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Fall 2007

## 2007-2009 Otterbein College Undergraduate Course Catalog

Otterbein University

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# OTTERBEIN COLLEGE

## Undergraduate Course Catalog

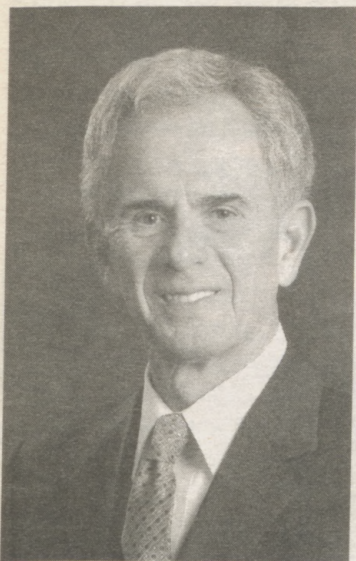
**Autumn, 2007 through Summer, 2009**



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# From the President



I like to refer to Otterbein as a *comprehensive liberal arts college*. As a *comprehensive college*, we offer a focused curriculum that will prepare you for a broad range of specific careers. As a *liberal arts college* you will explore a breadth of subjects looking beyond your immediate environment to embrace new perspectives to help prepare you for the challenges and ambiguities you will face in a lifetime.

As a student at Otterbein, receiving personal attention from professors is the rule not the exception. With a student-to-faculty ratio of 13 to 1, the focus is on personal collaboration between you and your professors. Our faculty care about your personal as well as your intellectual growth. We respect your individual

talents and want to assist you in developing them to their full potential. We want you to be successful.

Welcome to Otterbein!

Cordially,

A handwritten signature in dark ink, reading "C. Brent DeVore". The signature is fluid and cursive.

C. Brent DeVore

President



# The College and the Community



## Institutional Mission

The mission of Otterbein College is to educate the whole person in a context that fosters the development of humane values. Otterbein is a private, co-educational, liberal arts college founded in 1847 and affiliated with the United Methodist Church. Located in Westerville, a suburb of Columbus, Ohio, Otterbein enrolls approximately 3,000 students, including traditional undergraduates and adults in the Continuing Studies and Graduate Studies programs. Otterbein has a student-to-faculty ratio of 12 to 1 and offers 56 majors, as well as individualized fields of study. Master's degree programs are offered in education, nursing and business administration. Accredited since 1913 by the North Central Association of Colleges and Schools, Otterbein consistently ranks in the top 10 comprehensive colleges in the Midwest in *U.S. News and World Report's Guide to America's Best Colleges*. Our commitment is to the liberal arts as the broad base of all learning.

## Our Philosophy

Otterbein College seeks to sponsor a program of liberal arts education. Characteristic of this educational venture are the efforts to help you become increasingly aware of yourself and responsible within the larger society. The College seeks to encourage serious dialogue so that a variety of lively human beings, demonstrating informed, well-disciplined intellectual abilities along with humane values, will develop to serve within the community.



The fulfillment of these purposes requires you to read well, write well, think clearly, identify ideas, know how to discuss, to listen, to seek data and to have powers of synthesis and creativity. Otterbein seeks to provide you with focal points around which self-education may continue after graduation and with attitudes appreciative of those values reflected in the purposes of the College. In striving for such attitudes, you must see your own specialties in a larger perspective and be prepared with a complement of intellectual skills to join creatively in thoughtful dialogue.

The patterns of academic requirements and nonacademic life are designed to help you share in the goals of the College. For example, Integrative Studies offers you a concrete academic opportunity to develop self-awareness and social consciousness through the readings, lectures, class discussions and conversations on the campus. In such fashion you learn to view your special interests from a broader perspective.

The college major you choose also offers the opportunity to develop informed, well-disciplined intellectual abilities. The major will help provide a focus for your college experiences and will form the foundation for career development.

The Senior Year Experience provides a structure to bring together the knowledge and skills gained through Integrative Studies and majors courses as students make the transition from student to professional/citizen in an area of your personal interest.

## **Our History**

Otterbein College was founded (as the Otterbein University of Ohio) in 1847 by the Church of the United Brethren in Christ and named after a co-founder of the Church, Philip William Otterbein, who was a German Reformed pastor and itinerant evangelist. In later years, the Church went through a merger with the Evangelical Association and became the Evangelical United Brethren Church (EUB) and then, through a second merger with the Methodist Church, became the current United Methodist Church. Otterbein was chartered by the State of Ohio in 1849, and granted its first degrees in 1857. It is currently approved by the University Senate of the United Methodist Church. From eight students in 1847, we have grown to a current enrollment of over 3,000.

The College has historically seen its mission centered in a program of liberal arts education in the Christian tradition. While Otterbein has evolved into a comprehensive college, combining traditional liberal arts disciplines and professional programs, the liberal arts remain a foundation for our educational programs.

Similarly, while Otterbein has always emphasized undergraduate education, the decisions to offer graduate degrees are also consistent with our history and mission. The College offered Ph.D. degrees from 1883 until 1895 and M.A. degrees until 1912, and when graduate programs in Education and Nursing were added in 1989 and 1993, one important rationale was that these programs would provide important benefits to the undergraduate curriculum. A Masters of Business Administration was added in 1997.

In addition to its Church-related heritage and its commitment to liberal arts and professional education, three other features of Otterbein's history deserve special attention.

First, from its founding, and as a reflection of Church practices and policies, Otterbein was intentionally and uncommonly inclusive with respect to women and people of color. Otterbein was among the first coeducational colleges in America,



and probably the first college in the United States to be *founded* as coeducational and to admit women to the same programs of study as male students. From its opening, Otterbein employed female faculty members, and it was probably the first college to do so. Otterbein was also one of the first three colleges in the United States to be open to students of color, and College historians have argued that it deserves to be considered the first to be founded with that philosophy.

Second, Otterbein has been unique in the development of a governance system that includes many campus constituencies in college decision-making. During the 1850s and 1860s, a number of faculty served as members of the Executive Committee. Since 1946, faculty and students have served in an advisory role on most trustee committees. In September, 1970, the College implemented a new governance system that is an extension of this inclusive heritage and that received much national attention. The new system provided for a single College Senate, composed of faculty, students, administrators, alumni, and trustees; it also added two elected student trustees and two elected faculty trustees as full voting members of the Board.

Third, in 1968, Otterbein created an innovative general education initiative, the Integrative Studies Program. Originally known as the "Common Courses" in the early history of the institution, the Integrative Studies Program was also established, in keeping with the College's spirit of inclusiveness and community, to provide sufficiently broad study of world culture to enable students to understand the continuum of ideas, movements, and patterns which has produced the civilization of the 21<sup>st</sup> century. Like our governance system, this program has also received national recognition by the Association of American Colleges and Universities. Recent revisions of the program underscore the themes of coherence, breadth of understanding, and intellectual community.

## About Westerville and Central Ohio

Otterbein College is located in Westerville, Ohio, and 15 miles northeast of Columbus, the state capital.

The town of Westerville was only seven years old when Otterbein College was founded in 1847. The fertile lands had been settled earlier by people from New England, New York, and Virginia, and the township surrounding Westerville was named in honor of Blendon, Connecticut. The settlers cleared the land, built their homes, churches, and schools, and then their college. As the township continued to grow, Westerville grew too, but for many decades it was known as the "quiet, peaceful village."

Westerville still retains the advantages of a small town while offering the amenities that go with a modern community. At Otterbein you are only a short walk from uptown Westerville with its restored buildings, brick streets, charming gift and antique shops, boutiques and cafes. The town's many parks provide opportunities for recreation or just relaxation. And nearby you will find lakes where you can sail and water ski.

Columbus, one of the 15 largest cities and metropolitan areas in the country, is centrally located in Ohio. As the state capitol, Columbus is one of the fastest growing cities in the country. An innovative city, it is known worldwide for the large presence in its economy of progressive businesses and for its quality work force.

Recent years have seen an upsurge in arts related events as world class entertainment has come to be the standard for Columbus. The arts and cultural amenities of



Columbus rival those of any other major city in the United States.

The art crowd gathers at the Columbus Museum of Art which holds special events throughout the year. Once a month, art lovers flock to the Gallery Hop in the Short North, an eclectic neighborhood of cafes, art galleries, antique shops and boutiques, where local businesses open their doors for late evening visits.

The Columbus Symphony Orchestra, BalletMet, Opera/Columbus and the Columbus Association for the Performing Arts (CAPA) bring world-renowned performances to the area. Also the Martin Luther King Jr. Performing and Cultural Arts Complex showcases African-American exhibits and performances, while The Ohio State University's Wexner Center for the Performing Arts has emerged as a showplace for avant garde performances. Close at hand lies the Germain Amphitheatre, among several other venues that bring concerts of all types to town.

Columbus also is home to a variety of theater companies and venues including the Contemporary American Theatre Company (CATCO), Reality Theatre, Shadowbox Theatre, the Riffe Theatre, the Great Southern Theatre, the Palace Theatre and the Ohio Theatre.

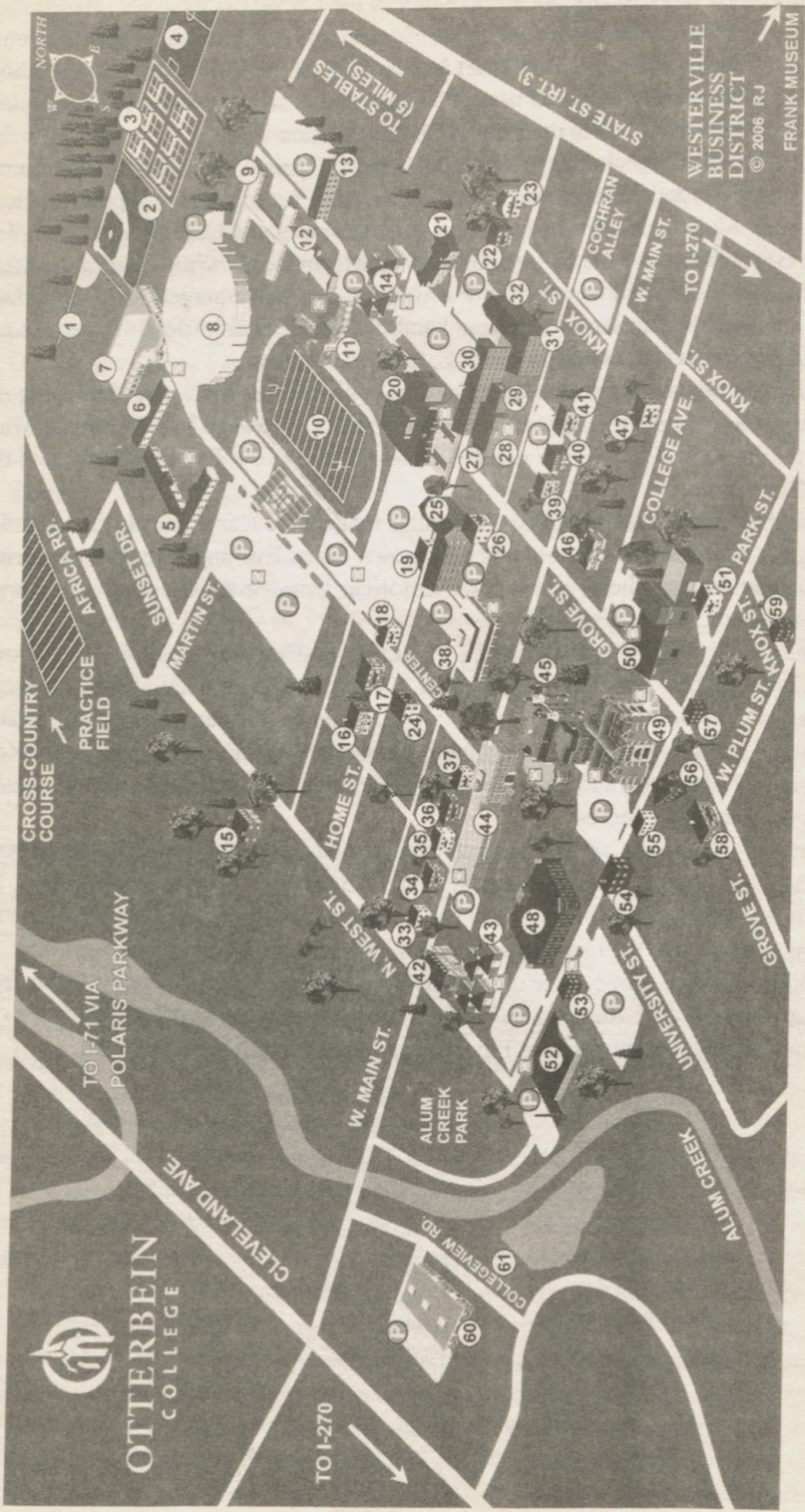
Other attractions in downtown Columbus include the Center for Science and Industry (COSI); Thurber House, which is known for its Evening with Authors series; and German Village, the largest restored historical district in the country with its brick streets, restaurants and gift shops.

The city is also a shopper's mecca. Easton Town Center is a popular indoor/outdoor shopping and entertainment complex. The North Market is trendy and a historic farmer's market in downtown Columbus. Additionally, there are many malls around Columbus and the outlying suburbs, including Polaris Fashion Place and Tuttle Mall. Columbus is also known for its many specialty coffee shops and book stores including many discount book stores.

Professional sports are taking hold in Columbus with the Major League Soccer (MLS) team, the Columbus Crew; the National Hockey League (NHL) team, the Columbus Blue Jackets (located in the Arena District of restaurants, theatre and other entertainment); and the Columbus Clippers, the minor league baseball franchise.

Dining out is also one of the attractions in Columbus. You can sample cuisine from all parts of the world. Restaurants of all ethnic types are scattered throughout the city and range from fast food to fine French dining and everything in between.





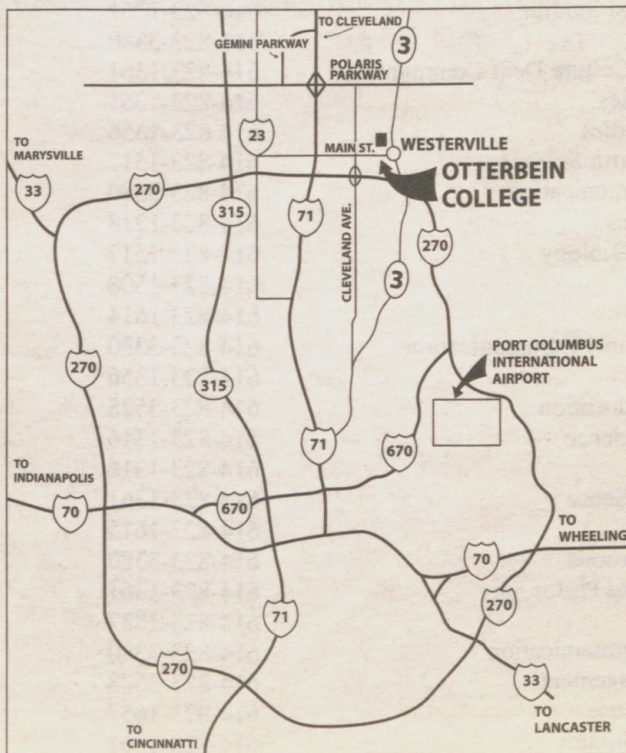


## Legend to campus map on page 8

- |  |  |   |
|--|--|---|
| 61 60 Collegeview Road   | 13 Engle Hall (Residence Hall)                           | 19 Sigma Alpha Tau Sorority                           |
| 60 Art and Communication Departments                                     | 39 Epsilon Kappa Tau Sorority                            | 4 Soccer Field  |
| 28 Barlow Business Office  | 54 Eta Phi Mu Fraternity                                 | 1 Softball Field                                      |
| 2 Baseball Field   | 9 Garst Hall (Residence Hall)                            | 31 Student Affairs Office                             |
| 48 Battelle Fine Arts Center   | 32 Hanby Hall (Residence Hall)                           | 43 Student Apartments (The Commons)                   |
| 20 Campus Center: Bookstore/Dining/<br>Security Office/Quizno's          | 37 Hanby House (Historical)                              | 14 Student Apartments (The Commons II)                |
| 27 Career Development/ Human<br>Resources                                | 57 Hancock House: Alumni Relations                       | 36 Tau Delta Sorority                                 |
| 55 Cellar House/Marketing & Comm.  | 56 Howard House: Institutional<br>Advancement            | 34 Tau Epsilon Mu Sorority                            |
| 29 Chapel  | 41 Kappa Phi Omega Sorority                              | 3 Tennis Courts                                       |
| 30 Clements Hall (Residence Hall)  | 51 Lambda Gamma Epsilon Fraternity                       | 11 The Suites (Residence)<br>Theme Housing            |
| 15 Clements House (President)  | 25 Mayne Hall (Residence Hall)                           | 23 46 W. Home St.                                     |
| 7 Clements Recreation Center   | 10 Memorial Stadium                                      | 17 154 W. Home St.                                    |
| 46 Clippinger Hall: Admission/ Financial<br>Aid, International Admission | 40 Mikesell House  | 33 188 W. Main St.                                    |
| 35 172 W. Main St.   | 21 Otterbein Health Center                               | 16 162 W. Home St.                                    |
| 40 Community Engagement/ Chaplain's<br>Office                            | 53 Otterbein Women's Club Thrift Shop                    | 18 146 W. Home St.                                    |
| 38 Courtright Memorial Library/<br>Otterbein Cafe                        | 59 Pi Beta Sigma Fraternity                              | 24 155 W. Home St.                                    |
| 50 Cowan Hall/Fritsche Theatre   | 58 Pi Kappa Phi Fraternity                               | 22 Theta Nu Sorority                                  |
| 5 Davis Hall (Residence Hall)  | 26 Psychology Department                                 | 45 Towers Hall: Registrar/Adult Continuing<br>Studies |
| 6 Davis Hall Annex (Residence Hall)                                      | 8 Rike Physical Education                                | 47 Zeta Phi Fraternity                                |
| 42 Dunlap-King Hall (Residence Hall)                                     | 49 Roush Hall: Graduate Admission/<br>Roost Express Deli |   |
|  | 44 Scheer-McFadden Science Hall                          |   |
|  | 12 Scott Hall (Residence Hall)                           |   |
|  | 52 Service Department                                    |   |

EMERGENCY PHONES

PARKING





## Frequently Requested Telephone Numbers

### *Academic Offices*

Academic Offices are open Monday through Friday from 8:30 a.m. until 5:00 p.m. during the regular academic year with the exception of December when many offices are closed. Summer hours are 8:30 a.m. until 4:00 p.m. although not all offices are open in summer.

