines both empires constructed by indigenous peoples, such as the Comanche and Iroquois empires, as well as those constructed by European nations, such as the British, French, Spanish and Dutch empires in North America.

## **HIST 374 Ohio History**

A survey of the economic, cultural, political, and social history of Ohio, from prehistoric time to the present.

## **HIST 375 Nearby History**

Provides students with the opportunity to produce histories of local subjects while employing a range of sources. These will include conventional text, image and data-based sources, but the course will require the student to read the built and natural landscapes around them as texts. The course will take place in the classroom but also includes three full Saturday sessions in the field at different locations around the region and state.

## **HIST 376 The American Revolution**

Examines the American Revolution broadly, from 1763-1815. It examines the sources of conflict in Britain's North American empire, the decision of thirteen British colonies to seek independence, and the gradual emergence of a distinct American national identity. It also explores the progress of the war on the military front and the efforts to secure and stabilize the Revolution by political means in the years after independence was achieved. The course ends with a discussion of the War of 1812 as an epilogue to the American Revolution.

## **HIST 378 Gender and Sexuality in American History**

Evaluates the changing interpretations of gender and expressions of sexuality in American history from the time of first contact between Europeans and Native Americans. Introducing students to the idea that gender is not a fixed category but rather a concept shaped by culture, the course examines a variety of populations and time periods in US history to highlight the changing understandings of masculinity, femininity, gender identity, and sexual behavior

## **HIST 379 Youth in Modern America**

Investigates US history through the lens of youth experiences. This course examines media, education, and the marketplace to illuminate the changing understandings and expectations of the youth population. The shared – and sometimes conflicting – messages of these influences reveal goals, tensions, and contradictions of broader American culture and society.

## **HIST 380 The History of the American Dream**

Traces the evolution of the concept of the American Dream from the time of the nation's founding to the present day. Examining elite culture and political views as well as individual perspectives, the course investigates populations who enjoyed easy access to benefits of the Dream as well as those who found the Dream elusive or unfulfilling. Establishing the Dream as a flexible ideal, interpreted and reinterpreted across generations, this course allows students to develop an argument about the Dream's core components through the exploration of primary source evidence.

## **HIST 381 1950s America**

Analyzes the history of the 1950s through the lenses of an idealized American Way of Life, alternatives to that ideal, and as a product of historical memory. Topics include suburbanization; the nuclear family and domestic life; expectations of sex and gender; the influence of popular and material culture; generational tensions; the Cold War; and Civil Rights and other rights-based movements. Through examination of historians' evaluations and primary source evidence of the time period under study, this course allows students to identify how historical narrative and popular views of the past are constructed – both by those living during the time and those who look back on the era.

## **HIST 382 1960s and American Film**

Evaluates the history of 1960s America with primary focus on social and cultural reflections of contemporary issues via major motion pictures of the time. Analysis and review of the films are informed by historical investigation of the 1960s as a whole. The course is intended both to complicate and complement popular views of the decade as students consider major themes that shaped American film: racial conflict and Civil Rights; the Cold War; and challenges to conventional ideas and established authority. Students think critically about assigned films and evaluate them – via both written work and class discussion – as primary source evidence of 1960s America.

## **HIST 385 American Environmental History**

Studies human societies and their relationship to their environment over time. The focus is on the environmental history of North America from pre-Columbian times to the present. Topics explored include the Columbian exchange, evolving concepts of man's relationship to nature, the government's role in conservation and preservation, and the emergence of an environmental movement in recent decades.

## **HIST 390 Topics in History**

Deals with selected topical courses such as early warfare, baseball, gender and history, public history.

## **HIST 395 Public History and Memory**

Allows students to critically examine the past as it is presented in sites of public commemoration. These may include national historic parks, battlefields, museums, living history sites and public monuments. The course is offered only as a part of University approved domestic and foreign study trips.

## **HIST 398 Internship in History**

Designed to offer students supervised history-related work experience. Prerequisite: Prior permission of the instructor.

## **HIST 420 Readings in History**

Permits students to explore historical topics in depth under the direction of a faculty member. Prerequisite: Junior or senior history majors or permission of the instructor.

## **HIST 460 History Research Seminar**

Emphasizes methodological and bibliographical research techniques in the discipline of history. Students research and write on specific topics to meet acceptable standards of historical analysis and style. Prerequisite: Junior or senior history majors or permission of instructor.

## **IDIS 100 First Year Seminar**



Provides students with a common academic experience during their first semester. The course offers an extended orientation to the academic environment within a context of common readings, assignments, and activities. The course also introduces students to academic resources on campus.

## **IDIS 160 Introduction to Film Studies**

Guides students through the basics of film studies. Course instruction includes such topics as cinema history, filmmaking techniques, and film criticism.

## **IDIS 230 Emerging Leaders**

Is an introductory leadership experience that helps students build and practice skills necessary to become effective leaders both while in college and in preparation for roles and responsibilities in future careers. This experience is led by University staff and/or faculty. Students may earn one credit hour per experience with a maximum of four credit hours applying to graduation. Graded S/U.

## **IDIS 240 Introduction to American Studies**

Offers an interdisciplinary study of the values, beliefs, cultures, and social systems of the United States and its many diverse populations. The course integrates a variety of methods and disciplines to help develop skills in critical analysis, communication, cultural knowledge, and self-reflection that contribute to students' desire to shape the world beyond the university setting. Through examination of popular, artistic, and political culture, market trends, and the public and private experience of Americans, past and present, the course explores the values and beliefs that have shaped the experience of American people across race, class, gender, ethnicity, and region.

## **IDIS 250 Career Field Experience**

Involves an introductory supervised experience in a vocational field. The experience is closely supervised by a faculty member and an on-site supervisor. This initial experience provides a gateway to a vocational and/or academic field and may serve as a preparation for future internships. Students may earn 1-2 credit hours per experience, with a maximum of 4 credit hours applying to graduation requirements. Students receive one credit hour for 40 hours of work. Graded S/U. Prerequisites: 28 earned credit hours and at least a 2.0 cumulative GPA.

## **IDIS 260 Topics in Film Studies**

Explores in detail a specific topic, genre, or area of film studies. This seminar-style course combines required readings with viewings of selected films. Film studies minors are required to take this course twice.

## **IDIS 275 Arts and Humanities in Western Culture**

Fosters an appreciation of the landmarks of the Western cultural heritage in religion, philosophy, language and literature, the visual arts and architecture, music, and theatre.

## **IDIS 291 Introduction to Gender Studies**

Introduces selected topics in gender studies. Inclusive of all disciplines and team-taught by gender studies faculty, the course gives an orientation into the field through reading, writing, and discussion.

## **IDIS 300 Internship**

Involves a supervised experience in a vocational field related to a program of study. The program is closely supervised by faculty members and by an on-site director. Students may earn 1-6 credit hours for each distinct internship, with a maximum of 16 hours including, student teaching, applying to graduation requirements. Graded S/U. Prerequisite: Junior standing, 2.5 GPA. The junior standing prerequisite is waived for students participating in Disney internships.

## **IDIS 360 Pre-Law**

Is an analysis of the Law School Admission Test, the Law School Data Assembly Service, and the Law School Candidate Referral Service. Students take a sample examination under conditions approximating those of the LSAT. Graded S/U. Prerequisite: Junior standing.

## **IDIS 491 Seminar in International Business**

Enables the student to pursue an approved research project involving international business practice and theory. Students are strongly encouraged to work with advisors to develop seminar topics/approaches that synthesize language and business skills

and that demonstrate appropriate intercultural competencies. Prerequisite: Completion of the international business major business core.

## **IDIS 492 Humanities Senior Seminar**

Involves work necessary for the completion of the senior seminar, resulting in an extensive written research project in which the student formulates a question to study, proposes a thesis to be argued, and presents support for that thesis in the final paper.

## **JOURN 101 Journalism Practica**

Provide laboratory or workshop experiences in journalism writing and design. Registration is with the journalism coordinator at final registration. Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

## **JOURN 201 Journalism Practica**

Provide laboratory or workshop experiences in journalism writing and design. Registration is with the journalism coordinator at final registration. Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

## **JOURN 207 Print Writing and Reporting**

Provides an introduction to the principles and concepts of writing and reporting for print media and the web. It involves reporting, interviewing, doing background research, writing, and analyzing news stories, and introduces students to journalistic ethics and codes of conduct. Cross listed as ENGL 207. Prerequisite: ENGL 121.

## **JOURN 219 Photojournalism**

Covers the use of digital photography in journalism, with a focus on journalistic storytelling, digital photo editing, and legal and ethical concerns for photojournalists. Prerequisite: MEDIA 150, or permission of instructor.

## **JOURN 301 Journalism Practica**

Provide laboratory or workshop experiences in journalism writing and design. Registration is with the journalism coordinator at final registration. Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

## **JOURN 399 Internship**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U. Prerequisite: Junior standing, 2.5 GPA and instructor permission. Cross listed as DMD 399, MEDIA 399, PBRL 399.

## **JOURN 401 Journalism Practica**

Provide laboratory or workshop experiences in journalism writing and design. Registration is with the journalism coordinator at final registration. Restrictions: maximum of two Journalism practica hours per year; maximum of four Journalism practica hours toward major or minor.

## **JOURN 495 Seminar**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor. Prerequisite: MEDIA 308, 365, 450.

## **LIBR 220 Beyond Google: Research Skills and Resources**

Introduces students to research and information literacy skills, emphasizing the strategies needed for effective research in the digital age. Students learn to communicate the results of their research effectively and ethically.

## **LIBR 301 Archival Research: Special Topics**

Introduces students to the fundamentals of archives and archival research. Students then apply this knowledge as they conduct research within an archive (for example, Muskingum's, John Glenn's at Ohio State, or any number of online archives). Students will be introduced to the background information (historical, social, legal, etc.) necessary to contextualize the archival materials.

## **MATH 100 Transitional Algebra**

Develops algebraic concepts and skills needed to graph and solve linear equations and inequalities. Evaluating algebraic expressions and formulas according to the rules of operations is also developed. Not open to students with credit for a higher level math course. Prerequisite: ACT Math 17 or below or SAT Math 470 or below.

## **MATH 140 Practical Statistics**

Is an introduction to statistical ideas, reasoning, and methods with the goal of equipping students with the ability to carry out common statistical calculations and procedures in order to be able to understand how statistical concepts are applied in other fields of study and by future employers. Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher.

## **MATH 150 Quantitative Reasoning for the Liberal Arts**

Studies various quantitative concepts in mathematics, such as sets, counting methods, probability, statistics, functions, matrices, graphs, and trees; and applies these concepts either to a variety of different disciplines or to a single subject centered on a theme. Not open to students with credit for 225. Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher.

## **MATH 170 Applied College Algebra**

Develops algebraic concepts and skills concerning linear, quadratic, rational, and radical functions along with their equations and graphs. Algebraic concepts are applied to construct mathematical models. Not open to students with credit for a higher level math course. Prerequisite: MATH 100 or ACT Math 18 or higher or SAT Math 471 or higher.

## **MATH 180 Precalculus**

Concentrates on preparing students with the concepts and skills that apply to the study of Calculus. Topics include polynomial, exponential, logarithmic, and trigonometric functions along with their equations and graphs. Concepts of analytic geometry are also developed. Not open to students with credit for a higher level math course. Prerequisite: MATH 170 or ACT Math 21 or higher or SAT Math 546 or higher.

## **MATH 190 Calculus I**

Introduces the concepts of limit, continuity, derivative, integral, and applications. It assumes some knowledge of trigonometric functions and equations for lines and conic sections. Prerequisite: MATH 180 or ACT Math 24 or higher or SAT Math 576 or higher.

## **MATH 200 Calculus II**

Continues the study of calculus and includes such topics as applications of integrals, methods of integration, logarithms, exponential, indeterminate forms, polar and parametric equations, and infinite series. Prerequisite: MATH 190.

## **MATH 225 Discrete Mathematics**

Introduces set theory and probability and deals with relations, digraphs, trees, lattices, and Boolean algebras and their computer application, as well as studying languages and grammar. Prerequisite MATH 180 or ACT Math 24 or higher or SAT Math 576 or higher and CPSC 100.

## **MATH 230 Linear Algebra and Vectors**

Includes the study of vectors, matrix algebra, vector spaces, linear transformations, and determinants. Prerequisite: MATH 190.

## **MATH 310 Calculus III**

Includes the study of the basic concepts of calculus applied to functions of more than one variable such as 3-dimensional coordinate systems and graphs, vector products, partial and directional derivatives, multiple and path integrals. Related applications such as velocity, acceleration, curvature, mass, and work are also studied. Prerequisite: MATH 200.

## **MATH 320 Differential Equations**

Includes the study of first and higher order differential equations, methods for obtaining solutions, and applications. Prerequisite: MATH 200, 230.

## **MATH 330 Algebraic Structures**

Includes the study of groups, rings, fields, vector spaces, and other related topics. Prerequisite: MATH 225, 230.