Actuarial Science	614-823-1218
Art	614-823-1792
Athletic Training	614-823-3528
Black Studies	614-823-1837
Broadcasting	614-823-3380
Business/Accounting/Economics	614-823-1310
Chemistry/Biochemistry	614-823-1316
Computer Science	614-823-1218
Education	614-823-1214
English	614-823-1218
Environmental Science	614-823-1517
Equine Science	614-823-1843
Foreign Languages	614-823-1361
Health Education	614-823-3528
Health Promotion and Fitness	614-823-3528
History	614-823-1361
Honors Program	614-823-1211
Integrative Studies	614-823-1210
International Studies	614-823-1361
Journalism	614-823-3380
Language/Culture Deaf Community	614-823-1361
Legal Studies	614-823-1361
Liberal Studies	614-823-1356
Life and Earth Sciences	614-823-1517
Mass Communication	614-823-3380
Mathematics	614-823-1218
Molecular Biology	614-823-1517
Music	614-823-1508
Nursing	614-823-1614
Organizational Communication	614-823-3380
PACE	614-823-1356
Physical Education	614-823-3528
Physical Science	614-823-1316
Physics	614-823-1316
Political Science	614-823-1361
Psychology	614-823-1615
Public Relations	614-823-3380
Religion and Philosophy	614-823-1361
Sociology	614-823-1837
Speech Communication	614-823-3380
Sport Management	614-823-3528
Theatre/Dance	614-823-1657
Women's Studies	614-823-1361



Administrative Offices

Administrative offices are open Monday through Friday from 8:30 a.m. until 5:00 p.m. during the regular academic year. Summer hours are 8:30 a.m. until 4:00 p.m. Some offices have extended hours throughout the year.

Admission (traditional-age students)	614-823-1500
Admission (continuing education students)	614-823-1356
Academic Dean	614-823-1556
Academic Support Center	614-823-1610
Athletics	614-823-3529
Bookstore	614-823-1364
Business Office (billings and payments)	614-823-1150
Campus Center	614-823-3202
Career Center	614-823-1456
Chaplain	614-823-1409
Continuing Studies	614-823-1356
Financial Aid	614-823-1502
Graduate Programs	614-823-1310
Health Center	614-823-1345
International Programs	614-823-1312
Library	614-823-1215
Mail Center	614-823-1882
Registrar	614-823-1350
Security	614-823-1870
Student Affairs (residence life; meal plans)	614-823-1250
Veterans	614-823-1249



# The Academic Program

## Degrees Offered

The College offers the following degrees at the *undergraduate* level:

Bachelor of Arts (B.A.)  
Bachelor of Science (B.S.)  
Bachelor of Fine Arts (B.F.A.)  
Bachelor of Music (B.MUS.)  
Bachelor of Music Education (B.M.E.)  
Bachelor of Science in Education (B.S.E.)  
Bachelor of Science in Nursing (B.S.N.)

In the programs at Otterbein College that offer both the BA and the BS degrees, the degrees have been defined as:

1. The BA degrees are programs that are designed to provide a broad coverage of one field in the context of a comprehensive liberal arts education. BA degrees are characterized by breadth and flexibility (i.e. opportunities for electives outside the major). They are appropriate for students combining the study of their principal program with the study of other disciplines (e.g. the sciences, professional studies, art, humanities, or the social sciences).
2. The BS degrees are programs that are specifically designed to prepare students for graduate and professional programs. BS degrees are characterized by specialization and depth and include significant quantitative components. They typically require advanced work within the discipline and supporting and/or interdisciplinary work in related disciplines. BS students may also be required to complete an independent research project through departmental, internship, honors, or distinction programs.

The College offers the following degrees at the *graduate* level:

Master of Business Administration (M.B.A.)  
Master of Arts in Education (M.A.E.)  
Master of Arts in Teaching (M.A.T.)  
Master of Science in Nursing (M.S.N.)

*Additional information regarding the Master's degree programs is described in separate publications available upon request from the Graduate Programs Office.*

## The Liberal Arts Core

All students at Otterbein College take a core of courses in the liberal arts. The largest piece in this core is the Integrative Studies (INST) program, which focuses on the theme of human nature. This program was originally called the Common Courses to emphasize that all of us need a shared base of knowledge so that we can join in the discussions of ideas and issues important to educated people. Through the



Integrative Studies program, students take courses in the social sciences; the arts; the natural sciences; religion and philosophy; and literature and composition. Through the variety of disciplines integrated in the program, the college ensures that Otterbein graduates have a breadth of knowledge and experiences in different approaches to a common theme.

Otterbein College also requires experience and knowledge in mathematics and in foreign languages. The requirements in these areas work together with the Integrative Studies program to ensure breadth in learning. Students are exposed to the importance of mathematics in building analytic and logical power, in understanding the physical world, and in coping with the quantitative and technical information which increasingly governs society. The study of a foreign language prepares students to participate more fully as citizens of an increasingly interconnected and interdependent world community and develops an awareness, understanding and appreciation of cultures other than their own. College academic foundation skills include writing, and the three-course writing sequence in the Integrative Studies program (INST 100/105/110, 270, and 300) is designed to ensure regular practice and development of formal writing skills in presentation and support of ideas. In addition, Otterbein has made the commitment to support the physical as well as the mental skills of its students, and requires three one-credit hour courses in Health and Physical Education.

During their senior year, candidates for all Bachelor's degrees must meet the Senior Year Experience (SYE) requirement. The requirement is designed to allow students to bring together the learning gained in their majors and their liberal arts core courses. The SYE requirement can be met through a variety of choices; all provide closure for the four years of a liberal arts education and ensure the opportunity for personal and college assessment.

### ***The Integrative Studies Program and Requirements***

Candidates for all Bachelor's degrees must complete the Integrative Studies Program requirements. The Integrative Studies Program builds self-knowledge as well as knowledge of the diversity of cultures, traditions, and points of view in the world. At each level in the program, the frame within which individuals see themselves widens and becomes both more complex and more inclusive. As a result, students going through the Integrative Studies Program gain a broad, general knowledge of the world they live in.

The program of courses in Integrative Studies consists of ten requirements (50 credit hours), which must be taken throughout the four years of undergraduate education, with some designed specifically for freshmen, some for sophomores, and some for juniors and seniors. At the freshman level, courses emphasize the individual and the context of society and history. Sophomores and juniors are asked to consider in depth the significance of their values, philosophy, and beliefs. At the junior and senior level, students then put their knowledge of themselves, their own traditions, and their own beliefs into the context of the arts and the sciences. Finally, students are expected to consider their knowledge and beliefs within the wider context beyond the Euro-American world and its variety of cultural forms and values. All the courses are linked by a common goal: to understand human nature and our place in the universe.



### **Freshman Requirements**

*Required/Choose one writing course.*

INST 100 Freshman Seminar

INST 105 Growing Up in America

INST 110 Composition and Literature: *The Individual and Society*

*Required/Choose one social science course.*

INST 120 Civic Engagement and Political Life

INST 130 Psychology and Human Nature

INST 160 World Geography & Human Society

INST 170 Inequality in Contemporary American Society

INST 180 Encountering Cultural Systems

*Required social science course.*

INST 150 Issues in Western Experience

### **Sophomore Requirements**

*Optional/This natural science course and one upper level INST natural science course fulfill the INST Natural Sciences requirement.*

INST 240 Scientific Thinking and Doing, an Interdisciplinary Approach

*Required/Choose one religion or philosophy course.*

INST 250 Philosophy and Human Nature

INST 260 Human Nature in the Christian Tradition

*Required writing course.*

INST 270 Composition and Literature: *Relationships and Dialogues*

### **Junior and Senior Requirements**

**Please note: Students must take the freshman and sophomore level requirements before enrolling in the junior and senior level requirements.**

*Required writing course.*

INST 300 Composition and Literature: *The Dilemma of Existence*

*Required/Choose one fine arts course.*

INST 310 Art Forms: *Images and Ideas*

INST 320 Music and Human Nature

INST 330 Theatre and Human Nature

*Required/Choose two natural science courses.*

INST 340 Chemistry Affects Our Lives

INST 350 Biological Science: *Being in Nature*

INST 360 Energy, Science, and Society

INST 400 Earth Science and Humankind

INST 410 Our Place in the Universe



*Required/Choose one global thought course.*

INST 380 Human Nature in World Religions and Philosophies

INST 381 Aspects of World Music

INST 382 African Cultures and Colonialism

INST 383 Modern Indian Culture and Literatures

INST 384 Approaching Japan Through Its Arts

### **The Foreign Language Requirement**

It is strongly recommended that students complete their foreign language requirement in the first year of enrollment. Students with strong background in a foreign language might be able to begin with the second or third course of foreign languages. To assist students in determining which is the appropriate course to register for, students should consult the website of the Department of Foreign Languages <http://www.otterbein.edu/dept/foreignlang/>. Students are encouraged to combine further language study with their majors.

#### **For B.A. students:**

Satisfactory completion of one of the following: French 110, German 110, Italian 110, Japanese 110, or Spanish 110. (Note: these courses have a 100-level prerequisite.)

#### **For B.S. students:**

Satisfactory completion of one of the following: French 120, German 120, Italian 120, Japanese 120, or Spanish 120. (Note: these courses have both 100-level and 110-level prerequisites.)

#### **For B.F.A., B.M.E., B.S.E., and B.S.N. students:**

No foreign language requirement.

#### **For B.MUS. students:**

10 hours of French, German, Italian, Japanese, or Spanish at 110-499 level.

The foreign language requirement may be satisfied through these means:

1. Taking the appropriate foreign language course(s) at Otterbein College.
2. Transferring equivalent foreign language courses from another college. To determine equivalencies to Otterbein foreign language courses, please consult the Otterbein Registrar's website or contact the Chair of the Department of Foreign Languages. In addition, equivalent transfer credit for foreign languages other than those offered at Otterbein (e.g., Greek, Swahili, or Arabic) may be used.
3. Receiving the appropriate score on the College Level Examination Program (CLEP) examination in French, German or Spanish. Students who earn a designated higher score on the CLEP examination will receive 5 credit hours.
4. Receiving the appropriate score on Brigham Young University's Foreign Language Achievement Tests (FLATS) examination. Students must arrange in advance with the Department of Foreign Languages to take this examination, which is available for 55 languages. All costs connected to the examination are paid by the individual student.



5. Completing a foreign language AP exam with a score of 3 or better. Receiving a score of 3 would provide an exemption from the foreign language requirement. Students who receive a score of 4 or 5 would be exempt from the foreign language requirement and will receive credit for the appropriate Otterbein-equivalent course.
6. International Students whose native language is not English and who have taken high school and/or college coursework in their native language may be exempt. Students who wish to claim this exemption must contact the Chair of the Department of Foreign Languages.

### ***The Mathematics Requirement***

**For B.A. students:** Math 115 or 116 or 120 or 150 or PHIL 125

**For B.S. students:** Math 120 (or Math 115 and 116), 170, and 180

**For B.F.A. students:** not required

**For B.M.E. students:** not required in the liberal arts core, but there is a math requirement in the major

**For B.MUS. students:** not required

**For B.S.E. students:** not required in the liberal arts core, but there is a math requirement in the major

**For B.S.N. students:** not required in the liberal arts core, but there is a math requirement in the major

The Department of Mathematical Sciences administers a placement test for mathematics. Based on the results of this test, it is possible to place out of part of the B.S. mathematics requirement. The rest of the B.S. requirement, as well as the B.A. requirement, must be satisfied through college credit. It is also possible that the examination will indicate a student's math skills need additional strengthening. This is achieved by taking one or two pre-college level courses which do not count toward graduation (ASC 080; Math 090). In addition, some majors require more than one college level mathematics course.

### ***The Health and Physical Education Lifestyle Series Requirement***

Candidates for all Bachelor's degrees must complete one course from the HPES 101 series, one course from the HPES 102 series and one course from the HPES 103 series. Students who will be 23 years of age by the time they graduate and students enrolled in the Continuing Studies program are exempt from this requirement.

*Each of the HPES courses (101, 102, 103) is repeatable to a maximum of 2 credits. Credits exceeding the limit will not count towards graduation.*

### ***The Senior Year Experience Requirement***

Candidates for all Bachelor's degrees must complete the Senior Year Experience (SYE). The Senior Year Experience is designed to teach and strengthen the skills and practice of synthesis; to ensure structure, content, and credit for the work of connecting learning across disciplinary boundaries; to provide a focal point and closure for the four years of a liberal arts education; and to provide a bridge among academic



learning, professionalism and responsible citizenship. SYE courses and options expose students to significant contemporary social issues that challenge us as citizens; give tools for understanding and making ethical choices when faced with such issues; provide a curricular space in which to bring together the learning gained in majors and Integrative Studies courses; provide opportunities for working together on issues that require a wide range of disciplinary perspectives and expertise; and enable students to consider their roles as educated persons, professionals, and citizens. *Students must have completed 135 credit hours and seven of 10 Integrative Studies courses before taking the SYE requirement. Some options may have additional prerequisites; check individual course descriptions. The SYE requirement must be taken in residence.*

Students can meet their SYE requirement through 1) team-taught five-credit hour interdisciplinary SYE courses; 2) departmental offerings that include SYE components and have been approved by the SYE Committee; or 3) SYE offerings tied to off-campus, immersion, internship, or individualized experiences. Because the options meeting this requirement vary from year to year, they are listed annually in registration materials available in the Registrar's Office and on CardinalWeb for Students. Students should familiarize themselves with these materials and meet with their advisor before selecting their SYE choice.

## The Major

To complement the broadening aspects of the liberal arts and elective components of the baccalaureate degree, students must also pursue a primary concentration in depth, called a **major**. The major is designed to provide an understanding of the theories, perspectives, and practices related to a particular body of knowledge. Otterbein offers disciplinary and interdisciplinary majors. A disciplinary major requires students to take coursework from one academic discipline and may require some supporting courses drawn from other academic disciplines. An interdisciplinary major requires students to take a balanced selection of courses from at least two academic disciplines. The requirements for the majors programs differ from department to department, and some include required grade point averages as well as specific course requirements. All majors require at least 15 quarter hours in residence and all of these hours must be at the 300/400 course level. Selecting a major also means selecting the particular degree you receive upon graduation.

Some students select a major directly identified with an occupation. Others choose one of the College's liberal arts majors that traditionally lead to employment in diverse areas. For other students the choice of major is directed at preparation for graduate school.

Many students entering college are undecided about a major. During their early quarters of enrollment at Otterbein, these students typically schedule core courses and experiment by enrolling in courses in majors in which they have a general interest. Faculty advisors are available to help students begin the process of selecting a major and begin thinking about a career.



## **Majors Offered**

### **Bachelor of Arts (B.A.) Majors**

Accounting	Individualized
Accounting, Public	International Studies
Art	Journalism
Athletic Training	Life Science
Biochemistry	Mathematics
Broadcasting	Molecular Biology
Business Administration	Music
Chemistry	Organizational Communication
Computer Science	Philosophy
Economics	Physical Education
English	Physics
Environmental Science	Political Science
Equine Health Technology	Psychology
Equine Business and Facility Management	Public Relations
Equine Science Preveterinary and Pregraduate Studies	Religion
French	Sociology
Health Education	Spanish
Health Promotion and Fitness	Speech Communication
History	Sport Management
	Theatre

### **Bachelor of Arts (B.A.) Majors in Liberal Studies**

(open to students enrolled in the Continuing Studies Program, see p. 348)

Liberal Studies in Business Administration  
Liberal Studies in Business Psychology  
Liberal Studies in Human Resources Management  
Liberal Studies in Leadership  
Liberal Studies in Management and Leadership  
Liberal Studies in Organizational Communication

### **Bachelor of Science (B.S.) Majors**

Accounting	Equine Business and Facility Management
Accounting, Public	Equine Science Preveterinary and Pregraduate Studies
Actuarial Science	Individualized
Athletic Training	Life Science
Biochemistry	Mathematics
Business Administration	Molecular Biology
Chemistry	Physical Science
Computer Science	Physics
Economics	Psychology
Environmental Science	



### **Bachelor of Fine Arts (B.F.A.) Majors**

Acting  
Design/Technology  
Musical Theatre  
Musical Theatre with Dance Concentration

### **Bachelor of Music (B.MUS.)**

Performance

### **Bachelor of Music Education (B.M.E.) Majors**

Music Education

### **Bachelor of Science in Education (B.S.E.) Majors**

Early Childhood Education  
Middle Childhood Education

(Students planning to teach at the secondary level seek the B.A. or B.S. degree.)

### **Bachelor of Science in Nursing (B.S.N.) Majors**

Nursing

### **Individualized Major (B.A. or B.S.)**

To provide flexibility in college requirements for a student who has set a goal which does not fit within the present requirements of the department major-elective system, the opportunity to propose an individualized major is offered under the Bachelor of Arts or Bachelor of Science Degree. The student must have at least 75 quarter hours of work remaining toward the 180-quarter-hour degree requirement at the time of entry into the program. The program, which must receive the approval of the Curriculum Committee\*, requires:

- a. a clear statement of the objective to be reached by the program
- b. a course-by-course, quarter-by-quarter schedule showing all courses in the major and the liberal arts core leading to the degree
- c. a maximum of 75 quarter hours for the approved program, to be determined by the Curriculum Committee in consultation with the advisor. A copy of the approved program must be signed by the Curriculum Committee Chairperson and kept on file in the Registrar's Office
- d. written recommendations from the faculty advisor and a knowledgeable faculty member from another department, indicating their approval of the plan and their assurance that the liberal arts emphasis of the College is maintained.
- e. the names of two specialists from outside the Otterbein community who would be in a position to pass judgment on the program.

\*Once the program is approved, any forthcoming substitutions and/or waivers must be approved by the Curriculum Committee.



## Second Major

With careful planning, it may be possible to earn a second major during the same period the first major is being earned. The decision should be made early, and students are strongly encouraged to arrange for advising in both academic disciplines.

## The Minor

Students may elect to complete a minor as well as a major when they are interested in pursuing coursework in a second field. A minor consists of 20 or more quarter hours of coursework in one field of study or in an interdisciplinary group of courses. A maximum of 10 quarter hours of independent study may be counted toward the minor. The minor requires at least five quarter hours in residence and a cumulative grade point average of at least 2.0.

### Minors offered

Accounting	Individualized
Art	Japanese
Art History	Journalism Publication and On-Line Design
Arts Administration	Journalism Writing
Black Studies	Language and Culture of the Deaf Community
Broadcasting	Legal Studies
Business Administration	Life Science
Chemistry	Mathematics
Coaching	Music
Computer Science	Philosophy
Dance	Physical Education
Economics	Physics
Earth Science	Political Science
English	Public Relations
Environmental Studies	Psychology
Equine Studies	Religion
French	Sociology
German	Sound Production*
Health Education	Spanish
History	Speech Communication
* open to BA Music majors only	Women's Studies

### Individualized Minor

The individualized minor is designed to provide flexibility for students to pursue a secondary academic goal that does not fit within the structure of available minors. A student who proposes such an individualized minor must have at least 60 quarter hours of work remaining toward the 180-quarter-hour degree requirement at the time of entry into the program. The program, which must receive the approval of the Curriculum Committee,\* requires:

- a clear statement of the objective to be reached by the program
- a course-by-course, quarter-by-quarter schedule leading to the minor and description of how courses meet the objective in part a.



- c. a minimum of 30 quarter hours for the approved program, to be determined by the Curriculum Committee in consultation with the advisor. No more than 5 of the hours may be counted in another major or minor. A copy of the approved program must be signed by the Curriculum Committee Chairperson and kept on file in the Registrar's Office.
- d. written recommendations from the faculty advisor of record and a knowledgeable faculty member from a department involved in the minor indicating their approval of the plan and their assurance that the liberal arts emphasis of the College is maintained.

\*Once the program is approved, any forthcoming substitutions and/or waivers must be approved by the Curriculum Committee.

## Summary of Degree Requirements

To graduate from Otterbein College, all students must complete the core of liberal arts requirements described below. In addition, all students must have a major and complete the requirements for that major program. While some majors' requirements are extensive, most leave room for electives, courses students choose out of interest and a desire to explore new disciplinary areas. Students often use part of this elective opportunity to complete a minor, and some students complete a second major. In all programs except Public Accounting, students must earn a minimum of 180 quarter hours to graduate. Public Accounting majors must earn a minimum of 225 quarter hours to graduate.

### Bachelor of Arts (B.A.) Degree Requirements

A candidate for the B.A. degree must complete the following:

- all requirements in the major
- the Integrative Studies program
- French 110, German 110, Italian 110, Japanese 110 or Spanish 110 for all majors except Music; these courses have a 100-level prerequisite; for Music, must complete 10 hours at 110 level or above
- at least one mathematics course (Math 115, 116, 120 or 150; or PHIL 125)
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours (or 185 if MATH 090 was taken; or 190 if ASC 080 and MATH 090 were taken); Public Accounting majors must earn 225 quarter hours

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed



### ***Bachelor of Science (B.S.) Degree Requirements***

A candidate for the B.S. degree must complete the following:

- all requirements in the major
- the Integrative Studies program
- French 120, German 120, Italian 120, Japanese 120 or Spanish 120; these courses have both 100-level and 110-level prerequisites
- three mathematics courses (Math 120 [or Math 115 and 116], 170 and 180)
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours (or 185 if MATH 090 was taken; or 190 if ASC 080 and MATH 090 were taken); Public Accounting majors must earn 225 quarter hours

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed

### ***Bachelor of Fine Arts (B.F.A.) Degree Requirements***

A candidate for the B.F.A. degree must complete the following:

- all requirements in the major
- the Integrative Studies program
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours, though closer to 200 hours are more likely

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed

### ***Bachelor of Music (B.MUS.) Degree Requirements***

A candidate for the B.MUS. degree must complete the following:

- all requirements in the major
- Integrative Studies program
- two levels of a foreign language (French, German, Japanese or Spanish 110 or higher)
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience



- at least 180 quarter hours, though closer to 200 hours are more likely

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least 2 quarters prior to the quarter in which the degree is completed

### ***Bachelor of Music Education (B.M.E.) Degree Requirements***

A candidate for the B.M.E. degree must complete the following:

- all requirements in the major
- Integrative Studies program
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours (or 185 if MATH 090 was taken; or 190 if ASC 080 and MATH 090 were taken) though closer to 200 hours are more likely

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall (to be certified to teach, must have 2.5 overall)
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed

### ***Bachelor of Science in Education (B.S.E.) Degree Requirements***

A candidate for the B.S.E. degree must complete the following:

- all requirements in the major
- the Integrative Studies program
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours (or 185 if MATH 090 was taken; or 190 if ASC 080 and MATH 090 were taken) though closer to 200 hours are more likely

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall (to be certified to teach, must have 2.5 overall)
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed



## **Bachelor of Science in Nursing (B.S.N.) Degree Requirements**

A candidate for B.S.N. degree must complete the following:

- all requirements in the major
- the Integrative Studies program
- three HPES (101, 102 and 103) health and physical education lifestyle series courses unless exempt
- the Senior Year Experience
- at least 180 quarter hours (or 185 if MATH 090 was taken; or 190 if ASC 080 and MATH 090 were taken) though closer to 200 hours are more likely

In addition, a candidate must:

- have a cumulative grade point average of at least 2.0 in the major as well as overall
- earn a final grade of C or higher in all Nursing courses; Chemistry 110 and 220; Integrative Studies 130 and 100 or 105 or 110; and Life Science 108, 109, 206 and 312
- not complete more than 10 hours of independent study (390 course number) at the major level or 15 hours in all academic disciplines
- request an Application for Degree from the Office of the Registrar at least two quarters prior to the quarter in which the degree is to be completed.

## **Additional Requirements**

### **Hours Needed to Graduate**

Candidates for all programs except Public Accounting must complete at least 180 quarter hours. Students who have taken Math 090 must complete at least 185 quarter hours, and those who have taken ASC 080 and Math 090 must complete at least 190 quarter hours. Public Accounting majors must complete at least 225 quarter hours.

Any difference between the minimum hours needed to graduate (180/185/190) and the hours earned through the Core Curriculum plus the major may be met by choosing electives, earning a minor, etc.

### **Residence Requirement**

To meet the residence requirements for a Bachelor's degree, a student must complete:

1. at least 15 quarter hours in the major at the 300/400 course level *in an Otterbein classroom*
2. at least 5 quarter hours in the minor *in an Otterbein classroom*
3. at least two Integrative Studies courses *in an Otterbein classroom* with at least one of these two courses at the 300/400 course level
4. at least 60 overall quarter hours *in an Otterbein classroom*; ASC 080 and MATH 090 cannot be used to fulfill this requirement
5. 30 of the final 45 quarter hours must be taken *in an Otterbein classroom*.



## **Interruption in Attendance/Catalog in Force**

The degree requirements of the College in effect at the time of the student's first enrollment are those which must be met for completion of a degree program. Subsequent changes in degree requirements may be substituted with the approval of the department chairperson or Academic Council, whichever is appropriate.

Students who interrupt their enrollment at Otterbein College or in an Otterbein College approved program for longer than 12 consecutive months must meet the requirements for graduation as published in the catalog at the time of re-enrollment.

In some instances, changes in departmental requirements must be applied to students who have already enrolled. In such instances, the new requirements will apply in a manner that will not require a student to carry more than a full-time load otherwise not required in any quarter and will not prolong the time required to complete the degree requirements. Department chairpersons have the authority to waive or provide substitute course work for departmental requirements.

## **Applying For a Degree**

Degrees are granted at the end of Summer, Autumn, Winter and Spring terms. Students planning to graduate must request an Application for Degree at the Office of the Registrar two quarters prior to the quarter in which the degree is to be completed. It is the student's responsibility to be aware of this requirement, to initiate the request and to sign/return the application on time.

## **Adding to a Degree Already Awarded**

Once an Otterbein Bachelor's degree has already been awarded, students are not permitted to alter or enhance the transcript record at a later date by adding another major, a minor, repeating courses to improve the G.P.A., etc. Students may, however, earn a second Otterbein Bachelor's degree as described elsewhere in this section of the catalog.

## **Earning a Second Bachelor's Degree**

### **(all programs except PACE Liberal Studies Programs)**

To earn a second Bachelor's degree after the first has already been conferred, a student must complete:

1. a minimum of 45 quarter hours **in residence** at Otterbein; CLEP, PEP, credit by other means of examination, proficiency tests, etc. may not be used to fulfill this requirement
2. all requirements in the major; at least 15 quarter hours at the 300/400 level must be completed **in residence**
3. two Integrative Studies courses one of which must be at the 300/400 level **in residence**; this is applicable only to students who did not earn the first degree at Otterbein; those who did are exempt from this requirement
4. all other degree requirements as published in the catalog in effect at the time of enrollment (foreign language, mathematics, Senior Year Experience, etc.)

If fewer than 45 quarter hours are needed to complete the major and other degree requirements, the remaining hours needed to reach 45 may consist of elective credit.



## Earning a Second Bachelor's Degree

### (PACE Liberal Studies Programs)

To earn a second Bachelor's degree after the first has already been conferred, a student must complete:

1. a minimum of 45 quarter hours **in residence** at Otterbein; CLEP, PEP, credit by other means of examination, proficiency tests, etc. may not be used to fulfill this requirement
2. all requirements in the major; at least 30 quarter hours in the major (including 15 at the 300/400 level) must be completed **in residence**
3. two Integrative Studies courses from the Liberal Studies core **in residence**
4. foreign language 100 and 110 in transfer or in residence; or, language and culture 105 **in residence**
5. COMM 361 **in residence**
6. MATH 115 or 116 or 150 and 230 in transfer or in residence
7. Senior Year Experience **in residence**

If fewer than 45 quarter hours are needed to complete the major and other degree requirements, the remaining hours needed to reach 45 may consist of elective credit.

## Honors and Recognition

### Dean's List

To be included on the Dean's List, a student must complete at least 12 quarter hours in that term with a grade point average of at least 3.6. There is also an Annual Dean's List which is published at the end of the Spring term grading period. Inclusion on the Annual Dean's List requires a student to be on the Dean's List for the Autumn, Winter, and Spring terms of the academic year just completed, or to complete at least 45 quarter hours in the academic year with a grade point average of at least 3.6. The Dean's List is compiled by the Office of Academic Affairs.

### The Honors Program

The Honors Program at Otterbein College is designed to provide intellectual stimulation and challenge for students with high academic ability. Students selected to participate in the program will have the privilege of attending courses each year that are designated for honors students only. The remainder of their curriculum will consist of courses selected from those available to all students. In this way the College hopes to promote a wide spectrum of experience while providing intellectual stimulation for gifted students.

While the primary benefit of participation in The Honors Program is the ability to enroll in advanced courses with other honors students and the preparation that these courses provide for intensive senior-level independent study, students in the program are also eligible for special housing and the Honors Program sponsors special programming and activities for honors students.

Participation in The Honors Program will be recognized permanently in two ways: Honors courses will be noted on academic transcript record so that potential employers or graduate school admission committees will recognize that level of work completed,



and "With Honors," will be noted on the diploma. The Honors designation will also be included in the commencement program and announced as the diploma is presented. For additional information about The Honors Program, refer to p. 45.

The Honors Program is coordinated by Dr. Cynthia Laurie-Rose of the Psychology Department.

### ***The Distinction Program***

The Distinction Program has a long and useful tradition at Otterbein College. The program involves the design and participation in an independent project within the student's major field of study. The project is carried out in consultation with an advisory committee consisting of a primary project advisor, another member of the faculty chosen by the student in consultation with the advisor, and one member of the faculty appointed by the Distinction Committee.

An independent program of study offers the student an opportunity for personal growth within a chosen field of expertise that far exceeds that available in the classroom. A student in the program will perform independent scholarly activity as defined by the discipline. Students work closely with an advisor, an advisory committee, and prepare a written thesis. This is a collaborative effort that mimics the pursuit of an advanced degree and demonstrates the shared responsibility for learning that is so much a part of a liberal arts tradition.

To be eligible for the Distinction Program, a student must have completed 90 hours of study with a grade point average of 3.0 or above. All potential candidates are notified by the Chair of the Distinction Committee during winter quarter of the junior year. To enter the program the student chooses a faculty member to act as advisor for work in distinction, prepares a proposal, and attaches the proposal to a petition for work in distinction. The distinction project is completed during the senior year.

Persons who complete the program to the satisfaction of their advisory committee will graduate "With Distinction." These students will receive up to five hours of Independent Study with the grade of A and the words "With Distinction" will be included on the diploma and commencement program.

Interested students should contact program coordinator Dr. Michael Hoggarth at the Department of Life and Earth Sciences.

### ***Graduation With Honors (Latin; The Honors Program; Distinction; Departmental)***

Undergraduates may receive honors recognition at graduation based upon overall grade point average (Latin Honors) or participation in The Honors Program or participation in The Distinction Program or grade point average in the major.

For Latin honors, a student must have achieved the following final grade point average:

3.60 for Cum Laude

3.80 for Magna Cum Laude

3.95 for Summa Cum Laude

Latin Honors will be recorded on the permanent transcript record and on the diploma. It will be noted in the commencement program and announced as the recipient is presented the diploma.