## **MATH 340 Mathematical Statistics**

Includes the basic theory and applications of probability and statistics. Co-requisite: MATH 310.

## **MATH 350 Numerical Analysis**

Presents the concepts and methods of numerical solutions for mathematical problems and includes applications using the computer. Prerequisites: MATH 200, 230, CPSC 100.

## **MATH 360 Geometry**

Presents the study of several geometries, including synthetic and metric Euclidean, non-Euclidean, projective, and finite geometries. Prerequisite: MATH 225.

## **MATH 370 History of Mathematics**

Surveys the history and development of mathematics from ancient times through to the present day. It shows the contributions made to the field by mathematicians from diverse ethnic, racial, and gender groups. Prerequisite: MATH 190, 225, 230.

## **MATH 410 Analysis**

Presents a rigorous development of the calculus and an introduction to real analysis. Prerequisite: MATH 225, 310.

## **MATH 420 Complex Analysis**

Is an introductory study of the theory of functions of complex variables. Prerequisite: MATH 310, 320.

## **MATH 490 Topics in Mathematics**

Studies in greater depth topics in the other listed courses. Prerequisite: Permission of the instructor.

## **MATH 495 Mathematics Seminar**

Provides a setting for the study and mastery of selected expository papers. Students lecture on the subject of the chosen paper and take an oral examination. Prerequisite: Permission of instructor.

## **MEDIA 150 Introduction to Convergent Media**

An introductory course which provides multimedia instruction to create content for convergent media audiences. This course teaches principal skills to prepare students to publish in audio, photo, print, video and web converged platforms. Conceptual, practical, and ethical frameworks for integrating traditional and new forms of media gathering, reporting, and storytelling are emphasized. This course provides hands-on training and critique to prepare students for journalism, media production and public relations majors.

## **MEDIA 210 Media Literacy**

Examines the many ways in which media influence individuals and society. Students are introduced to the scholarly study of media effects and media theories. The media literacy perspective establishes the principle that the more one knows and understands how media affect people, including self, the better able the individual is to evaluate, control, and maximize appropriate media exposure and consumption. The course provides information about how audiences are influenced by and react to mediated messages.

## **MEDIA 240 Broadcast Writing and Reporting**



Emphasizes the production planning, writing, and scripting processes as the necessary first steps in preparing material for radio and television productions. Students write and deliver broadcast news and features, commercials, promotional announcements, and longer format programs. Prerequisite: MEDIA 150.

## **MEDIA 300 Visual Communication**

Introduces principles and theories of the study of two-dimensional images, specifically those developed with informational or persuasive intent. Students acquire visual literacy skills that will allow them to evaluate and critique messages. They demonstrate understanding by using electronic graphic and web design software to design an electronic portfolio of visual communication messages.

## **MEDIA 308 Single Camera Video Production and Editing**

Introduces single-camera production and editing techniques and their creative applications in various program formats. Pre-production planning and design, field production and nonlinear editing projects are emphasized. Students develop reasonable standards of criticism for their own work and that of others. Prerequisite: MEDIA 240 or instructor permission.

## **MEDIA 312 Electronic Media Structure and Content**

Surveys programming, economic, and structural issues in contemporary electronic media. The impact of new communication technologies on the traditional radio/television enterprises is also emphasized.

## **MEDIA 365 Audio Production**

Introduces basic audio recording and editing techniques and their creative applications in electronic media production. Students develop reasonable standards of criticism for their own work and that of others. Prerequisite: MEDIA 240.

## **MEDIA 399 Internship**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U. Prerequisite: Junior standing, 2.5 GPA and instructor permission. Cross listed as DMD 399, JOURN 399, PBRL 399.

## **MEDIA 415 Advanced Media Production**

A project-oriented audio and video production class providing the opportunity for students to continue to develop skills learned in the introductory media production classes (see prerequisites below). The course emphasizes focused and methodical pre-production planning and scripting, production, and post-production refinement and evaluation as the necessary phases of the production process. Students work individually and in groups. Specific assignments and projects are determined by the instructor at the start of the semester, depending on the makeup of the class. Prerequisites: MEDIA 150, 308, 365.

## **MEDIA 420 Media Law**

Examines the legal structure and case law within which the media operate. The course surveys interpretations of the First Amendment, legal issues involving libel, privacy, newsgathering, electronic media regulation, obscenity, indecency, intellectual property, and advertising. While the course covers the history and development of media law, the emphasis is on contemporary legal issues in a digital media environment. Prerequisite: MEDIA 210 or MEDIA 312 or instructor permission.

## **MEDIA 450 Advanced Convergent Media**

Provides students opportunities to practice long-form multimedia content creation for convergent media audiences. Students gather and publish in audio, photo, print, video, and web converged platforms. Conceptual, practical, and ethical frameworks for integrating new forms of media gathering, reporting, and storytelling are emphasized. This course provides thorough critiques to prepare students for advanced production courses and career practice.

## **MEDIA 495 Seminar**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor. Prerequisite: COMM 360.

## **MBIO 211 Topics in Molecular Biology**

Includes presentation and discussion of molecular biology topics of current interest and importance. This is a seminar-style course which provides the opportunity for students to gain an understanding of the field through general readings as well as the recent literature. May be repeated once for credit.

## **MBIO 411 Topics in Molecular Biology**

A seminar-style course which examines in depth, through readings, discussions and presentations, important topics in the field. Molecular biology majors must take the course for at least one credit. May be taken for additional credit. Prerequisite: MBIO 211, BIOL 375, CHEM 214, 315.

## **MBIO 417 Molecular Biology Seminar**

Involves library research in a molecular biological topic, related to the research to be conducted in 418. The course also features student oral presentations and a written paper related to the library and lab research. Prerequisite: MBIO 211, BIOL 375, CHEM 214, 315.

## **MBIO 418 Research in Molecular Biology/Internship**

Builds on 417. Students may satisfy this requirement by conducting lab research in molecular biological problems in the science division, or with an internship which has the prior approval of the molecular biology faculty. Prerequisite: MBIO 417.

## **MUSC 100 Performance Seminar**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor. Music majors, and minors who have course work still remaining, must register for MUSC 100 or 300.

## **MUSC 101 Fundamentals of Music Theory**

A course designed to introduce the general college student to music reading and music theory, including structures of notation and basic elements: intervals, scales, meter, and rhythm. The course includes basic theory, ear training, and keyboard harmony and can be a preparatory course for the Materials of Music sequence.

## **MUSC 110 History of Popular Music**

Introduces students to an historical and cultural perspective on trends in popular music of the 20th and 21st centuries in the United States.

## **MUSC 111 Materials of Music I**

Introduces students to the fundamentals of music, structures of notation and basic elements: intervals, scales, and meter; rhythmic, melodic and harmonic progressions; and studies in part writing. In addition, this course introduces students to an overview of music literature in order to provide an understanding of the relationships among various styles of music.

Prerequisite: Departmental placement exam or instructor consent.

## **MUSC 112 Materials of Music II**

A continuation of 111. Prerequisite: MUSC 111 or instructor consent.

## **MUSC 115 Aural Skills I**

Studies music based on the structure and aural recognition of intervals; meter; and rhythmic, melodic and harmonic progressions, through solfeggio; ear training, and written dictation. Students analyze structure and recognition of tertian harmony through keyboard application.

## **MUSC 116 Aural Skills II**

A continuation of 115. Prerequisite: MUSC 115 or instructor consent.

## **MUSC 121 Introduction to Music**

A survey course designed to introduce the general college student to aspects of music, music creating, and a broad spectrum of music literature and styles.

## **MUSC 131 Brass Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 133 Woodwind Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 135 String Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 137 Percussion Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 140 Diction for Singing**

Introduces vocal students to IPA (International Phonetic Alphabet), and its use in English, Italian, German and French lyric diction. Required for all first-year music education majors, music majors, music and musical theatre minors, with a vocal concentration.

## **MUSC 141 Voice**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 143 Keyboard**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 145 Composition**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 149 Jazz Improvisation**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 150 Piano Accompanying (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 160 Southeastern Ohio Symphony Orchestra (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 161 Wind Ensemble (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 162 Concert Choir (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 163 Choral Society**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 164 Musical Theatre Workshop**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 165 Campus Choir**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 166 Chamber Singers**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 167 Muskingum Valley Symphonic Winds (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 168 Jazz Ensemble**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.



## **MUSC 169 Spirit Band**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 170 Chamber Ensembles**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 181 Introduction to Music Education**

Provides an overview of the theories, methodologies, and philosophies of music education from 1700 to the present.

## **MUSC 190 Piano Class I**

A study of the basic keyboard skills necessary for careers in music. Prerequisite: Instructor consent.

## **MUSC 191 Piano Class II**

A continuation of 190.

## **MUSC 211 Materials of Music III**

A continuation of 112. Prerequisite: MUSC 112 or instructor consent.

## **MUSC 212 Materials of Music IV**

A continuation of 211 and includes form and analysis and compositional techniques. Prerequisite: MUSC 211 or instructor consent.

## **MUSC 215 Aural Skills III**

A continuation of 116. Prerequisite: MUSC 116 or instructor consent.

## **MUSC 216 Aural Skills IV**

A continuation of 215. Prerequisite: MUSC 215 or instructor consent.

## **MUSC 281 Woodwind Methods and Pedagogy**

Provides practical study of woodwind instruments with materials and methods of teaching.

## **MUSC 282 String Methods and Pedagogy**

Provides practical study of string instruments with materials and methods of teaching.

## **MUSC 283 Brass and Percussion Methods and Pedagogy**

Provides practical study of the brass and percussion instruments with materials and methods of teaching.

## **MUSC 284 Voice Pedagogy and Practicum**

Introduces the fundamental concepts and implementation of vocal pedagogy practices through literature study, observation, singing, and applied pedagogy (guided teaching).

## **MUSC 290 Piano Class III**

A continuation of 191.

## **MUSC 291 Piano Class IV**

A continuation of 290.

## **MUSC 295 Piano Proficiency**

A performance examination of a music major's skills and is a department requirement. A grade of Satisfactory is noted on the transcript upon successful completion.

## **MUSC 300 Performance Seminar**

Concentrates on the skill of performance. Also included in the course is the continuous development of the critical listening skills needed for a music major or minor. Music majors, and minors who have course work still remaining, must register for MUSC 100 or 300.

## **MUSC 301 Topics in Music**

Provides the advanced student an opportunity to study selected topics in music. The course may be repeated as subject matter changes. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212.

## **MUSC 302 Topics in Music**

Provides the advanced student an opportunity to study selected topics in music. The course may be repeated as subject matter changes. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212.

## **MUSC 303 Topics in Music**

Provides the advanced student an opportunity to study selected topics in music. The course may be repeated as subject matter changes. Examples of emphases could be church music, arranging, marching band techniques, diction, jazz, or pedagogy.

Prerequisite: MUSC 212.

## **MUSC 310 Excursions in World Music**

A survey of music genres from various cultures and ethnicities around the world. Emphasis is placed on the relationship between music and its cultural content.

## **MUSC 315 Instrumentation**

A study of scoring techniques for band, choir, and orchestra. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 321 Western Music History I**

A detailed study of music from antiquity through Mozart. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 322 Music History II**

A detailed study of music from Beethoven through the present day. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 331 Brass Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 333 Woodwind Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition,

conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 335 String Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 337 Percussion Instruments**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 341 Voice**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 343 Keyboard**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 344 Commercial Recording**

A course designed to provide an introduction to the techniques of sound reinforcement and music recording through instruction and hands-on recording of department concerts and through the mixing of recorded tracks resulting in a CD.

## **MUSC 345 Composition**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 347 Conducting**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 349 Jazz Improvisation**

Applied Music offers private instruction to all students at all levels in brass, woodwind, string, percussion, keyboard instruments, and voice. With departmental and instructor permission, students may also take applied lessons in composition, conducting, and jazz improvisation. Students should consult with the appropriate instructor to determine course and section number. Fees for applied music are levied in addition to the regular tuition charges.

## **MUSC 350 Piano Accompanying (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 360 Southeastern Ohio Symphony Orchestra (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 361 Wind Ensemble (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 362 Concert Choir (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 363 Choral Society**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 364 Musical Theatre Workshop**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 365 Campus Choir**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 366 Chamber Singers**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 367 Muskingum Valley Symphonic Winds (major ensemble)**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 368 Jazz Ensemble**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.



## **MUSC 369 Spirit Band**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 370 Chamber Ensemble**

Ensembles offer collaborative group instruction in music rehearsal and performance. Repertoire appropriate to the type, size, and level of each ensemble is studied and presented regularly in public concerts and recitals. Major ensembles (Southeastern Ohio Symphony Orchestra, Wind Ensemble, and Concert Choir) are open to all students by audition and instructor permission. A maximum of 10 hours of ensemble credits may be counted toward minimum graduation requirements.