For Honors Program recognition, a student must have completed the requirements of the honors program. Honors Program Honors will be recorded on the permanent transcript record and on the diploma. It will be noted in the commencement program and announced as the recipient is presented the diploma. A medal is worn at commencement.

To graduate With Distinction, a student must satisfactorily complete an approved program of independent study and research, submit a thesis and pass oral and written examinations on the field studied. With Distinction Honors will be recorded on the permanent transcript record and on the diploma. It will be noted in the commencement program and announced as the recipient is presented the diploma. A medal is worn at commencement.

For Departmental Honors, a student must have achieved a 3.70 grade point average for all courses in the major by the end of Winter Quarter. Students who are seeking a second Bachelor's degree (first one already awarded) are not eligible for Departmental Honors. Departmental Honors will be noted in the commencement program. A pin is worn at commencement.





# Program and Course Descriptions

## Course Prefix Translations

Course Prefix	Prefix Translation	Home Department	Page #
ACCT	Accounting	Business, Accounting and Economics	59
ART	Art	Art	51
ASC	Academic Support	Academic Support Center	48
ASL	American Sign Language	American Sign Language	49
ATHT	Athletic training	Health and Sport Sciences	143
BADM	Business Administration	Business, Accounting and Economics	59
C SC	Computer Science	Mathematical Sciences	208
CHEM	Chemistry	Chemistry	72
COMM	Communication	Communication	79
DANC	Dance	Theatre and Dance	292
E SC	Earth Science	Life and Earth Sciences	193
ECON	Economics	Business, Accounting and Economics	59
EDUC	Education	Education	94
ENGL	English	English	113
ENST	Environmental Studies	Environmental Studies	122
EQSC	Equine Science	Equine Science	124
ESOL	English/Other Languages	Foreign Languages	134
FREN	French	Foreign Languages	134
GERM	German	Foreign Languages	134
HIST	History	History and Political Science	172
HLED	Health Education	Health and Sport Sciences	143
HNRS	Honors Program	Honors Program	45
HPES	Health and Physical Education	Health and Sport Sciences	143
HUM	Humanities	Humanities	190
INST	Integrative Studies	Integrative Studies	30
ITAL	Italian	Foreign Languages	134
JAPN	Japanese	Foreign Languages	134
JOUR	Journalism	Communication	79
L SC	Life Science	Life and Earth Sciences	193
MASC	Actuarial Science	Mathematical Sciences	208
MATH	Mathematics	Mathematical Sciences	208
MCOM	Mass Communication	Communication	79
MUSC	Music	Music	223
NURS	Nursing	Nursing	240
P SC	Political Science	History and Political Science	172
PHED	Physical Education	Health and Sport Sciences	143
PHIL	Philosophy	Religion and Philosophy	273
PHYS	Physics	Physics and Astronomy	261
PSYC	Psychology	Psychology	267
RELG	Religion	Religion and Philosophy	291
SLD	Student Learning and Develop.	Student Affairs	271
SMGT	Sport Management	Health and Sport Sciences	143
SOCL	Sociology	Sociology	284
SPAN	Spanish	Foreign Languages	134
SYE	Senior Year Experience	Senior Year Experience	41
THR	Theatre	Theatre and Dance	292
WOST	Women's Studies	Women's Studies	306



# Integrative Studies

*Jessen-Marshall (chairperson), and members of other departments.*

The Integrative Studies Program explores the complexities of **human nature** throughout the student's years of study at Otterbein. In doing so, the program builds self-knowledge as well as knowledge of the diversity of cultures, traditions, and points of view in the world. At each level in the program, the frame within which individuals see themselves widens and becomes both more complex and more inclusive. As a result, students going through the Integrative Studies Program gain a broad, general knowledge of the world in which they live. The Program, because of its multidisciplinary nature, may enrich student's graduate study or careers. It also provides Otterbein graduates with the basis for lifelong learning, which in turn may help them adjust to change and complexity, learn new fields, and shift careers. Most important, however, the Integrative Studies Program prepares graduates to become informed citizens in a democracy and to live their lives in family, community, country, and world.

The Integrative Studies Program will help you to:

1. Understand **human nature** and the many facets of our being more fully.
2. Think critically and creatively.
3. Communicate your thoughts accurately and effectively in writing and speaking.
4. Develop competencies in a broad range of disciplines in the liberal arts and sciences.
5. Make integrative connections across disciplines, helping you to engage complex problems with interdisciplinary knowledge.
6. Identify your beliefs and extend your knowledge of ethical and spiritual issues to create a broader understanding and tolerance.
7. Know how to access and evaluate information, resources, and technology and apply them in the appropriate context.

To reach the above goals, students take a core of 50 quarter hours, met through 10 requirements, from the list of Integrative Studies courses below. At some points in the program, all students take the same required course; at other points, students choose from among several options. Courses in the program explore the theme of **human nature** from a variety of disciplinary perspectives, ask students to think critically and to use oral and written communication skills, and encourage students to integrate classroom learning with learning from experience, discussion, performances, lectures, films, and/or service work. The requirements are designed to be taken in a sequence: freshmen take three courses at the 100 level, sophomores take two or three courses at the 200 level, and juniors generally take three courses and seniors two courses at the 300 and 400 level. **Students must take the freshman and sophomore level requirements before enrolling in the junior and senior level requirements.** Each requirement builds on the one before it, and as students move through the sequence of ten courses, they are encouraged to make connections between and among their



Integrative Studies courses, to connect their Integrative Studies courses to their majors courses, and to see the interconnectedness of all knowledge.

Thus, students and advisers must plan schedules carefully, working to coordinate the developmental sequences of both Integrative Studies and the major. Some flexibility is added through the Integrative Studies Policy on Substitutions described in this section.

### Freshman Requirements

*Required/Choose one (writing):*

- ☐ INST 100.. Freshman Seminar
- ☐ INST 105.. Growing Up in America
- ☐ INST 110.. Composition and Literature: The Individual and Society

*Required/Choose one (social sciences):*

- ☐ INST 120.. Civic Engagement and Political Life
- ☐ INST 130.. Psychology and Human Nature
- ☐ INST 160.. World Geography and Human Society
- ☐ INST 170.. Inequality in Contemporary American Society
- ☐ INST 180.. Encountering Cultural Systems

*Required (social sciences):*

- ☐ INST 150.. Issues in Western Experience

### Sophomore Requirements

*Optional (natural science); this course plus 1 upper level INST natural science course fulfills the INST Natural Sciences requirement:*

- ☐ INST 240.. Scientific Thinking And Doing, An Interdisciplinary Approach,

*Required/Choose one (religion and philosophy):*

- ☐ INST 250.. Philosophy and Human Nature
- ☐ INST 260.. Human Nature in the Christian Tradition

*Required (writing):*

- ☐ INST 270.. Composition and Literature: Relationships and Dialogues

**Students must take freshman and sophomore level requirements before enrolling in junior and senior level requirements.**

### Junior and Senior Requirements

*Required (writing):*

- ☐ INST 300.. Composition and Literature: the Dilemma of Existence

*Required/Choose one (fine arts):*

- ☐ INST 310.. Art Forms: Images and Ideas
- ☐ INST 320.. Music and Human Nature
- ☐ INST 330.. Theatre and Human Nature

*Required/Choose two (choose one if take INST 240 — natural sciences):*

- ☐ INST 340.. Chemistry Affects Our Lives
- ☐ INST 350.. Biological Science: Being in Nature
- ☐ INST 360.. Energy, Science, and Society



☐ INST 400.. Earth Science and Humankind

☐ INST 410 . Our Place in the Universe

*Required/Choose one (global perspectives):*

☐ INST 380.. Human Nature in World Religions and Philosophies

☐ INST 381 .. Aspects of World Music

☐ INST 382.. African Cultures and Colonialism

☐ INST 383.. Modern Indian Culture and Literatures

☐ INST 384.. Approaching Japan Through Its Arts

### **Policy on Waivers**

One INST course may be waived for participation in an approved off-campus study program (not an internship and not in summer) for a quarter or a semester, and two INST courses may be waived for full-academic-year participation. In addition to any waived courses, courses in approved off-campus study programs may be used as substitutes for INST courses according to the Policy on Substitutions below. Please see the INST Department Chairperson for approval. Regardless of the number of quarters spent in off-campus study, *only one of the composition and literature courses may be waived or substituted and only one of the two required natural sciences may be waived.*

### **Policy on Substitutions**

Of the ten required Integrative Studies courses, up to **three** may be completed with substitutions from other academic areas. The conditions under which substitutions may be made are:

1. Substitutions are restricted to those that appear on the approved list below.
2. Courses on the approved list that were transferred from other institutions **do not** count as part of the three substitutions permitted.
3. A substitution may be made for **either** INST 270 or INST 300, **but not both**. (There are no approved substitutions for INST 100/105/110.)
4. A substitution may be made for **one** of the two required INST natural science courses (INST 340/350/360/400/410), **but not both**. There currently is no approved substitution for INST 410.
5. Substitute courses taken in an off-campus study program must be approved by the chairperson of the Integrative Studies Department.
6. To register for a substitution, select the section with the # sign (example: RELG 100-#1).

*Transfer students need to keep in mind that the INST residency requirement must be fulfilled as well (see p. 24).*

### **INST Course/Approved Substitution**

INST 130..... PSYC 100

INST 170..... MCOM 270, SOCL 260

INST 180..... Philadelphia Center, SOCL 190 or SOCL 260

INST 250..... PHIL 100, PHIL 200, or PHIL 210

INST 260 ..... PHIL 260, RELG 140, RELG 150, RELG 210, RELG 220, RELG 230, RELG 300 or RELG 310



INST 270..... ENGL 230, ENGL 231, ENGL 232, ENGL 233, or ENGL 234

INST 300..... ENGL 350

INST 310..... \*ART 220, \*ART 230 or \*ART 240 (see note below)

INST 320..... \*\*MUSC 335 or \*\*MUSC 338 or \*\*MUSC 339 (see note below)

INST 330..... \*\*\*THR 351, 352, 353 (see note below)

INST 340..... CHEM 220

INST 350..... ENST 101, L SC 225

INST 360..... PHYS 210

INST 380..... RELG 100, RELG 270, RELG 290, RELG 340, RELG 350 or  
RELG 360

INST 400..... E SC 201, E SC 202, E SC 205 or E SC 302

\*Art majors must take INST 320, INST 330 or their substitutes — **not** ART 220/230/240

\*\*Music majors must take INST 310, INST 330 or their substitute — **not** MUSC 335/338/339.

\*\*\*Theatre majors must take INST 310, INST 320 or their substitutes — **not** THR 351/352/353.

### **Integrative Studies Courses (INST)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

## **FRESHMAN REQUIREMENTS**

### **Writing — Required/Choose one; 5 hrs**

Each option meets the freshman writing requirement and aims to develop skills needed in an academic community: to see an issue from more than one viewpoint, to support conclusions with evidence from texts, and to write expository prose. Composition includes personal responses and thesis papers. *Honors students must register for an Honors Section of INST 100, 105, or 110.*

#### **INST 100 FRESHMAN SEMINAR**

**5 hrs**

Each seminar uses the approach of one or more disciplines to explore a different topic related to the theme of human nature. Topics in the past have included Food for Thought, Twenty-First Century Sounds, Death and Dying, Consumerism in America and Art, and the Arts Alive and Well.

#### **INST 105 GROWING UP IN AMERICA**

**5 hrs**

This course examines the ways historical and social developments of the twentieth and twenty-first centuries have shaped our lives. Readings are drawn from history, literature, sociology and other disciplines. Films, lectures, music and art supplement the readings.



**INST 110 COMPOSITION AND LITERATURE: THE INDIVIDUAL AND SOCIETY**

**5 hrs**

This course examines the relationship between individuals and their societies through the lenses of literature. Readings include short stories, novels, poetry, plays and creative nonfiction. The readings develop themes such as growing up, women and men, money and work, peace and war, and varieties of protest. Thematic selections are chosen primarily from recent American and British literature, including works from a variety of contemporary ethnic traditions.

**Social Sciences — Required; 5 hrs**

**INST 150 ISSUES IN THE WESTERN EXPERIENCE**

**5 hrs**

A study of how the past shapes the issues confronting individuals and societies today. Explores ideas and institutions of past and present Western societies in the context of cultural traditions and values, political systems, economic conditions, and social structures. Students learn to explore the interactions between past, present, and future as they examine major themes such as justice and freedom, faith and reason, war and nationalism.

**Social Sciences — Required/Choose one; 5 hrs**

The social sciences requirement explores the methods and theories of psychology, sociology, anthropology, and political science to study human beings. Each option teaches students how to ask (and sometimes answer) important questions about human nature, encourages students to value the diversity of human beings and societies in the world, uses an historical approach, and emphasizes how the social sciences apply to individuals and society.

**INST 120 CIVIC ENGAGEMENT AND POLITICAL LIFE**

**5 hrs**

This class will focus on integrating the information, skills, and concepts necessary to provide each student with the tools to engage actively in the public sphere and political life from the local to the global level. While we often think of voting as the primary way we can become involved in politics, this course will investigate what it means to be a citizen and why politics seems to be part of our human nature. Intrinsic to our role as citizens is active participation which will take the form of service-learning in this course.

**INST 130 PSYCHOLOGY AND HUMAN NATURE**

**5 hrs**

A study of the human being from a range of psychological perspectives. Acquaints students with the philosophies, theories, methods, and major findings of psychology and encourages students to explore the relationships between psychology and other disciplines. Small-group discussions allow for elaboration of classroom material. *Required for teacher licensure and Nursing majors.*

**INST 160 WORLD GEOGRAPHY AND HUMAN SOCIETY**

**5 hrs**

A study of the relationship between *where* people live and the *way* they live. Topics, drawn from historical, economic, cultural, medical, and political geography, include



the geography of economic development, world population patterns, changing natural environments, and the geography of politics. Students learn to use maps as tools for comprehending the world.

### **INST 170 INEQUALITY IN CONTEMPORARY AMERICAN SOCIETY**

**5 hrs**

A study of the influence identity, power, and change have on everyday life in contemporary America, with emphasis on social hierarchies based on race, class and gender. Students observe their social environment through the use of tools, concepts, and perspectives of sociology. Focuses on how social inequalities affect people, how individuals cope with social inequality, and how they attempt to improve their place in society.

### **INST 180 ENCOUNTERING CULTURAL SYSTEMS**

**5 hrs**

A study of human beings within cultures and the tools for studying cultures other than our own, both Western and non-Western. Provides students with a perspective from which to understand both their own and other cultures and a basis for examining crucial human concerns. Brings together political science and economics in the context of sociology and cultural anthropology.

## **SOPHOMORE REQUIREMENTS**

**Natural Sciences — Optional; 5 hrs**

**This course plus 1 upper level INST Natural Science course fulfills the INST Natural Sciences requirement.**

### **INST 240 SCIENTIFIC THINKING AND DOING, AN INTERDISCIPLINARY APPROACH, TOPICS TO BE ANNOUNCED**

**5 hrs**

For sophomore students: An interdisciplinary introduction to scientific thought and practice. Topics vary among sections but share the common themes of the scientific method, "hands-on" inquiry based laboratory experiences, and critical thinking. The course is team-taught emphasizes how various scientific disciplines contribute to the solution of scientific questions, especially the question of human nature. In combination with the upper level INST science courses which emphasize societal and ethical aspects of science, the science INST requirement seeks to promote scientific literacy. Students who take this course will only need one upper level I S Science. *Prerequisite: Sophomore standing or permission of instructors.*

**Religion/Philosophy — Required/Choose one; 5 hrs**

This requirement focuses on human nature from the perspectives of the Christian faith and of several western philosophical traditions. Each option aims to acquaint students with the Hellenistic, Hebrew, and Christian heritages of western culture, to encourage students to be historically informed, to promote self-understanding in relation to one's own tradition and culture, and to sharpen skills in reading for comprehension, critical thinking, and oral and written communication.



**INST 250 PHILOSOPHY AND HUMAN NATURE**

**5 hrs**

An examination of the philosophical problems arising from the attempt to understand human nature, such as: free will and the possibility of determinism; the nature of the self and survival after death; the nature of justice; the nature and foundations of morality; the nature of the good life; and the implications of the existence of (and of various conceptions of) God. Course requirements include a writing component.

**INST 260 HUMAN NATURE IN THE CHRISTIAN TRADITION**

**5 hrs**

An examination of the human condition from the perspectives of the Christian tradition, including the Hellenistic and Hebraic backgrounds of the Pauline-Augustinian doctrinal mainstream and interpretations' growing from that theological mainstream. Uses the perspective of biblical theology to study themes such as creation and human origin, image of God, sin, the problem of evil and suffering, freedom of the will, salvation, community, sexuality, death and immortality. Course requirements include a writing component.

**Writing — Required; 5 hrs**

**INST 270 COMPOSITION AND LITERATURE: RELATIONSHIPS AND DIALOGUES**

**5 hrs**

The intermediate course in the writing sequence; stylistically and thematically complex readings present views of relationships, love and romance, marriage and partnerships in literary and other texts from classical times to the present, including works from a variety of cultures. Composition builds on the expository skills developed in freshman courses and emphasizes analysis and comparison/contrast. *Prereq: credit for INST 100 or 105 or 110. Honors students must register for an Honors section.*

**Social Science — Required for PACE majors where indicated; 5 hrs**

**INST 290 ECONOMICS AND SOCIETY**

**5 hrs**

The course examines the fundamental principles of both micro- and macro-economics in the context of their effects on individuals and societies. Topics covered include: scarcity and opportunity cost, demand and supply, elasticity, market structures and market failures, national income determination, inflation, unemployment, fiscal and monetary policies, and international economics. The course uses the principles of economics to explore human and social themes such as poverty, income distribution, economic discrimination, crime, education, and environmental degradation. *Open only to Continuing Studies students pursuing one of the B.A. degrees in Liberal Studies. Does not fulfill any I.S. requirement for other students.*

**JUNIOR AND SENIOR REQUIREMENTS**

**Please Note:** *Students must take the freshman and sophomore level requirements before enrolling in the junior and senior level requirements.*



**Writing — Required; 5 hrs****INST 300 COMPOSITION AND LITERATURE: THE DILEMMA OF EXISTENCE****5 hrs**

The culminating course in the writing sequence; longer and more advanced readings respond to the great concerns of human existence: good and evil, justice and injustice, community and alienation, life and death. The course focuses on authors central to the European tradition such as Sophocles, Dante and Shakespeare. However, readings also include contemporary writers and writers outside of the European tradition. Composition builds on skills developed in the freshman and sophomore courses and emphasizes synthesis. *Prereq: credit for INST 270 and 90 quarter hours completed.*

**Fine Arts — Required/Choose one; 5 hrs**

This requirement aims to present students with the nonverbal means which human beings have used to express their needs, desires, perceptions, and values. Each option explores the nature of a particular art form, its historical role in society, its connections to the other arts, and its insights about human nature. Special attention is also paid to the nature of artistic creativity.

**INST 310 ART FORMS: IMAGES AND IDEAS****5 hrs**

An examination of how the processes and products of the visual arts embody human nature. Students will consider the nature of artistic creativity and the role of the artist in society, view significant visual art objects, and learn about artistic production through the perspective of history. Although the course emphasizes the development of Western art, students will also view works reflecting the rich heritage of art throughout the world. *Art majors must register for INST 320, INST 330, or an INST 320 or 330 approved substitute.*

**INST 320 MUSIC AND HUMAN NATURE****5 hrs**

An introduction to the Western European concert music tradition from the listener's viewpoint, emphasizing music's relation to the human being and society. Students learn the vocabulary for discussing the basic elements of music, practice listening skills, and use an historical approach to become familiar with principal stylistic eras. Course requires attendance at music events outside the classroom. *Music majors must register for INST 310, INST 330, or an INST 310 or 330 approved substitute.*

**INST 330 THEATRE AND HUMAN NATURE****5 hrs**

This course investigates the process of creating theatre and explores the ways in which theatre artists use the medium to reflect, celebrate, and challenge the human condition. Plays that wrestle with important social and moral issues will be analyzed and debated. Course requires attendance at theatre events outside the classroom. *Theatre and musical theatre majors must register for INST 310 or INST 320 or an INST 310 or 320 approved substitute.*



**Natural Sciences — Required/Choose two  
(choose one if take INST 240); 10 hrs**

This requirement focuses on developing an understanding of human nature from a scientific perspective and on promoting scientific literacy. Scientific literacy consists of: a familiarity with the scientific method; an understanding of science as a way of knowing the world; an appreciation of the breadth of scientific inquiry; an awareness of how science affects contemporary life; the exploration of connections between the sciences and other disciplines; and the ability to think critically and quantitatively. Each option seeks to discourage anti-science attitudes, to decrease science anxiety, and to promote stewardship of the Earth.

**INST 340 CHEMISTRY AFFECTS OUR LIVES**

**5 hrs**

Studies of the benefits and risks of chemical processes. Focuses on the society/science interface from perspectives of the economy, physical health, ethics, and culture. Discussion groups allow for elaboration of classroom material.

**INST 350 BIOLOGICAL SCIENCE: BEING IN NATURE**

**5 hrs**

A presentation and discussion of some economic, health, ethical and cultural concerns from the viewpoint of life science. Uses the study of the biological human, the place of humans in the ecosystem, and the effect of changing environments (e.g. rural to urban) on human beings to explore the theme of being in nature. Students must complete several laboratory and field experiments.

**INST 360 ENERGY, SCIENCE AND SOCIETY**

**5 hrs**

A study of the role of energy in our lives. Discussion of the physics of energy precedes a look at its uses, consequences for humanity, and the impact on resulting energy and environmental policies. Course requirements include a writing component.

**INST 400 EARTH SCIENCE AND HUMANKIND**

**5 hrs**

A study of the impact of earth science upon human life, and of human life upon the physical Earth, including volcanoes, earthquakes, water and energy resources, pollution, deforestation, and global change such as global warming. Students use essays, debates, and discussion groups to practice written and oral communication skills.

**INST 410 OUR PLACE IN THE UNIVERSE**

**5 hrs**

A study of the evolving human understanding of the universe and our place in it through the study of astronomy. Places the explorations of modern astronomy in the historical context. Students participate in several observational and experimental activities. Course requirements include a writing component.

**Global Perspectives — Required/Choose one; 5 hrs**

This requirement focuses on human nature from a variety of global perspectives and academic disciplines. Each option aims to broaden student's awareness of and appreciation for different ways human beings understand themselves and



the purpose of life, as well as different cultural beliefs and practices. The options encourage students to make connections across disciplines and to continue to shape their own beliefs and values in light of other cultural points of view. These courses focus on cultures originally outside of European traditions and may include an emphasis on their interaction with those traditions.

**INST 380 HUMAN NATURE IN WORLD RELIGIONS AND PHILOSOPHIES**

**5 hrs**

An examination of human nature from the viewpoint of several Asian religions and philosophies. Designed as a complementary sequel to INST 250 or INST 260, the course deals with basic questions about the purpose and meaning of life and the nature of the Ultimate or God. Topics include views of reality, definitions of human nature, the nature of right and wrong, the causes of evil and suffering, paths of salvation, and the interdependence of religion and culture. Course requirements include a writing component.

**INST 381 ASPECTS OF WORLD MUSIC**

**5 hrs**

A view of human nature through the lens of the world's music. Connections between music and society in cultures chosen from the following—Native America, Africa, Black America, Eastern Europe, the Indian Subcontinent, Japan, Indonesia, and South America—will be studied outside the context of the Western European concert music tradition. Students develop a vocabulary for describing each culture's music and a set of approaches for studying music in a sociocultural context. Course requirements include a written project and attendance at music events outside the classroom.

**INST 382 AFRICAN CULTURES AND COLONIALISM**

**5 hrs**

A study of African cultures, with emphasis on selected geographic areas and ethnic groups. Focuses on cultural encounters, their effects, and the relationship of culture to human nature by examining precolonial African civilization, the world view of colonizers, the impact of Western colonialism on Africa, and the African recovery of independence. Exploration of several perspectives is encouraged through the use of several disciplines (chosen from among history, literature, religion, political science, sociology, economics, and the arts). Course requirements include a writing component and a final project that requires synthesis.

**INST 383 MODERN INDIAN CULTURE AND LITERATURES**

**5 hrs**

This course uses literature as a major, though not the sole means, to introduce students to modern India after its independence in 1947. The course is interdisciplinary in approach. Literary readings are put in context by using two other focal points, India's religions such as Hinduism, Islam and Buddhism, and its experience of colonization by the British to understand its varied and complex present-day culture but also to compare it to their own. It seeks to show students how such a comparative exploration can help one gain a deeper understanding of one's own culture and individuality as well as better understand human nature.



**INST 384 APPROACHING JAPAN THROUGH ITS ARTS**

**5 hrs**

This team-taught course begins with the premise that Japan is a nation whose post-modern, high-tech exterior clothes a deeply traditional civilization, divergent in some ways from Euro-American experience and values. Students will approach Japan by encountering the visual arts, music, literature, cinema, language, and athletic traditions. They will seek an understanding of common themes, motives, and forms that indicate in Japanese perceptions of the world and of human nature. Course requirements include a final written project and attendance at events outside the class meeting time.

**Internship — Optional**

**INST 490 INTERNSHIP**

**1-15 hrs**

Internship associated with the Integrative Studies Symposium designed by the intern and the Symposium chairperson through a learning contract process. *Registration must be approved by the chairperson of the Integrative Studies Program.*



# Senior Year Experience

*Shively (program director), members of other college departments, and selected individuals from the wider community*

Designed for seniors, SYE asks students to shift their framework: from depth to breadth, from student to citizen, from security to transition. SYE adds value to or “tops off” the entire Otterbein education. It’s a space in the curriculum that allows students to think about and *use* the college education they’ve spent so much time and effort acquiring.

## Mission and Goals

The Senior Year Experience’s mission is to provide a curricular program designed specifically for seniors to experience the complexities of citizenship. In an interdisciplinary setting, students will be asked to confront contemporary issues and apply the knowledge they have learned in their majors and in Integrative Studies.

Students in all SYE courses and options should learn to:

- analyze and engage with complex *contemporary issues*, issues for which the liberal arts graduate is expected, by society, to provide leadership.
- apply the *skills of synthesis* by drawing from multiple disciplinary bases and by developing a “big picture” from diverse perspectives.
- use an *interdisciplinary approach* to reasoning that recognizes the strengths and limits of different disciplines.
- engage in *active self-reflection*, giving conscious attention to *ethics, personal values, and citizenship* including their roles and responsibilities as educated persons, professionals, and citizens.
- *integrate learning*, bringing together what has been learned in core courses and in major and elective courses to confront a contemporary issue.
- engage in social and intellectual *interaction with the wider community beyond Otterbein*; and
- reflect on their *liberal arts education, its purposes, and its uses*.

Students can meet their SYE requirement through 1) team-taught 5-credit hour interdisciplinary SYE courses; 2) departmental offerings that include SYE components and have been approved by the SYE Committee; or 3) SYE offerings tied to off-campus, immersion, internship, or individualized experiences. Because the options meeting this requirement vary from year to year, they are listed annually in registration materials available in the Registrar’s Office, and on CardinalWeb for Students. Because effort is made each year to offer SYEs across a range of interests and learning types, seniors should familiarize themselves with all SYE materials and meet with their advisor before carefully choosing and registering for their SYE. *Students must have completed 135 credit hours and seven of ten Integrative Studies courses before taking the SYE requirement. Some options may have additional prerequisites; check individual course descriptions. The SYE requirement must be taken in residence.*



Students in all SYE options can expect to work toward the following goals:

- 1) analyze and engage with complex *contemporary issues*, issues for which the liberal arts graduate is expected, by society, to provide leadership;
- 2) practice the *skills of synthesis* by drawing from multiple disciplinary bases and by developing a “big picture” from diverse perspectives;
- 3) use *interdisciplinary materials and methods* and begin to recognize the strengths and limits of their own and other disciplines;
- 4) practice *active self-reflection*, giving conscious attention to *ethics, personal values, and citizenship*, including their roles and responsibilities as educated persons, professionals, and citizens;
- 5) practice the *integration of learning*, bringing together what has been learned in core courses and in major and elective courses to confront a contemporary issue;
- 6) engage in social and intellectual *interaction with the wider community beyond Otterbein*; and
- 7) reflect on *liberal arts education, its purpose, and its uses*.

### Senior Year Experience Courses (SYE)

New team-taught interdisciplinary courses are being created and developed all the time, so specific SYE course offerings vary from year to year. Courses have included:

Community, Leadership and Change in Non-Profit and Social Service Organizations

Toward Peace with Justice: Living and Leading in Community (service-learning option)

Free Choices? Making Choices in a Free Enterprise Society

1900-Vienna-2000 (with travel to Vienna)

Media and the Law

Naked, Communist, and Sober: The Search for Utopia

The Face of AIDS

Inventing the Self and the Future

Global Citizenship: Issues and Problems for the 21st Century

September 11th and After

Africa (with travel to an African country)

The following SYE options are offered regularly:

#### **SYE 475.10 and 475.20 OFF-CAMPUS STUDY**

**1 hr each**

Students who participate in an approved Off-Campus Study program may enroll in two sequential SYE 475 courses in order to meet the SYE requirement for graduation. *Specific requirements and guidelines are available from the Director of International Student Programs, Hanby Hall 121.*

#### **475.10 OFF-CAMPUS STUDY- PREPARATION**

**1 hr**

Students will enroll in this section the same quarter they study off campus. Before leaving campus, students will locate a member of the faculty willing to serve as a mentor for their project. Students will prepare and submit a proposal describing



a complex contemporary issue they wish to study, along with a working bibliography, to the SYE off-campus committee. Preliminary reading of items on the bibliography and personal interviews with knowledgeable people are part of the preparation for the SYE Off-Campus Study. During and after the off-campus study experience, students will continue the reading, research, and interviews. Students will keep a journal while off campus and compile a research folder to submit to their faculty mentor upon return to campus. The mentor will issue a pass/fail grade before the students can proceed to SYE 475.20. *Prereq: Junior or Senior standing. Coreq: study off campus during the junior year, the summer before the senior year, or the first quarter of the senior year.*

#### **475.20 OFF-CAMPUS STUDY – PROJECT**

**1 hr**

Submission of a personal research essay based on the information acquired during SYE 475.10 and a public presentation of the project to the SYE Committee will complete the SYE requirement. The SYE off-campus committee for each student will issue a grade for the project based on the quality of the personal research essay and the public presentation, both of which must be completed before the end of the ninth week of the quarter before the quarter the student intends to graduate. *Prereq: A pass grade in 475.10 and senior standing, together with an approved off-campus study program taken during the junior year, the summer before the senior year, or the first quarter of the senior year.*

### **SYE 490 MANAGING TRANSITIONS TO THE FUTURE:**

#### **THE SYE INTERNSHIP SEMINAR**

**2 hrs**

This interdisciplinary course, which meets for 90 minutes weekly, is designed to accompany a senior-level, 10- to 15-credit hour internship in the student's home department. The course focuses on the transitions to life after college, examining strategies for success in both work and life outside the organization. Topics for discussion include: strategies for success in organizations, organizational culture and assimilation, the organization and society, life after work, and integrating the college experience. *Required: Corequisite is enrollment in a departmental internship of at least 10 hours credit.*

*Note: Students whose internships are taken outside the Central Ohio area or who cannot attend the seminar, must take the seminar in the quarter following their internship. These students must contact the instructor(s) of the SYE Internship Seminar and obtain permission to do so prior to the quarter in which the internship is taken. These students will be required to complete a detailed journal, including specific assignments related to the course content, during their internship.*

#### **SYE 495 INDIVIDUALIZED SYE**

**2-5 hrs**

This option provides flexibility in meeting the Senior Year Experience requirement for a student who has set a goal which does not fit within the present SYE options of SYE courses, SYE Internship Seminar, SYE Off-Campus Study, the Honors Program, or departmental offerings that include SYE components. A proposal for an individualized SYE, which requires the approval of both the SYE Committee and the Curriculum Committee, must adhere to strict guidelines in accordance with the requirements for other SYE options. *Students interested in designing an individualized SYE should*



*pick up the Individualized SYE Guidelines from the SYE program director early in their junior year.*

Students in teacher education, athletic training, music performance, theatre, or honors should see their department chairperson or program director for more details about their specific SYE options. In addition, Continuing Studies students may want to enroll in an SYE designed for them. Several courses have sections indicating Continuing Studies enrollment (ex.: SYE courses designated 1C).



# Honors Program

*Laurie-Rose (program director), members of other college departments, and selected individuals from the wider Otterbein community*

The Honors Program at Otterbein College is a four-year course of study that provides intellectual stimulation and challenge for students with high academic ability and strong personal motivation. The program provides the opportunity for students to pursue independent research and creative goals within a community of fellow students and faculty who share their sense of commitment. By completing the Honors curriculum and the Honors thesis, students gain advanced knowledge in research and writing, explore the nature of inquiry across disciplines, and acquire the experience and skills essential for independent work in areas of their own academic and professional interest.