## **MUSC 371 Conducting I**

The introductory course to conducting a musical ensemble. Emphasis is placed on beat patterns, left hand techniques, and musical leadership. Prerequisites: MUSC 212, or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 372 Conducting II**

The advanced course in conducting a music ensemble. Emphasis is on rehearsal, visual representation of the aural score, analysis of performance problems, and performance and pedagogical literature. Prerequisite: MUSC 371.

## **MUSC 382 Music Education: Teaching General Music**

Focuses on methods, materials, objectives, skills, and instructional strategies for the development of basic musical concepts in the general music classroom in grades Pre-K–8. Specialized approaches of Dalcroze, Kodály, and Orff are studied; field observation hours for Pre-K–8 are included. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 383 Music Education: Teaching Vocal Music**

Studies the methods, materials, objectives, and instructional strategies for the teaching of vocal and choral music in grades 4–12. Field observation hours for grades 4–12 are included. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 384 Music Education: Teaching Instrumental Music**

Studies the administration and teaching of instrumental music in the schools (4–12) and the teaching of general music in grades 9–12. Field observation hours for grades 9–12 are included. Prerequisites: MUSC 212 or instructor consent and successful completion of the Junior Qualifying Exam.

## **MUSC 401 Senior Recital**

Together with 445, is the capstone of the music or music education major. All students presenting a senior recital must be enrolled in the appropriate corresponding applied music course during the semester of the recital. Prerequisite: MUSC 445, instructor consent.

## **MUSC 445 Senior Seminar**

Together with 401, is the capstone of the music or music education major. The Senior Seminar focuses on research, analysis, and writing skills pertaining to the musical arts and the field of music education, and culminates in oral presentations and/or a major analytical research paper. Prerequisites: Successful completion of the Materials of Music sequence; completion of MUSC 321; completion of or enrollment in MUSC 322; instructor consent.

## **MUSC 482 Music Education: Professional Semester in Elementary Education**

Involves students as practice teachers in an elementary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member. Prerequisites: MUSC 382, 383, 384.

## **MUSC 483 Music Education: Professional Semester in Secondary Education**

Involves students as practice teachers in a secondary school music program under the supervision and guidance of a cooperating teacher and Muskingum faculty member. Prerequisites: MUSC 382, 383, 384.

## **NRSC 201 Topics in Neuroscience**

Is a seminar-style course team taught each semester by the neuroscience faculty. It explores in detail a particular topic in the field through reading and discussion of recent published reports. Neuroscience majors must take the course three times.

## **NRSC 305 Cognitive Neuroscience**

Is a junior-level introduction to human cognition from neuroscientific and evolutionary perspectives. Students begin by learning the historical and philosophical antecedents of the field. Students then develop an understanding and appreciation for cognition and research methodology in the field; topics include perception, attention, memory, language, brain organization and plasticity, and the problem of consciousness. Prerequisites: BIOL 112 and PSYC 281.

## **NRSC 308 Neuroscience Practicum**

Is a “real world” introduction to current research topics in the discipline. Students conduct several laboratory projects in this course. They also attend the annual meeting of the Society for Neuroscience or a regional neuroscience conference and report on their experience. Prerequisite: Junior standing and permission of instructor.

## **NRSC 368 Fundamental Neuroscience**

Emphasizes basic neurophysiology, neurochemistry, synaptic function, coordinated organismal functions, and common neurological disorders. Laboratory emphasizes neuroanatomy. Prerequisite: BIOL 108, 112, 226. Cross listed as BIOL 368.

## **NRSC 386 Neuropharmacology**

Provides basic explanations concerning how drugs act in the brain. The primary focus will be at the cell/molecular level with a lesser focus on the effects at the organismal level. Prerequisites: BIOL 108, 112, 226, CHEM 111, 112.

## **NRSC 407 Neuroscience Research I**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation. They also present a poster at the Annual Science Poster Session.

## **NRSC 408 Neuroscience Research II**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation. They also present a poster at the Annual Science Poster Session. Prerequisite: NRSC 407.

## **NRSC 409 Neuroscience Research III**

Part of a three-semester sequence of courses in an independent study program designed to provide opportunities to practice inquiry and discovery while intensively investigating a fundamental problem in neuroscience. In the first semester, students search the current scientific literature related to their topic and prepare a review paper and a research proposal. During the senior year, the students conduct an original investigation and produce both a scientific paper and an oral presentation. They also present a poster at the Annual Science Poster Session. Prerequisite: NRSC 408.

## **NURS 125 Foundations in Nursing**

An introduction to the theoretical foundations of nursing and concepts of health promotion, caring, cultural competence, communication, critical thinking and the nursing process.

## **NURS 226 Health Assessment**

Is designed to systematically teach the knowledge and skills needed to perform a comprehensive health history and physical assessment on the adult client. Content related to the techniques of inspection, palpation, percussion and auscultation are taught. Utilization of assessment data that includes physiological, psychosocial, developmental and genetic factors, and skills within diverse cultures in multiple health care settings are emphasized. The analysis of assessment data enables students

to enhance clinical reasoning, decision making and communication skills. Students have the opportunity to practice and demonstrate assessment skills learned in the laboratory setting. Prerequisites: Must meet all nursing progression requirements.

## **NURS 227 Fundamentals of Nursing Practice**

Introduces theories, principles and concepts relative to basic fundamental nursing practice. Students utilize concepts and content taught in the arts and sciences, including health assessment, to begin developing critical thinking skills and nursing care planning in accordance with the nursing process. Psychomotor and interpersonal communication skills are taught, along with principles of safety and infection control using evidence based practice concepts. Students learn and practice psychomotor skills in the nursing laboratory prior to performance in the clinical agency to which they are assigned. Prerequisites: Must meet all nursing progression requirements.

## **NURS 230 Pharmacology**

The focus of this course emphasizes pharmacodynamics and clinical uses of various classes of drugs in the healthcare setting. Drugs discussed include those used for hypertension, infection, cancer, pain and diseases of the cardiovascular, renal, respiratory, endocrine, gastrointestinal and central nervous systems. This is a theory only course. Prerequisites: Must meet all nursing progression requirements.

## **NURS 251 Introduction to Clinical Practice in Medical-Surgical Nursing**

Introduces the nursing process of caring for adults and their family with acute and chronic health alterations. The student uses the nursing process to care for the adult medical-surgical patient and their family in a holistic manner using information based on current evidence-based practice. A combination of classroom, laboratory and clinical teaching strategies are used to introduce nursing concepts and content related to physiological adaptation, psychosocial integrity, pharmacological therapy, cultural competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected. Co-requisite: NURS 230. Prerequisites: Must meet all nursing progression requirements.

## **NURS 330 Transitions in Professional Practice (MAP)**

This course provides an introduction to the Bachelor of Science in Nursing philosophy at Muskingum University. Aspects of professional nursing practice will be addressed, including scope of practice, nursing process, cultural awareness,

communication applications, writing standards, presentation development, collaboration, and the use of informatics to facilitate proficiency in Evidence Based Practice (EBP). Prerequisite: Admission to the RN to BSN program track.

## **NURS 335 Health Assessment (MAP)**

This course increases knowledge and skills in performing the client health history and physical assessment. Utilization of assessment skills and data collection across the lifespan, within diverse cultures, and in multiple health care settings will be emphasized. The analysis and synthesis of assessment data will enable students to enhance clinical reasoning, decision-making and communication. Prerequisite: Admission to the RN to BSN program track.

## **NURS 340 Nursing Research**

Introduces the basic skills necessary to critique nursing research. Focuses on research methodology, interpreting research articles and evaluating the usefulness of findings for evidence-based nursing practice. This is a theory only course. Prerequisites: Must meet all nursing progression requirements.

## **NURS 351 Clinical Practice in Medical-Surgical Nursing**

Students are expected to apply nursing knowledge and use critical thinking skills based on evidence-based nursing practice to care for adults and their family with acute and chronic health alterations. A combination of classroom, laboratory and clinical teaching strategies are used to continue building from prior program coursework on the concepts and content related to physiological adaptation, psychosocial integrity, pharmacological therapy, culture competence, ethical practice and leadership. Professional communication using oral, written and information technology is expected. Prerequisites: Must meet all nursing progression requirements.

## **NURS 360 Mental Health and Family Nursing**

The purpose of this course is to apply the concepts of mental health to individuals and groups. The concepts to be emphasized include therapeutic communication, caring, cultural competence, evidence-based research practices and leadership/management affecting selected mental health alterations. This course includes theory and clinical practice. Prerequisites: Must meet all nursing progression requirements.

## **NURS 375 Nursing Care of Parents, Newborns and Children**

This course addresses the needs of child-bearing parents, newborns and children as they progress through the stages associated with health promotion, wellness and illness in normal age related changes, pregnancy, child development and rearing from conception through adolescence. The student uses critical thinking skills in the application of the nursing process with parents, families in childbirth, postpartum, and newborns through adolescence. Nursing implications relevant to physiological, developmental and genetic factors that influence the care of parents and children are covered. The nursing lab provides students the opportunity to learn and apply nursing skills relevant to the care of newborns through adolescence and of pregnant women. Clinical practice is provided in maternity and pediatric settings commensurate with the course content. Prerequisites: Must meet all nursing progression requirements.

## **NURS 430 Perspectives in Global Nursing and Health**

Provides an overview of major health problems from a global perspective. It identifies health priorities of the 21st Century, discusses how healthcare systems operate in different countries and provides examples of organizations that address global health issues. This is a theory only course. Prerequisites: Must meet all nursing progression requirements and have upper division status in nursing.

## **NURS 450 Critical Care and Family Nursing**

Identifies interrelationships of physiologic and psychosocial factors in patients with complex multi-system impairment in critical care settings. Analysis of ethical decision making with use of advanced technology that affects human dignity is explored. Emphasis is placed on the caring nursing process and on cultural competence in working with patients and families having multi-system dysfunctions. This course includes theory, laboratory, and clinical practice. Prerequisites: Must meet all nursing progression requirements.

## **NURS 451 Nursing Care of Adults with Complex Health Problems**

Students analyze and apply the concepts of physiological adaptation, psychosocial integrity, pharmacological therapy, cultural competence, ethical practice and leadership in the management of care for adults with complex multi-system health alterations. A combination of classroom laboratory and clinical teaching strategies are used to plan and implement evidence-based nursing care for the complex patient and their family. Professional communication using oral, written and information technology is expected. Prerequisites: Must meet all nursing progression requirements.

## **NURS 460 Community Health Nursing**

Focuses on the concepts of public health, epidemiology and community health nursing with emphasis on health promotion and disease prevention. An assessment of a rural community is completed. Cultural influences, chronic health problems, communicable diseases, disaster preparedness, health financing and environmental issues are examined in relation to community and family health practices. Health risks of individuals and families in the community are explored in terms of teaching/learning activities, caring ethics, nursing process and research through evidence-based practice. This course includes theory and clinical practice. Prerequisites: Must meet all nursing progression requirements.

## **NURS 470 Contemporary Issues in Nursing and Health (MAP)**

This course examines the history and contemporary status of the American healthcare system as it relates to social, economic, cultural, political, and educational forces affecting nursing and health care. The role of the nurse is explored related to professional, legal, and ethical responsibilities. Nursing theorists are discussed and analyzed in terms of applicability for nursing practice. The student will also prepare for career opportunities and credentialing issues for life-long learning. Prerequisite: Admission to the RN to BSN program track.

## **NURS 475 Issues and Trends in Health and Nursing**

Examines the history and current status of the American healthcare system as it relates to social, economic, cultural, political and educational forces affecting nursing and healthcare. Focus is also on the role of the nurse in regard to professional, legal and ethical responsibilities. Nursing theories are discussed and analyzed in terms of applicability to nursing practice. The student also prepares for career opportunities and credentialing issues. This is a theory only course. Prerequisites: Must meet all nursing progression requirements.

## **NURS 476 Issues and Trends: Preparation for Licensure**

Provides a structured format for preparing students for the NCLEX-RN licensure process. Students participate in both faculty-guided and self-directed learning exercises that focus on successful behaviors in preparation for licensure requirements. Prerequisites: Must meet all nursing progression requirements.

## **NURS 480 Nursing Leadership and Management (MAP)**

This course emphasizes development of leadership skills in nursing practice. Organizational, leadership, management and change theories are examined. Effective group leadership skills to assist in directing and/or providing safe, ethical care for



groups of patients will be discussed. A significant component of the course will be the completion of an evidence based clinical project. Theory and clinical course. Prerequisite: Successful completion of NURS 330, 335, 340, 430, and 470.

## **NURS 485 Nursing Leadership and Management of Care**

Emphasizes the development of leadership skills in nursing practice. Organizational leadership, management and change theories are examined. Opportunities are provided for socialization into the professional nursing role in healthcare agencies. Students are expected to function with a high degree of independence, use effective group/leadership skills and direct and/or provide safe, ethical care for groups of patients. Prerequisites: Must meet all nursing progression requirements.