## **Eligibility**

Students can earn eligibility for the Honors Program in several ways and at several points in the freshman and sophomore years. Entering freshman students can join the program if they meet one of the following sets of criteria: sufficiently high ACT scores and high school class ranking; or sufficiently high SAT scores and high school class ranking; or acceptance to Otterbein as a Designated Presidential Scholar.

Entering students who do not meet the above criteria may request entrance into the program based upon partial qualifications and faculty recommendations. Students can receive information about eligibility from the Honors Handbook and from the Director. To complete the Honors Program students must maintain a GPA of 3.5.

## **Opportunities**

The Honors Program provides students with diverse opportunities throughout their college education. Freshman students can live in Honors Housing within the dormitories. Sophomores and juniors are eligible to live in the independent Honors House. The Honors program sponsors on-campus events and travel away from campus, including visits to significant cultural events and locations.

As a part of the Honors program of study, all Honors students in good standing are eligible to participate in the Oxford Study Abroad Program (OSAP). Courses taken through OSAP give Honors students the opportunity to prepare in Oxford, England for their senior thesis work. Under the direction of Oxford tutors, students design and complete tutorials in their areas of disciplinary and research interest. The Honors Program recommends that students who wish to study at Oxford enroll with OSAP for the spring quarter of their junior year. Students wishing to enroll with OSAP for a different quarter can do so in consultation with the Honors Director.



## **Honors Program Courses (HNRS)**

### **Freshman and Sophomore Requirements**

*INST 100-H or 105-H or 110-H*

*INST 270-H*

Freshmen and sophomore students meet with their peers in Honors sections of the Integrative Studies writing seminars. The freshman and sophomore writing courses create many opportunities for students to interact with each other and to develop the skills of analysis and composition necessary for independent thesis work. They offer an intellectually rigorous learning experience that includes diverse reading materials, the promotion of a high order of skills for projects and assignments, and the creation of peer group activities that place increasingly greater responsibility on students for self-assessment and independent research.

### **Junior Requirement**

*HNRS 305*

The Junior Honors Seminar is a year-long, five credit hour course that begins in the fall quarter. In the Junior Seminar, students explore the nature of research and inquiry across disciplines and write proposals for their Honors thesis projects. Members of the Honors Committee lead the seminar and the content of the course reflects the diverse interests of the committee. All students who intend to graduate with Honors must register for the Junior Seminar.

### **Senior Year Requirement**

*HNRS 405*

Having designed their Honors theses in the junior year, Honors students devote the entire senior year to completing their thesis projects. Completion of the Honors thesis allows students to achieve independent scholarly or creative goals within their own academic or professional fields and confers on them a unique sense of accomplishment.

The Honors student will determine the subject, nature, and length of the thesis project in consultation with the faculty thesis advisor. All thesis projects require the writing of a final paper.

To receive the five Honors credit hours for the thesis project, students must enroll for Honors 405. The designation, Honors 405 refers to the student's independent thesis work and to the student's attendance at mandatory meetings organized by the Honors Director to discuss thesis progress, Senior Reporting Day, and Honors graduation.



### ***Policy on AP and Transfer Credit***

If a student has received AP or transfer credits for either the freshman or sophomore course, that course will be waived from the Honors requirements. If a student has received AP or transfer credit for both courses, the Honors requirement for one course will be waived, but the student must apply to the Honors Director for a waiver of the Honors requirement for the second course.

### ***Policy on Substitutions***

1. There are no approved substitutions for INST 100-H/105-H/110-H, INST 270-H or HNRS 305.
2. English Majors may substitute ENGL 460 for HNRS 405.

### ***Policy on Senior Year Experience***

The combined work that is required for the Junior Honors Seminar and the Senior Honors Thesis fulfills the Senior Year Experience requirement, which is required of all Otterbein students.



# Academic Support Center

Kasulis (director), Biancamano, Kengla, Monaghan

## Mission and Programs

The Academic Support Center's mission is to provide a variety of academic support services for students to help them realize their desired educational and career goals. We strive to assist students in recognizing and building on their strengths as well as learning how to overcome or compensate for their weaknesses. Through developmental courses, peer tutoring and professional tutoring, individual instruction, collaborative learning, and counseling, the ASC works with students at all academic levels, including those who are under-prepared or struggling academically to acquire the requisite skills to be successful in all areas of academics. Working within the liberal arts tradition, the ASC program teaches students to be both critical and creative thinkers, to work cooperatively to achieve their goals and to challenge themselves academically both in and out of the classroom. The ASC is also charged with ensuring that all qualified students with disabilities have equal access to an education and campus life. This access is provided to students through the provision of legally mandated services, accommodations, and advocacy.

## Academic Support Center Courses (ASC)

### ASC 080 BASIC CONCEPTS IN MATHEMATICS

5 hrs

Pre-algebra and beginning algebra topics: arithmetic of real numbers and polynomials (including factoring); solving linear equations; graphing in two variables; applications and modeling. *Students required to take this course must complete it with a C- or better within four quarters of enrollment or face suspension/dismissal. ASC 080 and the next required level of pre-college algebra, MATH 090, do not count toward graduation in any degree program. Thus, students who have taken these two courses must complete at least 190 hours to graduate.*

### ASC 100 THE COLLEGE EXPERIENCE

2 hrs

An extended orientation course designed to help students adapt to their new environment - academically, socially and personally. *Prereq: By placement only.*

### ASC 105 INTENSIVE WRITING

5 hrs

This course emphasizes the development of writing skills and writing processes. Students will implement prewriting, drafting, and revising skills in the construction of various paragraphs and essay patterns. *Prereq: By placement only.*

### ASC 110 COLLEGE READING AND STUDY SKILLS

5 hrs

Designed to help students develop and enrich their communication skills. Emphasis on critical reading strategies and the application of study skills. *Prereq: By placement only.*

*Additional information regarding the Academic Support Center may be found in the Academic Support Programs section of this catalog.*



# American Sign Language

Students who have previous signing experience are required to take a placement exam before enrolling in ASL courses.

Providing you are eligible to transfer coursework to Otterbein (see Transfer Credit Policy, p. 304), American Sign Language courses beyond ASL 120 may be pursued by enrolling as a visiting student in the Interpreting/American Sign Language Education Program at nearby Columbus State Community College (CSCC). In many cases both the admission application process and the tuition are waived through a special cross registration program with which Otterbein and Columbus State are affiliated. To determine eligibility to cross register and to transfer CSCC courses to Otterbein, schedule an appointment with Otterbein's Registrar.

Otterbein offers a minor field in **Language and Culture of the Deaf Community**. The minor will allow students to acquire the foundations of a visual and gestural language, gain significant knowledge of the Deaf community, and examine principles of visual and linguistic processing in psychology and culture.

Students who have questions about the individual courses, course substitutions, course waivers or the minor should contact Dr. Louis Rose in the History Department.

## American Sign Language Courses (ASL)

### ASL 100 AMERICAN SIGN LANGUAGE I

5 hrs

ASL 100, 110 and 120 introduce students to this American visual/gestural language. Students will learn basic vocabulary, grammar, and sentence structure of American Sign Language, be exposed to the history, culture and literature of the hearing-impaired community, and understand the terminology and technology associated with hearing loss. *This series may not be used to meet the B.A. or B.S. degree foreign language requirement.*

### ASL 110 AMERICAN SIGN LANGUAGE II

5 hrs

A continuation of ASL 100. *Prereq: ASL 100 or permission of instructor.*

### ASL 120 AMERICAN SIGN LANGUAGE III

5 hrs

A continuation of ASL 110. *Prereq: ASL 110 or permission of instructor.*

## Minor in Language and Culture of the Deaf Community

*Required (at least 28 total hrs):*



**ASL Courses** (take all three)

- |   |       |
|---|-------|
| <input type="checkbox"/> ASL 100 American Sign Language I   | 5 hrs |
| <input type="checkbox"/> ASL 110 American Sign Language II  | 5 hrs |
| <input type="checkbox"/> ASL 120 American Sign Language III | 5 hrs |

The following three courses taken at Columbus State may be substituted for the ASL 100/110/120 requirement:

- |  |       |
|--|-------|
| <input type="checkbox"/> ITT 143 American Sign Language III* | 5 hrs |
| <input type="checkbox"/> ITT 144 American Sign Language IV*  | 5 hrs |
| <input type="checkbox"/> ITT 145 American Sign Language V*   | 5 hrs |

\*Columbus State ASL levels III, IV, V will be considered as ASL elective credit at Otterbein.

**Linguistics** (choose one)

- |   |       |
|---|-------|
| <input type="checkbox"/> ENGL 295 Linguistics                           | 5 hrs |
| <input type="checkbox"/> EDUC 170 Phonics and the Structure of Language | 5 hrs |

The following course taken at Columbus State may be used to fulfill the Linguistics requirement:

- |   |       |
|---|-------|
| <input type="checkbox"/> ITT 150 Linguistics of ASL | 3 hrs |
|---|-------|

**Electives** (choose two)

- |   |       |
|---|-------|
| <input type="checkbox"/> PSYC 230 Psychology of Learning                  | 5 hrs |
| <input type="checkbox"/> PSYC 305 Psychology of Perception                | 5 hrs |
| <input type="checkbox"/> PSYC 310 Cognitive Psychology                    | 5 hrs |
| <input type="checkbox"/> EDUC 220 Psychology Applied to Primary Education | 5 hrs |

The following course taken at Columbus State may be used to help fulfill the above Elective requirement:

- |   |       |
|---|-------|
| <input type="checkbox"/> ITT 111 Introduction to the Deaf Community | 5 hrs |
|---|-------|

**Residence Requirement:**

- |  |
|--|
| <input type="checkbox"/> Must be fulfilled by all transfer students (see p. 24). |
|--|



# Art

Austin (chairperson), Bowling, Cochran, Hill, Johnson, Marsh, Nees, J. Stichweh, D. Stichweh.

## Mission and Program

The mission of the Art Department is to offer studio and art history programs linked to the College's liberal arts foundation, preparing graduates for a variety of professional options. Additionally, the department is committed to offering visual arts courses that complement the liberal education of all students at Otterbein.

At Otterbein, art students create in an environment of inquiry. Faculty seek to introduce students to an understanding of the artistic process and encourage them to commit themselves to the creation of meaningful works of art. Courses in art history provide an understanding of the historical and theoretical framework of the visual arts. Art students typically spend one-third to one-half of their time in art courses and are encouraged to link these studies to the diverse course experiences that a strong liberal arts curriculum offers. Opportunities to participate in study-abroad programs, internships, and trips to museums broaden experience and enhance visual awareness while opening possibilities for personal expression.

The Art Department coordinates an annual program of public exhibitions in the Miller and Fisher Galleries. These exhibitions explore a broad range of approaches to art, introducing the college community to the diversity of the art world. Many artists visit campus, presenting lectures and workshops in conjunction with their exhibitions. Each spring, graduating art students exhibit their work in the Miller Gallery.

The Frank Museum of Art provides a permanent exhibition space for the College art collection. The collection includes African pottery, sculpture, and textiles; Japanese prints, sculpture, and craft objects; and pottery and masks from New Guinea.

## B.A. degree with a major in Art

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13, INST 320 or 330 must be selected)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (47 or more hrs):*

- ☐ Art 105 - 5 hrs
- ☐ Art 110 - 5 hrs
- ☐ Art 115 - 5 hrs
- ☐ Art 220 - 5 hrs
- ☐ Art 230 - 5 hrs
- ☐ Art 240 - 5 hrs
- ☐ Art 401 - 2 hrs
- ☐ a concentration of at least 3 courses chosen in consultation with an Art Department adviser - 12 to 15 hrs; concentration areas include ceramics, computer art, drawing, painting, photography, printmaking, sculpture and visual communication; the concentration is not required of students who complete the art education requirements for Visual Arts teacher licensure
- ☐ a total of at least 45 hrs of ART with at least 15 hrs at 300/400 level



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

• A minimum grade of "C" must be achieved in the following required courses for the Art Major:

ART 105 Drawing 1

ART 110 Design 2D

ART 115 Design 3D

ART 220 Art History (Ancient)

ART 230 Art History (Medieval, Renaissance, and Baroque)

ART 240 Art History (Modern)

ART 401 Senior Exhibition Practicum

In Addition, a minimum grade of "C" must be achieved in the sequence of three courses selected as a concentration. If a grade lower than "C" is earned in any of these courses, the course must be repeated. Should that course be a prerequisite for subsequent coursework, the student must earn a grade of "C" or better in the prerequisite course before continuing with the subsequent coursework.

• Every art major will participate in a student/faculty conference in the spring term of the freshman year. Department of Art faculty will discuss the student's progress and plans for the coming year.

• Every art major will participate in a second-year portfolio review usually during the spring term of the sophomore year. The second-year review will occur after an art major has completed the three studio foundation courses and at least two additional studio courses. Art Department faculty will review the sophomore portfolio, identify areas of strength and areas needing improvement, and discuss future curricular goals.

• Every art major will participate in a senior exhibition as a part of the Senior Exhibition Practicum course.

## **Minor in Art**

*Required (at least 25 total hrs):*

☐ Art 110 - 5 hrs

☐ Art 220 or 230 or 240 or 250 or 260 - 3 to 5 hrs

☐ Remaining hours from any other ART courses

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).



## Minor in Arts Administration

*Required (all of these courses):*

- |   |  |
|---|--|
| <input type="checkbox"/> ART 135 - 5 hrs  | <input type="checkbox"/> ECON 210 - 5 hrs        |
| <input type="checkbox"/> ART 490 - 5 hrs  | <input type="checkbox"/> BADM 300 or 310 - 5 hrs |
| <input type="checkbox"/> ACCT 200 - 5 hrs | <input type="checkbox"/> BADM 340 - 5 hrs        |

- The capstone course for the Arts Administration minor is a departmentally-approved internship in Art, Music or Theatre depending upon the student's major. The minor must be for a minimum of 5 hours.
- MATH 115 and C SC 100-equivalent computer knowledge is a prerequisite to ACCT 200, and MATH 115 is also a prerequisite to ECON 210.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

## Minor in Art History

*Required:*

- ☐ ART 220 - 5 hrs
- ☐ ART 230 - 5 hrs
- ☐ ART 240 - 5 hrs

☐ Three courses from among ART 250, 260, 270 and 275 - 13-15 hrs; ART 275 is repeatable to 15 credits so taking the course three times, if desired, would fulfill this requirement.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

Requirements for students seeking **Visual Arts teacher licensure** are listed in the *Teacher Education Program* booklet available in the Education Department. Requirements for the art major and teacher licensure may differ somewhat, but both must be met to become licensed, and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

## Program Outcome

A successfully completed major in **Art** may qualify the student to apply for graduate study in studio art, art history, art education, or other arts-related professional programs. The B.A. degree with a major in art may qualify the student to work professionally in a variety of applied arts fields such as graphic design, photography, or gallery management; self-employment as an artist provides an additional option. Students who complete an education major and specified art courses may apply for multi-age teaching licensure.



## Art Courses (ART)

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### ART 105 DRAWING I

5 hrs

An introduction to drawing through observation, description, and interpretation. Exploration of basic compositional elements using a variety of drawing materials.

### ART 110 DESIGN 2D

5 hrs

Study of fundamental elements and principles of two-dimensional art and their application to problems of visual organization. Lecture and studio projects.

### ART 115 DESIGN 3D

5 hrs

Study of elements and principles of art as applied to three-dimensional work. Lecture and studio projects. *Prereq: ART 110 or permission of instructor.*

### ART 130 COLOR PRINCIPLES FOR THE ARTIST

3 hrs

An examination of topics such as color as energy, color and perception, and light and pigments: additive and subtractive color. Studio applications will include color interaction problems, additive and subtractive color mixing, and written analyses of three-dimensional color applications.

### ART 135 INTRODUCTION TO ARTS ADMINISTRATION

5 hrs

The foundation course for the arts administration minor, an examination of topics such as philanthropy and the arts, leadership and public policy issues in the arts, arts marketing, and common challenges facing all arts disciplines.

### ART 151 BEGINNING PHOTOGRAPHY

5 hrs

An examination of the fundamentals of digital photography emphasizing development of technical photographic skills, creative seeing, and visual expression. Students are encouraged to have their own digital cameras. Digital cameras can be rented for a \$15 fee.

### ART 210 DRAWING II

5 hrs

Intermediate work in drawing, with an emphasis on the human figure and composition. Exploration of various drawing media. *Prereq: ART 105 and 110.*

### ART 220 ART HISTORY (ANCIENT)

5 hrs

Survey of painting, sculpture and architecture from Paleolithic times to first century A.D. Emphasis upon the Western tradition.

### ART 230 ART HISTORY

#### (MEDIEVAL, RENAISSANCE, AND BAROQUE)

5 hrs

Survey of painting, sculpture and architecture from first century A.D. to 1850. Emphasis upon the Western tradition.



**ART 240 ART HISTORY (MODERN)****5 hrs**

Survey of Modern Art, European and American.

**ART 250 SURVEY OF GLOBAL ART****3 hrs**

Study of selected cultures with an emphasis on the role of art and its relationship to other aspects of life. Cultures may include Native Arts of the Americas, Africa and Asia.

**ART 251 INTERMEDIATE PHOTOGRAPHY****5 hrs**

An investigation of the historical significance, basic materials and processes, and aesthetics of traditional black and white (film based) photography. Technical and aesthetic assignments. Classroom and darkroom instruction. Students are encouraged to have their own 35 mm cameras. Cameras may be borrowed for a \$15 fee. *Prereq: ART 151.*

**ART 260 WOMEN ARTISTS IN HISTORY****5 hrs**

A chronological survey of the contributions which women painters and sculptors have made to the history of Western art from ancient times to present. An examination of the problems confronting women artists throughout history.

**ART 270 CONTEMPORARY ART HISTORY****5 hrs**

An exploration of topics in art from 1950 to the present such as conceptual, process and performance art. Art criticism, technology and art, and contemporary issues in design, photography, and architecture are possible topics. *Prereq: ART 240.*

**ART 275 THEMES IN 19<sup>th</sup> AND 20<sup>th</sup> CENTURY ART HISTORY:  
ART IN AMERICA****5 hrs**

An exploration of American art from the early 19<sup>th</sup> century through 1950. Course will address American artists' responses to modern life, examining topics such as westward expansion, urban growth, and immigration. The specific topics will change each year in a three-year cycle. *Repeatable to a total of 15 credits.*

**ART 290 ART IN ELEMENTARY EDUCATION****5 hrs**

Studio and theoretical work to provide insight into the relationship of art to various aspects of early elementary education. *Prereq: EDUC 160 and INST 130.*

**ART 292 ART METHODS AND MATERIALS FOR ELEMENTARY AND  
MIDDLE SCHOOL GRADES****5 hrs**

An introduction for prospective art specialists to the world of children's art. Studio and theoretical work will demonstrate the importance of the visual arts in the elementary grades and middle grades. Required for multi-age licensure in art. *Prereq: INST 130.*

**ART 305 SCULPTURE****5 hrs**

An introduction to the art and craft of making sculpture. Studio projects will include modeling, casting, and fabrication techniques including glass casting. Art historical and contemporary sculpture topics will be addressed. *Prereq: ART 115 or permission of instructor. Repeatable to a total of 15 credits.*



### **ART 310 ADVANCED DRAWING**

**5 hrs**

Advanced work in drawing; in-depth exploration of drawing processes exploring traditional and contemporary approaches. *Prereq: ART 210 or permission of instructor.*

### **ART 325 ILLUSTRATION**

**4 hrs**

Introduction to concepts of illustration, including concept generation, development of personal style and approach, and methods of linking text and image. Exploration of a variety of media. *Prereq: ART 105 or permission of instructor.*

### **ART 330 PAINTING**

**5 hrs**

Emphasis on structure, visual organization and the interaction between the artist and the work in progress. Study of historical and contemporary examples as they relate to students' paintings. *Prereq: ART 105 or permission of instructor. Repeatable to a total of 15 credits.*

### **ART 350 VISUAL COMMUNICATION I**

**5 hrs**

Study of typography, layout and production. Use of the design process (from thumbnails to mechanicals) to solve graphic design problems for a variety of formats. Introduction to the history of visual communication. *Prereq: ART 105, 110 and 115 or permission of instructor.*

### **ART 351 ADVANCED PHOTOGRAPHY**

**5 hrs**

Work in three selected areas of photographic exploration: Digital Color, Black and White: The Fine Print, and Alternative Approaches: Breaking the Rules. Topics will be offered on a rotating basis. *Prereq: ART 151 and 251, or permission of the instructor. Repeatable to a total of 15 credits.*

### **ART 355 VISUAL COMMUNICATION II**

**5 hrs**

Continued work in typography, layout and production. Investigation of such design areas as corporate identity, *identity application*, and other comprehensive projects. Portfolio preparation. *Prereq: ART 350 or permission of instructor.*

### **ART 360 PRINTMAKING**

**5 hrs**

Introduction to printmaking and studio work exploring various printmaking processes. Focus on relief and intaglio processes. *Prereq: ART 105 and 110, or permission of instructor. Repeatable to a total of 15 credits.*

### **ART 365 PACKAGE DESIGN**

**5 hrs**

Exploration of the fundamentals of consumer package design and construction, including material use, surface graphics, and functional characteristics. Marketing and promotional problems are explored as well as environmental concerns. *Prereq: ART 355.*

### **ART 370 CERAMICS**

**5 hrs**

Introduction to handbuilding and wheel throwing processes, glazing and decorating, and firing procedures including raku. Emphasis on visual organization and expressive qualities of the ceramic form. *Prereq: ART 115 or permission of instructor. Repeatable to a total of 15 credits.*



**ART 380 COMPUTER ART****5 hrs**

An introduction to the Macintosh computer as a tool in image making. Exploration of Photoshop and other digital image manipulation and drawing programs. *Prereq: ART 105 and 110. Repeatable to a total of 15 credits.*

**ART 385 3D COMPUTER GRAPHICS AND ANIMATION****5 hrs**

This course is designed to give students a studio experience with 3D computer graphics and 3D animation techniques using the PC platform. Students will learn techniques and strategies for creating three-dimensional computer models, and creating 3D animations that illustrate a concept or tell a story. This course is applicable to all fields where visualization is needed to present an idea, illustrate a process, or tell an interesting story. It is especially advantageous to artists, teachers, and designers.

**ART 390 INDEPENDENT STUDY****1-5 hrs**

Independent study in art history or studio art. A proposal describing the specific project must be submitted and approved by the instructor prior to registration. *May be repeated for credit, pursuing a different topic.*

**ART 401 SENIOR EXHIBITION PRACTICUM****1 hr**

A practical experience in the professional design and installation of art exhibitions. Other professional preparation topics are also addressed. A required course for senior art majors to be taken during winter and spring quarters of the senior year. *Repeatable to a total of 2 credits.*

**ART 440 ADVANCED STUDIO PROJECTS****5 hrs**

Advanced work in one studio area, following completion of upper level courses offered in the chosen area, e.g. painting, drawing, ceramics. Exploration of media not covered in program courses is also possible. Projects to be developed in consultation with instructor. *Approval of instructor must be obtained prior to registration. Repeatable to a total of 15 credits in each medium.*

**ART 490 INTERNSHIP****1-15 hrs**

Internships are available to majors upon submission of a written proposal. They are arranged individually with design firms, museums, and corporations. The number of credit hours varies. *Approval from the Art Department must be granted before registering for the internship.*



# Black Studies

Washington (coordinator)

The **Black Studies minor** is coordinated by the History Department and provides an interdisciplinary approach to all undergraduate students interested in the Black experience. It offers critical perspectives on cultural, socioeconomic, and political realities of people of African descent in the United States and the Caribbean, and within Africa itself.

By developing a strong connection between academic work and community activities, the Black Studies program fosters intellectual and career development. Students will gain a detailed appreciation and understanding of diversity in contemporary society. Black Studies is part of a multicultural curriculum. This minor offers courses from a variety of fields as shown below.

## Minor in Black Studies

*Required (at least 30 total hrs):*

Required courses: (take all four)

- ☐ ENGL 230 - 5 hrs African-American Literature
- ☐ HIST 355 - 5 hrs African-American History
- ☐ SOCL 130 - 5 hrs Introduction to Black Studies
- ☐ SOCL 260 - 5 hrs Sociology of the Black Experience

Required electives: (choose remaining hours to equal 30)

- ☐ ART 250 - 3 hrs Survey of Non-Western Art
- ☐ ECON 440 - 5 hrs Economic Development and Growth
- ☐ EDUC 360 - 2 hrs Multicultural Education
- ☐ ENGL 334 - 5 hrs The Harlem Renaissance
- ☐ HIST 365 - 5 hrs African Business and Labor History
- ☐ PSYC 275 - 5 hrs Multicultural Psychology
- ☐ SOCL 210 - 5 hrs Social Problems
- ☐ SOCL 300 - 5 hrs Racial and Ethnic Relations
- ☐ SOCL 325 - 5 hrs Sociology of Family Diversity
- ☐ SOCL 360 - 5 hrs Dimensions of Black Intellectual Thought
- ☐ SOCL 380 - 5 hrs Urban Society

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

Descriptions of the Black Studies courses are listed under their respective home departments in this section of the catalog. Course prefixes (ENGL, HIST, etc.) and the home departments to which they are assigned are identified on p. 28.



# Business, Accounting and Economics

Volkmar(chairperson), Aristotelous, Bailey, Dennis, Eskew, Hasan, Huber, Mafi, Prindle, Ruparel, C. Smith, H. Smith, Whalen.

## Mission and Programs

The Business, Accounting and Economics Department seeks to provide a thorough understanding of business and economics concepts that will encourage our students to participate in an effective way in today's global business environment. The department offers B.S. and B.A. degrees in Accounting, Business Administration and Economics and a Master's degree in Business Administration. Within the undergraduate Business Administration major, students may select a concentration in Finance, International Business, Management, or Marketing.

## Program Outcomes

**Accounting:** This program of study prepares students to seek careers in general accounting, tax accounting, auditing, government accounting, business consulting, or to pursue graduate work in Accounting, Business and other related fields.

**Business Administration:** This program of study qualifies students to seek careers in business consulting, corporate management, sales, marketing, finance, banking, human resource management, international business, or to pursue graduate work in Business and other related fields.

**Economics:** This program of study prepares students to seek careers in consulting, business, banking, finance, government, or to pursue graduate work in Economics and other related fields.

## Accounting

A student may choose one of two majors in accounting - the **four-year major (Accounting)** or the **five-year major (Public Accounting)**.

If a student wants to become a CPA, he or she may *immediately* sit for the CPA examination with the **five-year major**. With the **four-year major**, the student must first obtain a score of 1800 on the Graduate Record Examination (GRE) to sit for the CPA examination. If students do not obtain a score of 1800, but want to become a CPA, they must complete a fifth year of course work at Otterbein, at another institution, or as part of a Master's program.

A recommended option for students seeking to become a CPA is to complete the four-year major at Otterbein, and enter into a Master's of Accountancy Program, or Master's of Business Administration (M.B.A.) in their fifth year. Otterbein has an M.B.A. program. Admission to the program is competitive and not guaranteed.

## B.A. or B.S. degree with a major in Accounting

Students planning graduate study in Accounting are advised to take BADM 310, 330, 420; ECON 220; and MATH 170.

Internships are recommended for all majors. Students planning to pursue an internship are recommended to take BADM 380.



*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p.13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (90 hrs or equivalent):*

- |  |   |
|--|---|
| <input type="checkbox"/> ACCT 200 - 5 hrs  | <input type="checkbox"/> BADM 350 - 5 hrs               |
| <input type="checkbox"/> ACCT 210 - 5 hrs  | <input type="checkbox"/> BADM 480 - 5hrs                |
| <input type="checkbox"/> ACCT 330 - 5 hrs  | <input type="checkbox"/> COMM 280 - 5hrs                |
| <input type="checkbox"/> ACCT 370 - 5 hrs  | <input type="checkbox"/> ECON 210 - 5hrs                |
| <input type="checkbox"/> ACCT 380 - 5 hrs  | <input type="checkbox"/> ENGL 335 - 5 hrs               |
| <input type="checkbox"/> ACCT 385 - 5 hrs  | <input type="checkbox"/> MATH 230 - 5 hrs               |
| <input type="checkbox"/> BADM 300 - 5 hrs  | <input type="checkbox"/> MATH 260 - 5 hrs (required for |
| <input type="checkbox"/> BADM 340 - 5 hrs  | B.A. degree only)                                       |
| <input type="checkbox"/> Additional Accounting - 15 hrs of any ACCT electives                                    |   |
| • For careers in auditing and internal accounting, additional recommended courses include ACCT 350, 420 and 430. |   |
| • For a career in managerial accounting, additional recommended courses include ACCT 310 and 350 and BADM 330.   |   |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

***B.A. or B.S. degree with a major in Public Accounting***

Students planning graduate study in Accounting are advised to take BADM 310, 330, 420; ECON 220; and MATH 170.

Internships are recommended for all majors. Students planning to pursue an internship are recommended to take BADM 380.

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (110 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> ACCT 200 - 5 hrs | <input type="checkbox"/> BADM 300 - 5 hrs |
| <input type="checkbox"/> ACCT 210 - 5 hrs | <input type="checkbox"/> BADM 310 - 5 hrs |
| <input type="checkbox"/> ACCT 310 - 5 hrs | <input type="checkbox"/> BADM 340 - 5 hrs |
| <input type="checkbox"/> ACCT 330 - 5 hrs | <input type="checkbox"/> BADM 350 - 5 hrs |
| <input type="checkbox"/> ACCT 350 - 5 hrs | <input type="checkbox"/> BADM 480 - 5 hrs |
| <input type="checkbox"/> ACCT 370 - 5 hrs | <input type="checkbox"/> COMM 280 - 5 hrs |
| <input type="checkbox"/> ACCT 380 - 5 hrs | <input type="checkbox"/> ECON 210 - 5 hrs |



- ☐ ACCT 385 - 5 hrs
- ☐ ACCT 410 - 5 hrs
- ☐ ACCT 420 - 5 hrs
- ☐ ACCT 430 - 5 hrs

- ☐ ECON 220 - 5 hrs
- ☐ ENGL 335 - 5 hrs
- ☐ MATH 230 - 5 hrs
- ☐ MATH 260 - 5 hrs

- It is recommended that a second major and an internship be taken as well.
- Students who complete this major may immediately sit for the CPA Examination

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

#### *Required total hours for the degree:*

- ☐ At least 225 (also see exceptions/additional comments on p. 24).

#### *Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **Minor in Accounting**

#### *Required (at least 25 total hrs):*

- ☐ All hours from among any ACCT courses.

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

## **Business Administration**

The **major in business administration** consists of 12 (for B.S.) or 13 (for B.A.) required courses and four additional business administration elective courses or concentration emphasizing a functional area of business administration.

### ***B.A. or B.S. degree with a major in Business Administration***

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (80 hrs or equivalent for B.S.; 85 hrs or equivalent for B.A.):*

#### **Core Courses:**

- ☐ ACCT 200 - 5 hrs
- ☐ ACCT 210 - 5 hrs
- ☐ BADM 300 - 5 hrs
- ☐ BADM 310 - 5 hrs
- ☐ BADM 340 - 5 hrs
- ☐ BADM 370 - 5 hrs

- ☐ ECON 210 - 5 hrs

- ☐ ECON 220 - 5 hrs

- ☐ ENGL 335 - 5 hrs

- ☐ MATH 230 - 5 hrs

- ☐ MATH 260 - 5 hrs (required for B.A. degree only)

- ☐ BADM 440 or 450 or 470 or 480 - 5 hrs

- ☐ COMM 280 - 5 hrs

- An internship is highly recommended.



• When pursuing an internship, it is recommended that BADM 380 be taken as well.

One of the following options is also required:

**1. Business elective area**

☐ 20 hours from outside the Core. May select from any of the courses listed under the Finance, International Business, Management, and Marketing concentrations. Other selections may include BADM 350, 380, 490 and experimental ACCT/BADM/ECON courses. At least 15 of these hours, however, must be from BADM courses.

**2. Finance concentration** (at least four courses required)

- ☐ ACCT 310 - 5 hrs                      ☐ BADM 460 - 5 hrs  
☐ BADM 420 - 5 hrs                      ☐ ECON 380 - 5 hrs  
☐ BADM 450 - 5 hrs (if this course is selected as part of core, it cannot count towards concentration)

• A minor in Accounting or Economics is highly recommended.

**3. International Business concentration** (at least four courses required)

- ☐ BADM 375 - 5 hrs                      ☐ ECON 320 - 5 hrs  
☐ BADM 385 - 5 hrs                      ☐ ECON 440 - 5 hrs  
☐ BADM 470 - 5 hrs (if this course is selected as part of core, it cannot count towards concentration.)

• Three or four more terms of foreign language are recommended.