## **NURS 486 Nursing Leadership and Management**

Development of leadership skills in nursing practice is emphasized. Organizational leadership, management and change theories are examined as they relate to the practice of nursing in dynamic and complex healthcare delivery systems. Ethical, political, legal, and social issues that influence healthcare management are explored. Students are expected to analyze practical leadership and management case scenarios and substantiate their analyses with evidence from the literature. An evidence-based project is completed that includes leadership concepts and theories covered in the course. Prerequisites: Must meet all nursing progression requirements.

## **NURS 487 Nursing Senior Capstone: Preparation for Licensure and Practice**

Focuses on the application of nursing content as it relates to preparation for licensure and entry into practice. Opportunities for socialization into the professional nursing role are provided. Students are expected to function with a high degree of independence, collaborate with other healthcare professionals, use effective group/leadership skills and direct and/or provide safe, ethical care for their patients. Students are required to successfully complete a clinical experience, and apply the nursing process to patients in the healthcare setting. At the conclusion of the course students take a comprehensive predictor exam, and submit a nursing program objectives portfolio. Prerequisites: Must meet all nursing progression requirements.

## **NURS 490 Special Topics**

This elective option is reserved for selected topics in Nursing. The course title, description, and syllabus are subject to approval of the instructor and the Chair of the Department. Prerequisite: Upper division status in Nursing or permission of instructor.

# **PHIL 101 Introduction to Western Philosophy**

Introduces students to some of the key writers and concepts in philosophy, with a special emphasis on Western Philosophy (i.e. European and American). Topics could include human freedom, personal identity, the nature and existence of God, the problem of evil, the nature of knowledge, theories of truth, and approaches to values.

# **PHIL 202 Logic and Critical Thinking**

Examines formal and informal techniques for evaluating arguments in order to improve critical thinking skills. Topics include informal fallacies of reasoning, uses and abuses of language, arguments in context, symbolic logic, and validity.

# **PHIL 203 Introduction to Ethics**

Critically examines ethical theories of the criteria used to make justified and responsible ethical decisions. Considers difficult moral problems connected to topics such as killing, lying, fairness, sexual morality, environmental concerns, and professional ethics.

# **PHIL 305 Biomedical Ethics**

Explores moral issues relating to medicine and biology. Examples of issues considered include euthanasia, genetic engineering, disabilities, and allocation of healthcare resources. Students explore arguments about these issues using the concepts and principles of ethical theory.

# **PHIL 325 Western Philosophy: The Ancients**

Investigates Greek and Roman philosophy, with the possibility of including early Christian philosophy, in order to help students understand the origins of Western Philosophy. Includes figures such as Plato, Aristotle, Augustine, and Aquinas, as well as movements such as Stoicism and Epicureanism, with a focus on the role of rational inquiry in the quest for human flourishing.

# **PHIL 327 Western Philosophy: The Early Moderns**

Examines philosophies from 1600-1800 such as rationalism (Descartes, Spinoza), empiricism (Locke, Hume, Berkeley) and Kant's critical philosophy. Focuses on this period's response to scientific and political revolutions.

## **PHIL 331 Environmental Ethics**

Explores the nature and basis of our ethical obligations regarding the natural environment. Considers views of these obligations ranging from the human-centered (anthropocentrism), to the moral considerability of animals (animal liberation), to the notion that we have direct obligations to all living things or whole ecosystems (ecocentrism). Provides the opportunity to use these ethical perspectives to evaluate environmental policies, laws, or agendas.

## **PHIL 342 Religions and Philosophies of Asia**

Deals with the different forms of religious belief around the world—especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam. Cross listed as RELG 342.

## **PHIL 343 Social and Political Philosophy**

Considers theories of the nature and legitimacy of the state and its laws. Also deals with topics such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy. Cross listed as POLS 343, SOCI 335.

## **PHIL 350 Western Philosophy: The Late Moderns**

Examines philosophies from the late 1700s through the 1800s. Studies figures, such as Rousseau, Kant, Hegel, Marx, Mill, Kierkegaard, Nietzsche, Schopenhauer, Peirce, Comte, and Bradley. Focuses on themes, such as the historical and transcendental conditions of human knowledge, the possibility of progress, nihilism, and alienation.

## **PHIL 353 American Philosophy**

Studies American philosophical movements such as Transcendentalism, Idealism, Pragmatism, and Positivism. Some attention is given to the relation of philosophy to characteristic themes of American cultural and intellectual life. Examples include religion in the age of science, Darwinism in social theory, the value and nature of education, social and political reform movements, changing conceptions of democracy, and cultural pluralism.

## **PHIL 354 Continental Philosophy**

Presents a survey of the philosophical developments in 20th century continental philosophy, such as phenomenology, existentialism, structuralism, deconstruction, feminism, and critical theory. Focus is on themes of being and consciousness, language and truth, history and culture, and theory and practice. Possible figures of study are Heidegger, Sartre, Foucault, Derrida, Habermas, and Irigaray.

## **PHIL 360 Topics in Philosophy**

Allows students to explore special areas of philosophical study in more depth than regular course offerings can provide.

## **PHIL 361 Topics in Moral Philosophy**

Provides students the opportunity for advanced study of moral philosophy. Topics range from theoretical questions about the status of morality to practical questions about specific moral problems. Descriptions of the course topic for a given semester are available in the course schedule bulletin and on the religion and philosophy department website.

## **PHIL 403 Directed Readings in Philosophy**

Gives the student an opportunity to do intensive readings in areas of philosophy selected in consultation with the department.

## **PHIL 495 Senior Seminar Research in Philosophy**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department

## **PHIL 496 Senior Seminar**

Involves writing an extensive research paper on a focused topic. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department. This course culminates in an oral defense of the project. Prerequisite: PHIL 495

## **PE 101 Concepts of Wellness**

Develops an understanding of basic exercise physiology and physical training principles. Students learn to assess their own personal level of physical fitness and the benefits of proper physical activity. At the conclusion of the course, students are ready to continue a lifetime of healthy physical fitness activity. Appropriate for adolescent level students.

## **PE 102-140 Physical Education Service Courses**

Enable students to fulfill individual sports, team sports, and activity interests by covering a wide variety of activities such as aerobic fitness, archery, badminton, cheerleading and dance, flag football, lifeguard training, water safety instructor, tennis, golf, racquetball, soccer, softball, and varsity athletics. No activity may be repeated for credit, and a maximum of three activities may be counted toward graduation requirements. Varsity athletes may take their respective varsity sport in any year of participation.

## **PE 149 Physiology of Exercise**

Analyzes the responses of the human body to physical activity, including an awareness of the various types of flexibility, strength training, and cardiovascular conditioning programs. This course aligns with the goals and objectives for physical education teacher candidates seeking multi-age licensure. Hands-on activities within the course structure allow students to have practical evaluation experiences.

## **PE 151 Practica**

Are taken by students interested in training or working as student assistants with various sports. A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 203 Foundations of Athletic Skills: Individual**

Instructs the physical education major in the fundamental skills of the individual sports of archery, badminton, bowling, dance, racquetball, swimming, and tennis. Special emphasis is placed upon instruction and practice to allow for development of individual skill level. Prerequisite: Declared physical education major.

## **PE 204 Foundations of Athletic Skills: Team**

Instructs the physical education major in the fundamental skills of the team sports of basketball, soccer/speedball, softball, volleyball, field hockey (women), and football (men). Special emphasis is placed upon instruction and practice to allow for development of team skill level.

## **PE 220 Lifeguarding/Water Safety Instructor**

Teaches the methods prescribed by the American Red Cross to save a victim of multi-age in need and ensure safety in an aquatic environment. Special attention is paid to the safety considerations and legal ramifications presented to the lifeguard. Counts as a service course.

## **PE 251 Practica**

Are taken by students interested in training or working as student assistants with various sports. A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 310 First Aid**

Is designed to prepare students in administering immediate care to the injured and suddenly ill and to provide temporary care until medical help arrives. Students have the opportunity to earn Emergency Care and Safety Institute certification.

## **PE 319 Motor Learning and Adaptive Physical Education for Early Childhood**

Is designed to provide the future educator with the necessary foundation of fundamental movement concepts and principles for children ages 3-8. Special emphasis is placed upon the use of developmentally appropriate practice to enhance the acquisition of more complex motor skills and patterns. In addition, educators are given specific strategies necessary in the educating of children who require skill adaptation and the use of prescriptive exercise and equipment. Educators attempt to establish a positive attitude and appreciation for regular health-related physical activity throughout the child's lifespan. Lastly, the educator experiences first hand the importance of movement activities and how they assist in the child's psychological, physical, intellectual, and social development. Required field experience: 15 hours.

## **PE 321 Motor Learning and Adaptive Physical Education for Middle Childhood**

Presents methods and materials for complete physical education instruction for children ages 9-14. Emphasis is on movement education, movement exploration, physical fitness, dancing, and specialized sports skills of basketball, football, floor hockey, soccer, softball, track and field, and volleyball. Practical teaching experience is included, and teaching units are developed. Required field experience: 15 hours.

## **PE 338 Kinesiology**

Is the study of musculoskeletal anatomy for efficient bodily movement. Offers application of kinesiological and biomechanical principles for the implementation of physical education programs for students of multi-age. Laboratory activities allow students to have hands-on practical evaluation experience.

## **PE 341 Principles of Physical Education, Evaluation and Measurements**

Deals with basic concepts, philosophical foundation, and subsequent applications in physical education for multi-age students. Included are specific testing, measurement, and evaluation procedures utilized in the classroom.

## **PE 351 Practica**

Are taken by students interested in training or working as student assistants with various sports. A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 355 Sports Ethics**

Explores the various ethical issues in the area of sports and athletics. The class presents the framework for arriving at ethical decisions and actions, while uncovering the pressures to act in an unethical manner.

## **PE 416 Teaching Physical Education Activities**

Is concerned with the methods and materials for teaching archery, badminton, bowling, racquetball, golf, dance, swimming, and tennis. Included is practice in teaching and conducting class activities for both middle and adolescent level students. Required field experience: 20 hours. Prerequisite: PE 203

## **PE 418 Coaching Team Sports**

Prepares students to handle coaching problems, such as organization, fundamental practice drills, strategies of play, selecting personnel, scouting, equipment, and keeping statistics. Football, soccer, basketball, volleyball, wrestling, baseball, softball, and track and field are covered for both middle and adolescent level students. Prerequisite: PE 204.

## **PE 450 Independent Elective**

Enables a student to work cooperatively with a staff member in a directed study in physical education, athletics, athletic training, recreation, or other areas with the approval of the department chair and the cooperating instructor.

## **PE 451 Practica**

Are taken by students interested in training or working as student assistants with various sports. A maximum of three practica may be taken for major or minor credit. Graded S/U.

## **PE 470 Administration, Organization, and Supervision of Health, Physical Education and Sports Programs**

Is designed to deal with the various methods of implementation for programs in health, physical education, intramurals, and sports. Special emphasis is also placed upon the supervision and evaluation procedures of such programs.

## **PE 490 Student Teaching Seminar**



Is taken during the professional semester to enhance the student teaching experience for the multi-age students. Student teachers discuss specific issues and concerns they are currently experiencing in the classroom.

## **PHEN 100 Physics for Video Games**

An introduction to the laws of physics needed to produce video games with compelling realism. Topics include kinematics, Newton's laws of motion, conservation of momentum, conservation of energy, rotational dynamics, video analysis, measurement, curve fitting, graphical interpretation, programming and simulation development. No programming experience is required. Three hours of lecture. Prerequisite: High school algebra.

## **PHEN 101 Conceptual Physics**

A conceptual-based introduction to classical physics. Topics include mechanics, properties of matter, thermodynamics, waves, sound, electricity, magnetism, and optics. Three hours of lecture and two hours of laboratory. Prerequisite: High school algebra.

## **PHEN 110 Introduction to Physics and Engineering**

An introduction to the physics and engineering profession. Basics of ethics, engineering design, engineering graphics, and presentation skills are studied. Students work in teams on a hands-on design project. One hour of lecture and two hours of laboratory.

## **PHEN 121 Classical Physics I**

For science and engineering majors: a calculus-based presentation of kinematics, mechanics, and thermodynamics in the first semester, followed by sound, light, and electromagnetism in the second semester. Three hours of lecture and two hours of laboratory. Recommended Co-requisite: MATH 190

## **PHEN 122 Classical Physics II**

For science and engineering majors: a calculus-based presentation of kinematics, mechanics, and thermodynamics in the first semester, followed by sound, light, and electromagnetism in the second semester. Three hours of lecture and two hours of laboratory. Recommended Co-requisite: MATH 200. Prerequisite: PHEN 121.

## **PHEN 150 Introduction to Astronomy**

An introduction to the science of astronomy and the scientific method. Topics include the history of astronomy, light and matter, astronomical instruments, the solar system, stellar characterization, stellar evolution, and the interstellar medium. The course concludes with a brief survey of galaxies and cosmology. A weekly laboratory may be complemented by outdoor observing. Three hours of lecture and two hours of laboratory.

## **PHEN 200 The Ideas of Modern Physics**

A conceptual introduction to the ideas of physics from the last 100 years. The course begins with an overview of classical physics and the scientific method and then explores the past century's most important discoveries and their applications. Topics include special and general relativity, quantum mechanics, atomic and nuclear physics, particle physics, cosmology, and string theory. Three hours of lecture. Prerequisite: High school algebra.

## **PHEN 203 Modern Physics**

A survey of 20th century physics: quantum mechanics with applications to nuclear, atomic, molecular, and solid state physics. Three hours of lecture and two hours of laboratory. Prerequisites: PHEN 122 and MATH 200.

## **PHEN 210 Statics and Dynamics**

Studies forces and moments that act on rigid bodies and the conditions that produce equilibrium and non-equilibrium. Three hours of lecture and two hours of laboratory. Prerequisite: PHEN 121. Co-requisite: MATH 200.

## **PHEN 235 Electronics**

An introduction to electrical measurements, electric circuit theory, semiconductor devices and circuits, and analog and digital circuits. 3 hours of lecture and 2 hours of laboratory. Prerequisites: PHEN 122, MATH 200.

## **PHEN 300 Material Science**

Examines the relationship between atomic structure, crystal structure, and microstructure of solids with their physical properties (mechanical, thermal, optical, electrical, and magnetic). Three hours of lecture and two hours of laboratory. Prerequisite: PHEN 203.

## **PHEN 310 Optics**

Studies the ray, wave, and photon nature of light and selected optical instruments. Three hours of lecture and two hours of laboratory. Prerequisite: PHEN 203.

## **PHEN 320 Thermodynamics**

Examines the properties of a pure substance, work and heat, the first law of thermodynamics, control volume analysis, entropy, the second law of thermodynamics, power and refrigeration systems and heat transfer. Three hours of lecture and two hours of laboratory. Prerequisites: PHEN 121, MATH 310.

## **PHEN 330 Principles of Design**

Introduces engineering science students to the design process: formulation of a problem, creative approaches to solving the problem, analysis, materials selection, and economics. Prerequisite: Declared major or minor in Engineering Science or instructor permission.

## **PHEN 340 Theoretical Physics I**

Introduces the Lagrangian and Hamiltonian formulations of mechanics and the formalism of quantum mechanics. Three hours of lecture. Prerequisites: PHEN 203, 210, MATH 230.

## **PHEN 350 Special Topics in Physics and Engineering**

Prerequisite: Declared major or minor in Engineering Science or Physics or instructor permission.

## **PHEN 360 Strength of Materials**

An introduction to the fundamental concepts and mechanics of deformable solids. Topics include stresses and strains in solids, material behavior, shear forces and bending moments, deflection of beams, torsion of circular shafts, Mohr's circle for plane stress, pressure vessels, column buckling, statically indeterminate structures, centroids and moments of inertia. Three hours of lecture. Prerequisite: PHEN 210.

## **PHEN 370 Electromagnetics**

Studies electricity, magnetism, and their interrelationships. Applications to the design and operation of electromagnetic components and systems are emphasized. Prerequisites: PHEN 122, MATH 310.

## **PHEN 405 Signals and Systems**

An introduction to basic concepts of signals, system modeling, and system classification. Convolution, response of linear time-invariant (LTI) systems, impulse response are presented. Emphasis is given to frequency-domain analysis of continuous-time and discrete-time signals and systems: Fourier series, Fourier, Laplace and z-transforms. Prerequisites: PHEN 235, MATH 320.

## **PHEN 410 Measurements**

An introduction to sensors, interface electronics, data acquisition, calibration and response, probability, statistics, uncertainty analysis and regression. Three hours of lecture and two hours of laboratory. Prerequisite: PHEN 235.

## **PHEN 415 Control Systems**

Introduces the analysis and design of control systems. Characteristics, performance, and stability of feedback control systems are studied. Mathematical and state-variable modeling and the root locus and frequency response methods are emphasized. Prerequisite: PHEN 405.

## **PHEN 420 Fluid Mechanics**

An introduction to the fundamental principles and applications of hydrostatics and fluid flow. Three hours of lecture and two hours of laboratory. Prerequisites: PHEN 210, MATH 320.

## **PHEN 425 Introduction to Electrical Power Systems**

An introduction to the analysis of magnetic circuits and polyphase balanced power systems. Topics include transformers and power transmission lines. Three hours of lecture. Prerequisite: PHEN 370.

## **PHEN 430 Theoretical Physics II**

Introduces statistical thermodynamics and elaborates on the formalism of electromagnetism. Three hours of lecture. Prerequisites: PHEN 320, 400.

## **PHEN 490 Introduction to Senior Project**

Prepares students for their senior project by stepping them through the process of writing and presenting a proposal for a design or research project. Students are required to (1) periodically present their progress on preparing their proposal, (2) submit their finished proposal, and (3) present it to students in the Introduction to Physics and Engineering course. 1 hour of lecture. Prerequisite: PHEN 330 for Engineering Science majors, PHEN 340 for Physics majors, or EDUC 394 for Physics Education majors.

## **PHEN 495 Senior Project**

The capstone course for the Physics and Engineering Science programs. Working as individuals or in teams in consultation with departmental faculty, students execute the design or research project they proposed in the Introduction to Senior Project course. Students are required to (1) periodically present their progress on implementing their proposal, (2) present a poster that describes their project for the Homer A. Anderson Family Science Colloquium series, and (3) submit a final report for their project. Prerequisite: PHEN 490.

## **POLS 111 American Political Systems**

Introduces students to the institutions, processes, and values that constitute the American political system. In dealing with such topics as First Amendment rights, Congress, the Presidency, parties and interest groups, bureaucracy, and public policy, some time is spent in examining select aspects of the social and political background to American politics.

# **POLS 121 Introduction to Public Administration and Policy**

Introduces students to the broad environment in which public policies are made in Europe and the United States. The relationship between the social ends desired and the administration employed and the difficulties of transferring the Western model of administration to other cultures are developed as themes. The intimate link between government administration and civilization is explored, and students are exposed to major elements of public administration, including administrative processes, organizational theory, human relations, and implementation.

# **POLS 131 Introduction to Comparative Politics**

Introduces students to foundational concepts and dynamics in the field of comparative politics. The course discusses patterns of political behavior, the essential elements of a political system, the institutions of different regimes, and the various ways in which states reconcile freedom, order, and equality. Numerous political systems are studied in comparative context. Both democracies and non-democracies are examined, with attention to the process of democratization in different systems.

# **POLS 151 Introduction to International Relations**

Introduces students to foundational concepts and dynamics in the field of international relations. Topics focus on the nature of interaction between political entities on the world stage, including states, IGOs, NGOs, and other entities. Topics covered include globalization and its consequences, the nature of East-West and North-South relations, the international economic system, the causes and consequences of war, and the international paths to peace.

# **POLS 310 US National Security**

Examines the nature of national and homeland security in the United States, including actors, institutions, and the impact of national security structures and behavior on the US and the world. Areas of concentration include the history of national security issues and concerns, changes in the post-9/11 world, homeland security issues, intergovernmental coordination and conflict, domestic and global implications of US policy, and both current and future challenges to US national security.

# **POLS 311 Congress and the Presidency**

Provides an understanding of the central policy-making institutions of the federal government: Congress and the Presidency. Attention is given to the constitutional power of Congress and the Presidency; the separation and delegation of powers; the

evolution of powers and the inter-institutional power relationship; the policy making process; and historical and contemporary political polarization.

## **POLS 312 Constitutional Law Governmental Powers**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of governmental powers. After examining the powers and activities of the Court, specific areas of law are examined. These include powers and limitations of each branch, separation of powers, checks and balances, issues of federalism, taxing and spending powers, and economic powers.

## **POLS 314 Political Communication**

Focuses on how communication manifests itself through politics. Attention is given to the nature and impact of mass media, which informs, shapes, and legitimizes political attitudes. Emphasis is given to theories of attitude formation and change, mass media as instruments of political communication and opinion leadership, how the media shapes public perceptions, the influence of political communication on public policy, and the media as a tool of political influence and control.

## **POLS 317 Constitutional Law II: Civil Rights and Liberties**

Focuses on the activity of the Supreme Court in interpreting the meaning of the Constitution through case law specific to the areas of civil rights and civil liberties. After examining the powers and activities of the Court, specific areas of law are examined. These include civil liberties (religion, speech, privacy, etc.), rights of the accused (search and seizure, due process, fair trial, etc.), and civil rights (equal protection, discrimination, etc.).

## **POLS 319 Political Parties and Elections**

Examines political parties found in democratic nations including multi-party systems with an emphasis on the case in the United States, and the meaning of parties for governing, political participation, and citizenship. Different election processes, election law, political finance, and the effects on outcomes are also studied.

## **POLS 321 Public Administration**

Studies the structures and processes for formulating and implementing public policies. Emphasis is given to the role of the national-level bureaucracy. State and local managerial and administrative concerns are addressed broadly and through specific illustrative examples.

## **POLS 322 Public Policy**

Establishes a framework for the policy cycle and applies it to selected policy concerns. The nature of public policy, making public policy, substantive policy issues, and policy analysis are explored.

## **POLS 323 Administrative Law**

Provides an understanding of the legal concepts that define what has been called “the bureaucratic state.” Students examine the law governing the creation of, powers of, and limitations upon administrative agencies of all sorts.

## **POLS 324 Urban Politics**

Focuses on the political and policy choices and the constraints cities face. Students are provided a theoretical base to analyze cities in terms of the issues they face, the factors that affect them, and the structure that they operate in. Important policy issues such as smart-growth strategies, economic development, and downtown revitalization are stressed.

## **POLS 325 Public Sector Human Resource Management**

Examines the environment of public employment. Differences between the public and private sector, the historical growth of the personnel system in the public sector, and topics in administration, staffing, and productivity are explored. Public sector processes for recruitment, selection, development, motivation, evaluation, compensation, and discipline are given particular attention.

## **POLS 326 Regional Planning**

Introduces students to planning at the city level and offers a unique opportunity to apply directly what has been learned in the classroom. Students are exposed to the major ideas behind regional planning, including land use planning, MPDUs and regional coalitions.



# **POLS 328 Applied Policy: Occupational Safety and Health**

Provides students with the tools necessary to develop and design an effective occupational and safety health program in a wide variety of industries to mitigate risk and protect workers. The course is designed to give students training in policy development and program implementation which can both be used in a multitude of settings and serve as a transferable skill. Prerequisite: POLS 121 or permission of instructor.

# **POLS 331 Politics of Western Europe**

Studies such states as the United Kingdom, France, Germany, and others in depth, with comparisons being drawn among them. The emphasis is on the distribution of power and the organization for governing in parliamentary, presidential, and related democracies.

# **POLS 334 Ethnic Conflict and Nationalism**

Examines the roles of ethnicity and national identity in constructing the modern world, ethnic conflicts, racism, and separatism through discussion of theoretical articles and real-world cases. The course includes the study of waves of national and current ethnic conflicts.

# **POLS 336 Russian Politics**

Introduces students to issues in the Russian Federation of democratization, nation-building, and building capitalism from the ground up. The course recaps Russian and Soviet history before discussing some of the issues the country faces. These issues include territorial disintegration, the prospect of ethnic conflicts in the Caucasus and elsewhere, corruption, the domestic uses of foreign policy, and other issues of contemporary significance.

# **POLS 341 Theory & Methods in Political Science**

Surveys the development and basis of Political Science as a scientific academic discipline. An analysis of empirical theory and methodology as applied to the study of political behavior is undertaken. Students develop and practice skills in understanding and using qualitative and quantitative methodologies to describe, explain, and predict political phenomena.

## **POLS 342 Ethical Issues in Politics**

Examines the ethical aspects of some of the difficult political issues facing the United States and the world community, including such topics as the influence of money on political systems, the role of ethics in addressing domestic social welfare issues, the moral aspects of humanitarian and economic development issues, and ethical concerns relating to issues of war and peace.

## **POLS 343 Social and Political Philosophy**

Considers theories of the nature and legitimacy of the state and its laws. It also deals with topics, such as the rights and responsibilities of citizens, ethics in political decision-making, economic justice, punishment, race and gender oppression, political and cultural identity, and the value and meaning of democracy. Cross listed as PHIL 343, SOCI 335.

## **POLS 352 American Foreign Policy**

Examines the actors, institutions, and the impact of foreign policy structures and behavior on the US and the world. Issue areas given significant attention include the history of AFP, issues of consensus and conflict, pre- and post-9/11 dynamics, inside and outside actors/influences, the impact of politics on policy, national and homeland security issues relating to foreign relations, and both current and future challenges of American foreign policy.

## **POLS 354 Model United Nations**

Introduces students to the United Nations as an institution, as well as to many of the problems and challenges faced by the international community that the UN addresses. As part of the course, students attend an off-campus Model United Nations simulation, where they take on the role of a particular country and interact with students from other universities representing different countries. A significant portion of the course content is specific to preparation for this off-campus Model UN simulation. Due to this additional practicum experience, there are additional costs associated with this course.

## **POLS 355 Model United Nations Practicum**

Allows students to gain college credit for attending the Model United Nations conference. Students must educate themselves about the country they are representing and prepare independently to attend the conference. Students in the Model UN

Practicum must periodically liaise with their peers taking the course for the first time, on a to-be-announced schedule. Due to the nature of this experience, there are additional costs associated with this course. Prerequisite: POLS 354.

## **POLS 356 War, Peace, and Security**

Examines the nature of international security, including issues related to war and other forms of military and political conflict. Relevant institutions and actors are discussed, as are prominent challenges to peace and security in the international environment. The ethical implications of these challenges are examined, as are the prospects and possibilities for peace and security on the global stage.

## **POLS 357 International Political Economy**

Provides students with an understanding of the linkages between politics, markets, and society. Mercantilism, economic liberalism, and structuralism are covered, with each serving as a tool to help explain political, economic, and social behavior. Students are introduced to analysis on how different arrangements benefit different actors from the global, interstate, state/societal, and individual level.

## **POLS 358 Russian Foreign Policy**

Exposes students to the intricacies of formulating, constructing, and executing Russian Foreign Policy, as well as a consideration of the means by which Moscow seeks to achieve its goals on the international stage. Students consider the different sources and challenges of Russian Foreign Policy coming from Russia's unique geographical, historical, and ideational position.

## **POLS 362 International Sport and Politics**

Introduces students to connections and influences between politics and international sport (sporting mega events), including state motives and aims in hosting such mega events. The course begins by considering sports in general before looking at international sport, such as the Olympics and the World Cup.

## **POLS 370 Topics in Political Science**

Provides students with a semester-long study of a topic of interest under the direction of a departmental faculty member. Topical offerings provide an opportunity for intensive study in a field of interest to the student.

## **POLS 372 Politics in Film**

Uses popular films to introduce important political issues and processes to a broad set of students. Movies are complemented with readings that center discussion on the political issues that emerge from the films.

## **POLS 380 Topics: Off-Campus Study**

Provides students with an off-campus structured, faculty-led learning experience in the U.S. or abroad. Prerequisite: Instructor permission required.

## **POLS 387 Internship in Political Science**

Involves a supervised work-study experience in a political structure or environment outside the University. Supervised jointly from within the respective political entity and the political science department, the internship may take place in a private organization or business if it deals directly with the organization's involvement with political or governmental affairs.

## **POLS 481 Student/Faculty Collaborative Research in Political Science**

Students work one-to-one with a faculty member on a professional project. The final project/paper will list both the faculty member and the student as co-authors. Students are expected to present their findings with the faculty member at a professional conference. Prerequisite: Instructor permission required.

## **POLS 491 Senior Seminar in Political Science**

Involves an intensive research project reflecting the student's interest in a political topic and skills learned in studying political science. Each student works individually with a professor in completing the capstone project and also meets regularly within a group of all political science senior seminar students. Prerequisite: Senior standing.

# **PSYC 101 Introduction to Psychology**

Presents basic concepts in the scientific study of behavior including motivation, sensation and perception, learning, cognition, development, social, and personality.

# **PSYC 110 Exploring Psychological Science**

Deals with selected topics offered in a seminar format. Prerequisite or co-requisite: PSYC 101, freshman or sophomore standing, and permission of instructor.

# **PSYC 151 General Experimental Psychology**

Emphasizes fundamental concepts of research. Students conduct classic psychological experiments in perception, cognition, physiological, learning, and social psychology and write lab reports in APA (American Psychological Association) style. Includes a lab. Prerequisite: PSYC 101.

# **PSYC 205 Child Development**

Presents a systematic study of physical, social, cognitive, and personality development from conception through the elementary school years. Emphasis is on learning different theoretical perspectives. Students are encouraged to complete the one credit course, 220: Preschool Practicum simultaneously. Prerequisite: PSYC 101.

# **PSYC 208 Lifespan Development**

Is an overview of psychological theories and empirical research used in the study of human development to describe, understand, and explain development from conception to death. Emphasis is placed upon normal growth and milestones achieved in the physical, cognitive, social and emotional systems.

# **PSYC 220 Preschool Practicum**

Provides supervised experience in the application of psychological principles. Students work in the department's Center for Child Development four hours per week and participate in a variety of in-service training programs. Graded S/U.

## **PSYC 222 General Practicum**

Provides supervised experience in the application of psychological principles. Students work in one of the department laboratories, an outside laboratory, a counseling center, a mental health clinic, or other human service agency. The course requires four hours of practical experience per week (or 40 clock hours, depending on the placement) and participation in a variety of in-service training programs. Graded S/U. Prerequisite: Permission of instructor.

## **PSYC 232 Behavioral Statistics**

Deals with experimental design, statistical analysis, and the mathematics of probability as they are related to the scientific analysis of behavior.

## **PSYC 281 Physiological Psychology**

Studies the basic principles of brain organization and function. Emphasis is placed on understanding the relationships between brain activity and behavior. Prerequisite: PSYC 101.

## **PSYC 290 Theories of Personality**

Examines contemporary models used to describe, explain and predict people's behavior, thoughts, and emotions. Prerequisite: PSYC 101.

## **PSYC 304 Learning and Memory**

Introduces the student to classical and modern concepts of learning and memory across all levels at which learning and memory is studied, in both animals and humans. Topics include the role of the nervous system, behavioral tests of learning and memory, and clinical disorders that affect learning and memory. Prerequisite: PSYC 101.

## **PSYC 305 Cognitive Psychology**

Investigates mental processes related to the areas of perception, organization, retention, and subsequent use of stimulus information. Specifically, readings address the issues of perception, memory, attention, imagery, thinking, and problem solving. Includes a lab with experiments on computers. Prerequisites: PSYC 101, 151, 232.

## **PSYC 308 Adolescence and Youth**

Examines the biological, social, personality, and cognitive changes that occur during adolescence and young adulthood. Emphasis is placed on research that is concerned with current challenges adolescents and young adults face. Prerequisite: PSYC 101.

## **PSYC 309 Adulthood and Aging**

Examines the biological, social, personality, and cognitive changes that occur during adulthood and later years of the human life span. The continuation of development throughout the life span from middle adulthood until death is emphasized. The impact of earlier stages and choices in the life span are discussed as well. Prerequisite: PSYC 101.

## **PSYC 321 Social Psychology**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships. Prerequisite: PSYC 101 and one additional psychology course. Cross listed as SOCI 321.

## **PSYC 351 Advanced Experimental Psychology**

Gives the student experience in applying the scientific method to design and methodological issues in psychology. Emphasis is placed on reading and critiquing research articles and conducting an independent research project. Includes a lab. Prerequisites: PSYC 151, 232, junior standing.

## **PSYC 359 Psychological Testing**

Provides the knowledge and skills necessary to create a psychological test and evaluate its effectiveness. Test construction, reliability, and validity are explored. Popular measures of personality, intelligence, and attitudes are demonstrated and examined. Includes a lab. Prerequisites: PSYC 101, 232.

## **PSYC 361 Sensation and Perception**

Surveys the relationship between the various sensory modalities and behavior. The emphasis is on the interaction between such variables as basic sensory neurophysiology, environmental factors, personal experiences, and the ultimate process of perception. Includes a lab. Prerequisites: PSYC 101, 151.

## **PSYC 363 Abnormal Psychology**

Presents the behavioral, cognitive, and emotional disorders confronted by mental health professionals. Students learn to apply current methods of assessing maladaptive behavior and to use psychological theories to explain psychological problems. Prerequisite: PSYC 101.

## **PSYC 371 Psychopharmacology**

Begins with an overview of the nervous system and neurotransmitters. The course then focuses on the various classes of legal and illegal drugs by studying their effects on the nervous system and the behavior of animals and humans. Includes a lab. Prerequisites: PSYC 101, 151.

## **PSYC 390 Counseling Theory and Process**

Is designed to broaden the student's knowledge and understanding of counseling through lectures, readings, and an experiential lab component. The student learns the basic theoretical perspectives of counseling, the fundamental process of counseling, and the relationship between theory and process. The lab component engages the student in rudimentary skill building in the area of counseling. The theories and procedures presented in the course can be adapted to and used in a wide variety of settings, including social work, education, and traditional psychological service settings. Prerequisite: PSYC 101.

## **PSYC 397 Mental Health Internship**



Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor with placement in a local human services agency or hospital. Prerequisite: Permission of instructor.

## **PSYC 398 Research Internship**

Provides opportunity to engage in independent research under the direction of a department faculty member. Students are required to make a final professional report of their findings. Prerequisite: Permission of instructor.

## **PSYC 399 Developmental/Educational Internship**

Requires 80 hours of practical experience and a written report, and is typically completed during the junior year. The internship experience is directed by a departmental advisor and an on-site supervisor. Placements include human services agencies and schools, or the department's Center for Child Development. Prerequisite: Permission of instructor.

## **PSYC 406 Psychology of Law**

Examines the relationship between the study of psychology and the legal system including the role of the psychologist as an expert witness, the psychological research on eyewitness testimony, scientific jury selection, and jury decision making. Prerequisite: PSYC 101.

## **PSYC 409 Topics in Psychology**

Deals with selected topical courses offered in a seminar format.

## **PSYC 419 Readings in Psychology**

1-3 depending on the semester offering. Offers the student an opportunity to read extensively and discuss with department faculty topics not offered as part of the existing psychology curriculum. Prerequisite: Junior or senior standing and permission of the instructor; prerequisites may vary for different classes.

## **PSYC 430 Psychology of Injury**

Is designed to explore theories associated with the psychological ramifications, reactions, and adjustments required following a sport injury. Students will explore the various assessments and intervention opportunities available for coaches, athletic trainers, and sport psychology professionals. Prerequisite: PSYC 101.

## **PSYC 493 Comprehensive Review**

Is a weekly review of current research and student projects. Students write and present research proposals that serve as the basis for their senior studies project. Required of all senior psychology majors, the course is completed when the student submits an acceptable literature review with a research proposal and passes a standardized, comprehensive examination in psychology. Prerequisite: PSYC 351; senior standing in psychology.

## **PSYC 495 Senior Studies**

Continues a weekly review of current research and student projects in addition to an independent study program that provides opportunities to practice inquiry and discovery while intensively researching some fundamental issue or problem in behavior. The individualized studies culminate in an empirical investigation, a written report, a poster, and an oral presentation to the department. The course is an extension of the Comprehensive Review projects which are continually presented during weekly review sessions. Prerequisite: Senior standing in psychology and completion of the research proposal for PSYC 493.

## **PBRL 201 Introduction to Public Relations**

Examines contemporary public relations practice, values, and principles; explores professional ethics, strategy, planning, and tactics of effective public relations practice; and surveys the goals and practices of major settings for public relations.

## **PBRL 315 Case Studies and Campaigns**

Examines contemporary public relations case studies to test theories, illustrate challenges, and observe tactics and strategies. Explores the creation and implementation of public relations campaigns through applied skills in research, analysis, and planning.

## **PBRL 399 Internship**

Involves a supervised experience in the student's major. The program is closely supervised by faculty members and an on-site director. Credit counts as 3 of the 16 internship hours which may be applied to graduation requirements. Graded S/U. Prerequisite: Junior standing, 2.5 GPA and instructor permission. Cross listed as DMD 399, JOURN 399, MEDIA 399.

## **PBRL 495 Seminar**

Exposes students to an intensive study in a selected area of emphasis. The first four weeks are devoted to the development of a project prospectus. The remainder of the semester is given to independent study under the guidance of an appropriate instructor. Prerequisite: COMM 360.

## **RELG 150 Biblical Theology**

Surveys major biblical writings to discern the patterns they present about God, God's acts and God's purposes. Special attention is given to ways of reading the Bible that give priority to its literary and cultural contexts.

## **RELG 153 World Religions**

Studies the principal doctrines, historical development, and contemporary practice of the major traditions.

## **RELG 220 History of Christianity: Ancient and Medieval**

Studies Christianity from its origins to the Reformation. Key people, events, ideas, and the relationship of the church to the world in which it existed are examined.

## **RELG 226 History of Christianity: Reformation and Modern**

Studies Christianity from the beginning of the Reformation in the sixteenth century to the present. Key people, events, ideas, and the relationship of the church to the world in which it existed are examined.

## **RELG 251 The World of Islam**

Studies the central doctrines, historical development, and current practice of Islam.

## **RELG 252 The Judeo-Christian Tradition**

Surveys in historical context the western religions of Judaism and Christianity. Special attention is given to modern manifestations of these two great religious traditions.

## **RELG 253 Biblical Ethics**

Explores the ethical systems found in the Bible.

## **RELG 260 Introduction to Christian Theology**

Studies the central doctrines of Christianity as they have developed through the history of the church. Key points of discussion and major thinkers are covered, and students are led to identify and articulate their stance with regard to each doctrine. The contemporary theological scene is introduced as well.

## **RELG 261 Women and the Bible**

Explores the often ambivalent relationship between women and the Bible. It examines what the Bible says about women, how women are portrayed in biblical texts, and how women readers have broadened our understanding of the Bible.

## **RELG 290 Topics in Religious Understanding**

Examines a particular topic relevant to religious understanding, chosen by the instructor, that will enable students to probe the important ways in which religion impacts their lives and the lives of others.

## **RELG 301 Old Testament Literature**

Studies the library of books bequeathed to us in words from ancient Israel. Through literary and historical criticism the message of the Law, the Prophets, and the Writings is discovered in the world of biblical literature.

## **RELG 302 Biblical Backgrounds**

Studies the physical, cultural, and literary remains that help us understand and interpret Old and New Testament literature.

## **RELG 303 New Testament Literature**

Studies the library of books bequeathed to us in words from the early Christian church. Through literary and historical criticism the message of the Gospels, the Acts of the Apostles, the Letters, and the Revelation is discovered in the world of biblical literature.

## **RELG 304 Jesus in the New Testament**

Studies the person and work of Jesus as presented in the entire New Testament.

## **RELG 342 Religions and Philosophies of Asia**

Deals with the different forms of religious belief around the world—especially Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Islam. Cross listed as PHIL 342.

## **RELG 352 Religion and Film**

Examines how religious perspective influences the way film is made and understood. This course engages in the cross-cultural examination of religions and cinema. Offered in alternate years.

## **RELG 353 Religion and Gender**

Explores cross-cultural religious communities by focusing on the interplay between religion and gender. Special consideration is given to the role of myths and symbols in determining power and gender relations.

## **RELG 356 Death and Dying in the World Religions**

Studies the ways various religions deal with death and dying. Attention is paid to beliefs and practices of contemporary religious practitioners.

## **RELG 360 Topics in Religion**

Allows students to explore special areas of religious study in more depth than regular course offerings can provide.

## **RELG 385 Teaching Christian Education**

Studies the aims, curriculum, methods, and materials of Christian education. Prerequisites: RELG 301 or 303 or 304, EDUC 112.

## **RELG 393 Global Issues and Values**

Surveys selected natural issues (such as energy, population, and food supply), political issues (such as human rights, refugees, peace) and particular problems (such as those concerning the Palestinians, South Africa, multi-national corporations)—asking what values are operative and what values are required for responsible citizenship in the global village.

## **RELG 395 World Mythology**

Focuses on myths and mythic categories important to religions around the world. This course is a cross-cultural examination of contemporary and classical myths from diverse cultures.

## **RELG 397 Internship in Christian Education**

Provides the opportunity to work under supervision in a church, school, or other agency during one semester or in the summer. Open to juniors and seniors. Prerequisites: Educ 110 and two courses in religion.

## **RELG 398 Internship in Religion**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internship covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

## **RELG 399 Continuing Internship in Religion**

Provides a supervised experience in which a student works in a multifaith context, a religious organization or non-profit agency, or a chaplaincy context (correctional institute, military, hospital or higher education). The aim is to allow students to use religious knowledge in paid vocational contexts. The course number sequence allows for internship covering up to two semesters, consecutive or non-consecutive. Must be approved and supervised by instructor with relevant content background to the internship. Students must have taken appropriate courses relevant to the internship.

## **RELG 401 Directed Readings in Religion**

Provides the opportunity for intensive reading in areas of religion selected in consultation with the department.

## **RELG 494 Senior Studies in Christian Education**

Provides the opportunity for study and writing in a major area of religious education.

## **RELG 495 Senior Seminar Research in Religion**

Involves research necessary for the completion of the senior seminar. Such preliminary research includes extensive reading, compilation of a bibliography, composition of a thesis statement, and the creation of an initial outline. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department.

## **RELG 496 Senior Seminar**

Involves writing an extensive research paper on a focused topic. Students are asked to demonstrate their progress in regular meetings with the instructor and/or department. This course culminates in an oral defense of the project. Prerequisite: RELG 495.

## **SOCI 101 The Sociological Perspective**

Provides an introduction to the traditions, concepts, and methods of social inquiry. Students examine such topics as culture, social interaction, deviance, inequality, and social change.

## **SOCI 120 Perspectives in Multicultural Leadership**

Provides an opportunity for students to examine leaders in the community and identify their own strengths to assist others. Through service-oriented action, students come to a greater understanding of being socially responsible in a multicultural setting. Prerequisite: Completion of LEAP Workshop or permission of instructor.

## **SOCI 216 Social Problems in Contemporary America**

Examines the origins and consequences of some of the major social problems and dilemmas facing Americans today. Behavior related to problems such as race, class and gender, chemical dependency, sexual variation, crime, and the environmental crisis are studied from the sociological perspective.

## **SOCI 270 American Corrections**

Uses a sociological perspective to examine the history, institutions, and practice of American corrections; specifically, issues of incarceration, probation, prisoner release, and criminal justice are covered. Prerequisite: SOCI 101. Cross listed as CRMJ 270.

## **SOCI 301 American Society: Class and Culture**

Surveys some of the major theories and scholarly studies on social stratification, national power structure, and corporate culture. Prerequisite: SOCI 101 or 216.

## **SOCI 320 Racial and Cultural Minorities**

Examines the way in which certain groups in society are defined as minorities and subjected to discrimination. The social-psychological, historical, cultural, and sociological sources of prejudice and discrimination are covered as well as the dynamics of change in relations between dominant and minority groups. Prerequisite: SOCI 101.

## **SOCI 321 Social Psychology**

Examines psychological principles and concepts involved in causal attribution, social cognition, attitude formation and change, social influence, and interpersonal relationships. Prerequisite: PSYC 101 and one additional psychology course. Cross listed as



PSYC 321.

## **SOCI 330 Human Sexuality**

Explores the social influences that impact concepts of sex, sexuality, reproduction and gender. Emphasis is placed on historical, political, global and technological issues. The course also includes fundamental instruction in reproductive anatomy and physiology. Prerequisite: SOCI 101.

## **SOCI 335 Social and Political Philosophy**

Considers theories of the nature and legitimacy of the state and its laws, the rights and responsibilities of citizens and groups, ethics in political decision-making economic justice, punishment, race and gender oppression, the nature and value of political and cultural identity, and the value and meaning of democracy. Cross listed as PHIL 343, POLS 343.

## **SOCI 342 Gender, Film, and Society**

Applies a sociological lens to gendered aspects of film and their societal correlates. Prerequisite: SOCI 101.

## **SOCI 345 Sociology of the Family**

Examines the various forms and functions of the family in the United States as well as other cultures. The developmental cycle of the family is followed through mate-selection, marriage, parenthood, and old age. Family change is also analyzed by covering such topics as industrialization and sex roles. Prerequisite: SOCI 101.

## **SOCI 350 Social Change in an International Perspective**

Focuses on the international aspects of social change such as the gap between the rich and poor countries, social movements in Third World countries, and the theoretical perspectives that illuminate and explain such change. Case studies are drawn from current events. Prerequisite: SOCI 101 or ANTH 201.

## **SOCI 352 Selected Topics in Sociology**

Presents an opportunity to read and discuss in depth topics not covered or only partially covered in regular courses.

Prerequisite: SOCI 101 or ANTH 201.

## **SOCI 360 Social Research Methods**

Introduces the student to the research process through the analysis of research designs and the various methods of collecting data and of drawing inferences from that data. Emphasis is placed on practical experience in developing research skills.

Prerequisite: SOCI 101 or ANTH 201.

## **SOCI 369 Peacemaking**

Takes a multidisciplinary approach towards peacemaking. This course moves back and forth between personal applications in one's daily life on the one hand and more academic applications of the social sciences (sociology, anthropology, history, psychology and criminal justice) and humanities on the other. Emphasis on writing and class discussion.

## **SOCI 370 Environmental Sociology**

Constructs a framework for the study of how cultures and societies influence and in turn are shaped by the natural environment. Prerequisite: SOCI 101.

## **SOCI 380 Visual Sociology**

Explores documentary filmmaking as a method of sociological research. Documentary filmmaking is of increasing interest to sociologists as an effective form of public sociology, activist sociology and sociology as a form of service learning that involves sociologists and students in community issues.

## **SOCI 418 Deviance and Crime**

Surveys trends and theories of criminal behavior and crime control. Major emphasis is on the relationship between social and cultural patterns and deviant behavior. Prerequisite: SOCI 101; 216 recommended.

## **SOCI 422 Sociological Theory**

Offers a descriptive and analytical survey of intellectual traditions and trends in the discipline of sociology from its origin to the present. Prerequisite: SOCI 101.

## **SOCI 490 Round Table**

Encourages free and open conversation between students and faculty on sociological issues and applications. Graded S/U. Prerequisite: 15 hours in sociology/anthropology.

## **SOCI 495 Senior Studies**

Provides an opportunity for the student to engage in the groundwork for guided independent study on an approved topic. Prerequisite: SOCI 101 or Anth 201.

## **SOCI 496 Senior Studies**

Enables the student to complete a guided independent study on an approved topic. Prerequisite: SOCI 495.

## **SPAN 111 Beginning Spanish I**

Is designed to develop listening, speaking, writing, and reading skills in Spanish as well as cultural competency in the Hispanic world. This course is intended for students with no prior knowledge of Spanish or those who have had two years or less of high school Spanish.

## **SPAN 112 Beginning Spanish II**

Is designed to enhance and further develop listening, speaking, writing, and reading skills in Spanish as well as cultural competency in the Hispanic world. Students meet once a week with a language assistant from Latin America or Spain. Prerequisite: SPAN 111 or 2-3 years of high school Spanish.

## **SPAN 123 Explorations in Hispanic Literature in English Translation**

Is taught entirely in English. The course includes a variety of literary genres from a cross-section of Hispanic countries. Emphasis is on significant literary works ranging from the earliest to the most modern. Prerequisite: ENGL 121.

## **SPAN 211 Intermediate Spanish I**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the Hispanic world. Students explore the diversity of practices, products, and perspectives found within contemporary Spanish-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Latin America or Spain. Prerequisite: SPAN 112 or its equivalent.

## **SPAN 212 Intermediate Spanish II**

Continue the development of interpersonal, interpretive, and presentational skills through a variety of texts (journalistic, short story, poetry, advertising, film, etc.) that reflect the cultural, social, and linguistic diversity of the Hispanic world. Students explore the diversity of practices, products, and perspectives found within contemporary Spanish-speaking societies. Topics may include gender, multiculturalism, ethnicity, family, religion, literature, art, music, gastronomy, education, economics, and politics. Students meet once a week with a language assistant from Latin America or Spain. Prerequisite: SPAN 211 or its equivalent.

## **SPAN 240 Business Spanish**

Introduces the language and culture of business in a Hispanic context. Topics include marketing, banking, accounting, trade, business communication, and the role of government. Prerequisite: SPAN 212, its equivalent, or permission of the instructor.

## **SPAN 251 Spanish Table**

Is a weekly meeting designed to increase or maintain fluency and to expand vocabulary. The course may be taken up to three times for credit but applied to the major or minor only twice. Prerequisite: SPAN 111 or its equivalent.

## **SPAN 290 Spanish for Criminal Justice**

Is a Spanish language course offered to students in criminal justice and related fields. This course is intended to expand speaking and listening skills related to criminal justice as well as to promote a deeper understanding of Spanish-speaking communities in the United States from a socio-cultural point of view. Prerequisite: SPAN 212, its equivalent or permission of the instructor. Cross listed as CRMJ 290.

## **SPAN 291 Advanced Spanish Table**

Is a weekly meeting designed to expand vocabulary and increase the speaking proficiency of students at or above the advanced-intermediate level. Maximum number of Spanish Table classes (251, 291, or a combination) that may be taken for credit: three. Maximum number of Spanish Table classes that can be applied to the 33 hours required for the major: two (can consist of two 251s; two 291s, or one of each). Prerequisite: SPAN 212, its equivalent or permission of instructor.

## **SPAN 301 Advanced Spanish: Conversation and Pronunciation**

Emphasizes listening and speaking skills through laboratory practice, class discussion, and other activities and includes a selected grammar review. Prerequisite: SPAN 212, its equivalent, or permission of the instructor.

## **SPAN 302 Advanced Spanish: Grammar and Composition**

Combines a writing course with a review of Spanish grammar. Given different contracts, the course may be taken twice for credit. Prerequisite: SPAN 212, its equivalent, or permission of instructor.

## **SPAN 303 Panoramas of Hispanic Literature I**

Introduces major literary movements, principal writers, and outstanding works of Spanish peninsular literature. Prerequisite: SPAN 302 or permission of instructor.

## **SPAN 304 Panoramas of Hispanic Literature II**

Introduces the major literary movements, principal writers and outstanding works of Latin American and literatures by Hispanics in the United States. Prerequisite: SPAN 302 or permission of instructor.

## **SPAN 310 Study Abroad Seminar**

Satisfies the study abroad requirement for the major. Students attend preparatory meetings and participate in assignments designed to maximize the value of the required study abroad experience. Before departure, students engage in readings and discussions. After study abroad, students submit a reflection paper and/or assigned written work related to their formal and informal learning gained during the stay.

## **SPAN 325 Hispanic Civilization**

Explores the geographic, ethnic, and cultural diversity of the Spanish-speaking world including the Hispanic heritage of the United States. The course may be repeated for credit as the subject matter changes. Prerequisite: SPAN 212, its equivalent, or permission of instructor.

## **SPAN 350 Hispanic Cinema in English**

Covers Hispanic Cinema in all of the Spanish-speaking regions: Spain, Latin America, and Hispanics in the U.S. The history of Hispanic cinema is first studied through the development of Spain's major directors from BuZuel to Almodóvar. This portion of the course establishes an understanding of cinematic techniques and narrative structure which will then be applied to films from a variety of Latin American countries and Hispanic communities. Common themes, such as socio-political structures, repression, gender, and artistic expression, unify and direct the study of cultural contents. Taught in English. Prerequisite: Engl 121.

## **SPAN 360 Topics in Hispanic Language and Culture**

Provides an opportunity to study a linguistic, literary, or cultural topic related to the Spanish-speaking world. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis. The course may be repeated for credit as subject matter changes. Prerequisite: Sophomore standing and permission of instructor.

## **SPAN 431 Hispanic Culture Seminar**

Provides the advanced student an opportunity to study in depth an aspect of Hispanic culture, which may include: literature, art, business culture, or another approved topic. The course serves as a capstone for the Spanish major. Prerequisite: Two Spanish courses numbered above SPAN 302 (one of which must be 303 or 304) or permission of instructor.

## **SPST 105 Introduction to Sports Analytics**

Is designed to provide the foundations of statistics through the study of sports. Topics include both descriptive and inferential statistics and probability theory. Emphasis is placed on critical thinking in the use of statistics to make decisions.

## **SPST 221 Athletics Communication**

Introduces the field of athletic communications and the role it plays in intercollegiate and professional athletics. The course deals with the workings and process behind executing proper techniques of sports information and media relations.

## **SPST 240 Sports Media**

Exposes students to the craft of sports journalism, from print to online to social media to broadcast. Students will learn to develop sources, understand different forms of stories, how to write, report and analyze sports.

## **SPST 321 Athletics Communication Technology**

Focuses on developing the skills needed to manage NCAA events using the latest communication innovations available for collegiate athletics. Prerequisite: SPST 221

## **SPST 341 Sports Planning and Promotion**

Focuses on special event planning, processes, and management practices. Students develop the skills necessary to manage all aspects of a sporting or special event, including planning and logistics, scheduling and marketing, and risk management and security.

## **SPST 344 Legal Issues in Sport**

Provides an introduction to the major legal factors influencing sports and athletics, including gender and Title IX; safety, risk management, and liability; children, special populations, and ADA compliance, and employment issues.

## **SPST 401 Athletics Communication Practicum**

Provides hands-on experience in the athletics communication field. Working in professional settings, students hone the skills they learned in their preparatory classes. Prerequisite: Permission of Instructor.

## **SPST 402 Sport Administration Practicum**

Provides hands-on experience in the sport administration field. Working in professional settings, students hone the skills they learned in their preparatory classes. Prerequisite: Permission of Instructor.

## **SPST 403 Coaching Practicum**

Provides hands-on experience in the sports coaching field. Working in professional settings, students hone the skills they learned in their preparatory classes. Prerequisite: Permission of Instructor.

## **SPST 441 Sports Management and Marketing**

Involves the study of sports business from a managerial and marketing perspective. Studies include the concepts, tactics, and issues across two main thrusts in sports business: (1) the managing and marketing of goods and services directly to consumers of sports, and (2) the managing and marketing of other consumers and industrial goods and services through the use of sport promotion. Prerequisites: BUSI 221, 241.

## **SPST 495 Seminar in Sport and Performance Studies**

Is the capstone course for students completing any of the sport and performance majors. The students engage in an in-depth research study or practicum that links their general course work, their specialized training and their clinical experience. Topics are selected in consultation with the supervising faculty member. Prerequisite: Permission of the department chair.

## **THEA 103 Projects in Theatre**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism. Registration is by permission of production directors. Restrictions: maximum of two hours per year; maximum of four



hours toward major or minor. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 151 Introduction to Theatre**

Surveys theatre history and the arts of acting, directing, designing, playwriting, and criticism for a greater understanding of theatre in the world.

## **THEA 203 Projects in Theatre**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism. Registration is by permission of production directors. Restrictions: maximum of two hours per year; maximum of four hours toward major or minor. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 205 Portfolio Review**

Assists students in creating, presenting and discussing a professional, digital technical portfolio as preparation for professional technical interviews. May be repeated once for credit.

## **THEA 223 Auditioning**

Examines audition technique for monologues, cold readings, improvisation, and vocal performance. Students prepare headshots and resumes, develop a repertoire of monologues and songs, and audition for professional employment. May be repeated once for credit.

## **THEA 230 Stage Management**

An overview of the duties and work of a stage manager in the theatrical process. Students will learn to create the tools utilized by a working stage manager and gain an understanding of the role of a stage manager in the theatrical process. This course is recommended for a student interested in management, directing, or technical theatre.

## **THEA 245 Technical Production**

Involves students through lecture and laboratory work in the technical process of creating theatre. Topics include: reading working drawings and interpreting design, basic carpentry, painting, props technology, sewing, elementary lighting technology, general problem solving, and the safe and proper use of all equipment needed to complete production tasks. Participation in theatre productions is required.

## **THEA 265 Design I: Explorations in Theatre Design**

An introductory exploration of the role of design in the theatrical process. The class will focus on interpreting theatrical works through visual research, storytelling, and communication, as well as the initial tools used in each area of design to create and explain these stories. Students will be given hands on experience in all areas of design and will be given the tools needed to choose an area of focus for a final project in Scenic, Costume, or Lighting Design. At the end of the semester they will complete a basic design packet and portfolio in their area of choice.

## **THEA 275 Acting I**

Examines acting through theories and exercises. Scene study is designed to enable students to create a role for the stage. This is a process-oriented course, which provides the student with a foundation of script analysis and creative skill.

## **THEA 285 Dance for Musical Theatre**

Explores various dance genres appropriate for application in musical theatre. The student studies the historic application of the genre and choreographs and executes/performs music theatre dance styles. The course examines different sets of styles during a three-semester rotation. The course may be repeated with a maximum of four hours counting toward a music theatre minor or theatre major. A maximum of six hours may be counted toward graduation.

## **THEA 303 Projects in Theatre**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism. Registration is by permission of production directors. Restrictions: maximum of two hours per year; maximum of four hours toward major or minor. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 314 Acting II**

Continues to explore acting through theories, exercises, and scene study. Students examine a variety of acting styles, approaches, and genres. Prerequisite: THEA 275.

## **THEA 316 Improvisation**

Examines the skills and techniques used in improvisational theatre performance. Students build acting skills through exercises, solo work, as well as ensemble activity.

## **THEA 350 A History of Film**

Surveys the history and nature of film with emphasis upon the American contribution to film art, genres, acting, directing, and cinematography.

## **THEA 351 World Theatre History**

Focuses on the historical development of theatrical production. Examines dramatic tradition from Greek origins, observes its evolution through history, and traces the progress of theatrical styles throughout the world. Primary source documents highlight the contributions of major critics and theorists of theatrical tradition.

## **THEA 352 Dramatic Literature**

Closely examines representative dramatic literary texts. Particular consideration is given to the application of literature on stages and examining plays for a better understanding of our vast theatrical and cultural heritage.

## **THEA 356 Playwriting**

Introduces the basic techniques of structure and dialogue in writing a play. Students experience writing, reading, and revising performance work.

## **THEA 360 American Musical Theatre: Structure and History**

An exploration of the development and history of the American musical and its impact on theatre in the United States and abroad. Students will study the evolution of the art-form in order to understand the structure of musical script, and will be given the opportunity to start developing their own musical.

## **THEA 365 Design II: Explorations in Theatre Design**

An intermediate study in theatre design. Students will choose from Scenic, Costume, or Lighting/Sound Design and will progress in their studies from Design I. Topics include but are not limited to advanced visual research, period styles, portfolio creation, sketching and rendering, as well as design area-specific tools. Prerequisite: THEA 265 or permission of the instructor.

## **THEA 375 Directing I**

Examines the art of directing through theories and procedures of production, including preliminary applied playscript analysis. Offers introductory experience through the application of the tools of picturization, composition, and movement in the production of several in-class scenes. Prerequisites: THEA 245, 275.

## **THEA 381 Selected Studies in Theatre**

Introduces a variety of theatre genres. May be repeated twice for credit as content changes.

## **THEA 383 Professional Studies in Theatre: Shakespeare on Stage; Professional Stage and Study; Summer Theatre**

Provides field experiences between semesters and during the summer. Students may take one, two, or all of the courses.

## **THEA 395 Special Topics in Theatre**

Focuses upon a variety of subjects in theatre. Topics such as theatre management may be offered. May be repeated once for credit as content changes.

## **THEA 403 Projects in Theatre**

Provides laboratory or workshop experiences in technical theatre, design, acting, directing, theatre management history, or criticism. Registration is by permission of production directors. Restrictions: maximum of two hours per year; maximum of four hours toward major or minor. Graded S/U. Exception: concurrent enrollment in THEA 403 and THEA 496 requires a letter grade.

## **THEA 414 Directing II**

Rigorously studies theories and applications of directing. Students undertake sustained collaborative projects, experience the process of developing personal style, and explore varied techniques and diverse styles of production. Prerequisite: THEA 375.

## **THEA 465 Design III: Advanced Studies in Theatre Design**

Building on the studies of Design I and II, Design III is for the advanced theatre student. Students will continue studies in research and storytelling, as well as studio work, creating the tools needed to communicate a design in their area of focus. The goal of this course is to prepare a student to assist on a departmental production or design a small production when available. Topics include portfolio building, advanced research, technical theatre procedure and elements, sketching and rendering, as well as area-specific topics. Prerequisite: THEA 245, 365 or permission of the instructor.

## **THEA 494 Methods of Teaching Drama/Theatre**

Introduces a candidate for teacher certification in drama/theatre to classroom methods and materials necessary for teaching the theatre discipline.

## **THEA 495 Independent Study in Research**

Intensively examines a selected theatre area: design, acting/directing, or history/criticism. Students develop a project prospectus in the first four weeks and spend the remainder of the semester in an independent study guided by a faculty member. May be repeated once for credit.

## **THEA 496 Independent Study in Performance**

Provides students who have developed approved projects in THEA 495 with an intensive period of production and performance in the areas of design, acting, and directing. Prerequisite: THEA 495 and departmental approval.

## **WRLD 200 Cross-Cultural Communication**

Examines major factors affecting communication across cultures, such as the varying concepts of time, space, and the individual's place in society. The course explores how those concepts are manifested in areas of language and social interaction, including speech acts; contrastive rhetoric; decision-making and conflict resolution. The phenomena of cultural adjustment, culture shock, and re-entry are also addressed.

## **WRLD 250 Introduction to Second Language Acquisition**

Introduces students to the basic theories of how humans learn languages. A basis in first language acquisition learning will be built on theories posited by Skinner, Piaget, Chomsky, and Vygotsky. These theories then lead to an examination and understanding of how learners acquire second languages, including elements of the first and second languages that influence one another.

## **WRLD 300 TESL Methods and Approaches**

Explores the field of teaching English as a second language from the perspective of the latest instructional methods and approaches. While relating to general theories from the field of second language acquisition, the course focuses specially on their application within the ESL context.

## **WRLD 360 Topics in World Language and Culture**

Provides an opportunity to study a topic of interest related to world languages and cultures. Courses in topical areas not offered in the regular curriculum may be offered on a rotating basis. The course may be repeated for credit as subject matter changes. Prerequisite: Sophomore standing and permission of instructor.

## **WRLD 375 English for TESL**

Focuses on English grammar and structural components specifically related to students learning English as a second language. In order to be effective ESL teachers, students must have a strong grasp of the grammatical and structural concepts that challenge ESL students. The course focuses on the metalanguage of English grammar and highlights grammatical and structural concepts with which ESL students typically have difficulty. Methods and strategies of teaching grammar to ESL students are also studied.

# **WRLD 397 Methods in Teaching World Languages**

Deals with the theory, methods, and techniques of foreign-language teaching at the pre-K through 21 levels. Does not count toward required hours for language majors. Candidates are required to observe public school classes at a minimum of two different levels in their language(s) of licensure. A minimum of ten hours must be logged in language classes, and the field experience needs to culminate in a minimum of two in-class microteaching experiences under the supervision of the classroom teacher. The classroom teacher is asked to fill out a feedback form for each microteaching lesson. Candidates write a self-assessment including a reflection on the classroom teachers' feedback. Contact department chair for schedule of offering.