**4. Management concentration** (at least four courses required)

- ☐ BADM 320 - 5 hrs                      ☐ BADM 415 - 5 hrs  
☐ BADM 330 - 5 hrs                      ☐ BADM 495 - 5 hrs  
☐ BADM 385 - 5 hrs                      ☐ ECON 360 - 5 hrs

**5. Marketing concentration** (at least four courses required)

- ☐ BADM 365 - 5 hrs                      ☐ BADM 410 - 5 hrs  
☐ BADM 375 - 5 hrs                      ☐ BADM 430 - 5 hrs  
☐ BADM 440 - 5 hrs (If this course is selected as part of core, it cannot count towards concentration)

• A minor in Psychology or Public Relations is recommended.

• When pursuing an internship, it is recommended that BADM 380 be taken as well.

• When preparing for graduate study in Business Administration, it is recommended that ECON 310, 320 and MATH 170, 180 be taken as well.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.



## Minor in Business Administration

*Required (at least 30 hrs):*

- ☐ Two ACCT courses, one ECON course, and any BADM course may count towards a minor.
- For a minor that may complement majors in other academic disciplines, the following set of courses is suggested: ACCT 200/210, BADM 300/310/340 and ECON 210.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

## Economics

The Department offers a B.A. or B.S. degree in Economics. The B.S. degree has the stronger quantitative component necessary for graduate work in Economics, Business, or other related fields. The **major in Economics** consists of 10 or 11 required courses.

### **B.A. or B.S. degree with a major in Economics**

*Requirements in the Core Curriculum*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (75 hrs or equivalent):*

- ☐ ACCT 200 - 5 hrs
- ☐ ECON 210 - 5 hrs
- ☐ ECON 220 - 5 hrs
- ☐ ECON 310 - 5 hrs
- ☐ ECON 320 - 5 hrs
- ☐ two courses from BADM 300/310/340 - 10 hrs
- ☐ 20 hours from ECON courses at 300/400 level (not included in the Core), BADM 370, and HIST 420
- When pursuing an internship, it is recommended that BADM 380 be taken as well.
- When preparing for graduate study in Economics, MATH 170 and 180 are recommended.
- ☐ ECON 450 - 5 hrs
- ☐ COMM 280 - 5 hrs
- ☐ ENGL 335 - 5 hrs
- ☐ MATH 230 - 5 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.



## Minor in Economics

Required (at least 25 total hrs):

- ☐ ECON 210 - 5 hrs
- ☐ ECON 220 - 5 hrs
- ☐ ECON 310 - 5 hrs
- ☐ ECON 320 - 5 hrs
- ☐ Remaining hours from among any other ECON courses, BADM 370 may be counted as well.

Residence Requirement:

- ☐ Must be fulfilled by all transfer students (see p. 24).

## Accounting Courses (ACCT)

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### ACCT 200 FINANCIAL ACCOUNTING

5 hrs

The first of the introductory courses in accounting focuses on an introduction to the financial statements of business organizations. Understanding, preparation and use of financial statements are covered from an accounting information system perspective.

*Prereq: MATH 115 and CSC 100 or equivalent CSC 100 computer knowledge (e-spreadsheets, work with internet, etc...).*

### ACCT 210 MANAGERIAL ACCOUNTING

5 hrs

The second of the introductory accounting courses emphasizing the use of accounting for decision making in the managerial environment. Topics include budgeting, cost-volume profit, break-even analysis, ABC costing and responsibility accounting.

*Prereq: ACCT 200.*

### ACCT 310 TAXES

5 hrs

A study of individual tax law. Topics include gross income, deductions and losses, property transactions, tax status and determination, depreciation and basic tax research. The class may have an optional service learning component. *Prereq: ACCT 210.*

### ACCT 330 ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS

5 hrs

A study of the procedures, practices, and concepts of accounting information systems with management and control implications. Emphasis on the part played by management information systems and their relationship with accounting information systems.

*Prereq: ACCT 210.*

### ACCT 350 COST ACCOUNTING

5 hrs

An exposure to cost accounting concepts, the measurement and accumulation of costs and cost-based decision making. *Prereq: ACCT 210.*

### ACCT 370 INTERMEDIATE ACCOUNTING I

5 hrs

A study of the application of accounting techniques and theory to recording and reporting of financial data. Emphasis is on the accounting cycle, current assets, plant



assets, the conceptual framework, and financial statements. *Prereq: ACCT 210 and junior standing; or permission of instructor.*

**ACCT 380 INTERMEDIATE ACCOUNTING II**

**5 hrs**

A continuation of Accounting 370 with emphasis on intangible assets, investments, current liabilities, long-term liabilities, stockholder equity, earnings per share and income determination. *Prereq: ACCT 370.*

**ACCT 385 INTERMEDIATE ACCOUNTING III**

**5 hrs**

A continuation of Accounting 380 with emphasis on current accounting controversies, pension and lease accounting, accounting for deferred taxes, reporting and disclosure issues. *Prereq: ACCT 380.*

**ACCT 390 INDEPENDENT STUDY**

**1-5 hrs**

An opportunity for students to engage in intensive independent study on an accounting topic of their choice under the direction of an accounting faculty member. *Prereq: ACCT 385 and junior or senior standing; or permission of instructor.*

**ACCT 410 ADVANCED TAXES**

**5 hrs**

A study of advanced tax topics relating to corporations, partnerships, limited liability companies, and nonprofit entities. Tax planning and research are emphasized. *Prereq: ACCT 310 or permission of instructor.*

**ACCT 420 AUDITING**

**5 hrs**

A study of the independent auditing function, professional ethics, legal liability, generally accepted auditing principles, and audit reporting. *Prereq: ACCT 385 or permission of instructor.*

**ACCT 430 ADVANCED AND GOVERNMENTAL ACCOUNTING**

**5 hrs**

A study of the process of consolidation of financial statements for companies that have been involved in merger and acquisition activity. Additionally, partnership accounting, foreign translation, and governmental accounting will be covered. *Prereq: ACCT 385.*

**ACCT 490 INTERNSHIP**

**1-15 hrs**

Experience with an organization that offers an exposure to accounting practices. Students may design their own internship experience within departmental guidelines. Open to juniors and seniors with better than average academic performance. Credit cannot count toward satisfying the minimum number of courses required for the major or minor.

**ACCT 499 SEMINAR IN ACCOUNTING TOPICS**

**1-5 hrs**

Special topics that offer in-depth study of some aspects of accounting theory or practice.



## **Business Administration Courses (BADM)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### **BADM 300 PRINCIPLES OF MANAGEMENT**

5 hrs

An exploration of management principles based upon managerial experience and behavioral science concepts. *Prereq: ECON 210.*

### **BADM 310 PRINCIPLES OF MARKETING**

5 hrs

A study of management strategies in the marketing of consumer and industrial products and services: target market selection and product, pricing, distribution and promotion strategies. *Prereq: ECON 210.*

### **BADM 320 PERSONNEL AND HUMAN RESOURCES MANAGEMENT**

5 hrs

A study of contemporary topics and procedures of personnel administration. Topics include diversity and legal issues in management of human resource, job analysis and staff planning, recruitment, selection, training and development, labor relations and unions. *Prereq: BADM 300.*

### **BADM 330 OPERATIONS MANAGEMENT**

5 hrs

An exploration of the role of operations in the function of an organization, manufacturing and services, at both the tactical and strategic levels. *Prereq: BADM 300 and MATH 230.*

### **BADM 340 BUSINESS FINANCE**

5 hrs

A study of the role of financial markets and institutions in the economy as well as an introduction to the responsibilities, concerns and methods of analysis employed by corporate financial managers. *Prereq: ACCT 200.*

### **BADM 350 BUSINESS LAW**

5 hrs

A study of the legal aspects of business. Emphasis is placed on the uniform commercial code dealing with obligations and contracts, agency, sales and negotiable instruments.

### **BADM 351 STAFFING**

5 hrs

This course examines the following areas: measurement, selection strategies, recruitment, job analysis, interviews, selection tests, and the evaluation of selection systems. *Prereq: BADM 320.*

### **BADM 352 PERFORMANCE APPRAISAL AND COMPENSATION**

5 hrs

A study of performance appraisal and compensation. In the area of performance appraisal the course examines: motivational concepts, the objectives of assessment, specific assessment measures, evaluation of assessment systems, legal issues in assessment, and strategic performance assessment issues. In the area of compensation the course covers: strategic compensation issues, job analysis, job evaluation, job



pricing, legal issues in compensation, labor markets, compensation structure, benefits, compensation control and administration. *Prereq: BADM 320.*

**BADM 360 MANAGING INFORMATION TECHNOLOGY**

**5 hrs**

This interdisciplinary course introduces students to managing the IT function in an environment in which business decisions and information management strategies are interdependent. The course covers the relationship between data (meta-data, the types of data), information, knowledge, insight, and the levels and uses of information: transactional, operational, and strategic. Students learn lifecycle concepts: requirements, definitions, specifications, build or buy. Topics include: training and integration issues, outsourcing strategies and issues; ethical, legal, and social issues; and the international dimensions of information management. The course introduces students to case study methods and the concepts and processes of project management. *Prereq: ACCT 210, BADM 300, and C SC 150. Open to PACE students only.*

**BADM 365 SALES MANAGEMENT**

**5 hrs**

A study of the role, activities and challenges of the sales manager. Topics include organizing the sales force, recruiting, training, compensation and motivating the sales force, forecasting and territory design. *Prereq: BADM 310.*

**BADM 370 INTERNATIONAL BUSINESS AND ECONOMICS**

**5 hrs**

A study of international economic relations, the theoretical basis of trade and financial policy, and the operation of enterprises in the international environment. *Prereq: ECON 210 and 220.*

**BADM 375 INTERNATIONAL MARKETING**

**5 hrs**

A study of the concepts of international marketing and marketing management, as well as the global environments the marketer must consider. Specific topics include: export and import operations, marketing mix and the type of entry. *Prereq: BADM 310 or 370.*

**BADM 380 TRANSITION TO THE WORK FORCE**

**2 hrs**

A study of tools and techniques to prepare students for the transition to the workplace. Topics include resume and cover letter writing, interviewing, career research and planning, on-line job searches, and portfolio development. Emphasis on training for successful internship and career placement. *Prereq: Junior or senior level standing or permission of instructor.*

**BADM 385 INTERNATIONAL COMPARATIVE MANAGEMENT**

**5 hrs**

A study of cross-cultural management practices by contrasting the different managerial approaches and styles that are used throughout the world. Human resource management and labor-management concerns are examined so that the international business firm may determine how best to maximize its effectiveness. *Prereq: BADM 370.*

**BADM 390 INDEPENDENT STUDY**

**1-5 hrs**

An opportunity for students to engage in intensive independent study on a business topic of their choice under the direction of a business faculty member. *Prereq:*



Completion of most core business courses and junior or senior standing; or permission of instructor.

**BADM 410 RETAILING MANAGEMENT**

5 hrs

A study of retailing practices and the role of the retailing organization in the channel of distribution. Particular emphasis on the management aspects of retailing: pricing, inventory control, personnel policies, and merchandising strategy. *Prereq:* BADM 310.

**BADM 415 TRAINING AND DEVELOPMENT**

5 hrs

An analysis of training and development topics and training design. Emphasis on learning principles, the relationship between training and other human resource functions, needs assessment, orientation, training methods, team training, the evaluation of training, the utility of training, and development practices. Questions of how ethics, diversity, and discrimination influence the human resource function will also be stressed. *Prereq:* BADM 320.

**BADM 420 CORPORATE FINANCE**

5 hrs

A study of advanced topics in financial management including working capital management, planning and control, effects of investment and financial policy on stockholder wealth, capital budgeting, cost of capital, dividend policy, debt policy, leasing policy, mergers and acquisitions, international finance. *Prereq:* BADM 340.

**BADM 430 ADVERTISING AND PROMOTION**

5 hrs

The role of advertising, publicity and public relations, personal selling, sales promotion and direct marketing in the comprehensive marketing program of an organization. Each topic will focus on the methods and underlying behavioral theories. *Prereq:* BADM 310.

**BADM 440 MARKETING ANALYSIS AND PLANNING**

5 hrs

An analysis of marketing strategies for profit and nonprofit organizations. *Prereq:* ACCT 200/210, BADM 300/310/340/370, COMM 280, ECON 210/220, ENGL 335, MATH 230, MATH 260 (for BA students) and MATH 170/180 (for BS students); or permission of instructor.

**BADM 450 FINANCIAL PLANNING THEORY**

5 hrs

An advanced course in finance that deals with the application of financial theory to business decision-making. Financial models are applied to case studies. *Prereq:* ACCT 200/210, BADM 300/310/340/370, COMM 280, ECON 210/220, ENGL 335, MATH 230, MATH 260 (for BA students) and MATH 170/180 (for BS students); or permission of instructor.

**BADM 460 INVESTMENTS ANALYSIS**

5 hrs

Provides a conceptual and analytic framework for portfolio management from the viewpoint of the investor. *Prereq:* BADM 340.



**BADM 470 INTERNATIONAL BUSINESS POLICY AND STRATEGY 5 hrs**

This capstone course will cover the tasks of strategic management (formulation, implementation, assessment and integration) of firms engaged in international business. The choices and consequences of various competitive and co-operative strategies will be examined as will be global strategic drivers and levers. *Prereq: ACCT 200/210, BADM 300/310/340/370, COMM 280, ECON 210/220, ENGL 335, MATH 230, MATH 260 (for BA students) and MATH 170/180 (for BS students); or permission of instructor.*

**BADM 480 BUSINESS POLICY****5 hrs**

Analysis of major policy decisions in the context of the entire business entity. Instruction will emphasize the interrelationships of the organizations's major functions—marketing, operations and finance. The course will stress the integration of knowledge and analytical skills acquired from other business courses. Questions of social responsibility, ethics, and personal attitudes will be raised and discussed in the context of actual cases. *Prereq: ACCT 200/210, BADM 300/310/340/370, COMM 280, ECON 210/220, ENGL 335, MATH 230, MATH 260 (for BA students) and MATH 170/180 (for BS students); or permission of instructor.*

**BADM 490 INTERNSHIP****1-15 hrs**

Experience with an organization that offers an exposure to business practices. Students may design their own internship experience within departmental guidelines. Open to juniors and seniors with better than average academic performance. Credit cannot count toward satisfying the minimum number of courses required for the concentration, major or minor.

**BADM 492 INTERNATIONAL BUSINESS SEMINAR****5 hrs**

International business seminar held in a designated foreign country. Course includes lectures, plant tours and corporate/institutional/governmental site visits, city tours, historical site visits and cultural events. Course requires a pre-study on country or region, attendance at all seminar activities during overseas portion and an individual research paper concluded upon return. *Prereq: Junior/senior standing required or permission of instructor. Course may be repeated once with departmental permission.*

**BADM 495 QUALITY MANAGEMENT****5 hrs**

An introduction to quality management principles with a focus on processes. Process mapping, statistical process control, and process capability are covered along with the use of teams. Both the hard and soft aspects of quality are discussed to provide a holistic view leading to a system of ongoing improvement. *Prereq: MATH 230.*

**BADM 499 SEMINAR IN BUSINESS ADMINISTRATION TOPICS 1-5 hrs**

Special topics that offer in-depth study of some aspects of business.

**Economics Courses (ECON)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



**ECON 210 PRINCIPLES OF MICROECONOMICS**

**5 hrs**

An introduction to the economic decision-making processes of households and business with emphasis on price determination, market structures, and the productivity of economic factors. *Prereq: MATH 115.*

**ECON 220 PRINCIPLES OF MACROECONOMICS**

**5 hrs**

An introduction to the economic decisions at the societal-national level. Emphasis on income determination, employment, fiscal and monetary policies. *Prereq: MATH 115.*

**ECON 310 INTERMEDIATE MICROECONOMIC ANALYSIS**

**5 hrs**

A detailed analysis of consumers and individual firms in different market situations with major emphasis on price information, product function, resource allocation and distribution theory. *Prereq: ECON 210 and 220.*

**ECON 320 INTERMEDIATE MACROECONOMIC ANALYSIS**

**5 hrs**

An exploration of Keynesian, Post-Keynesian and Monetarist interpretation of national economic problems. *Prereq: ECON 210 and 220 and junior or senior standing.*

**ECON 350 COMPARATIVE ECONOMIC SYSTEMS**

**5 hrs (alt. yrs.)**

Examination of political-economic-social systems such as Capitalism, Socialism, Communism. Emphasis on the nature of institutions and processes that develop under each system to support human welfare. *Prereq: ECON 210 and 220.*

**ECON 360 LABOR ECONOMICS AND INDUSTRIAL RELATIONS**

**5 hrs**

Examination of economic decisions concerning the allocation of labor resources in the firm and the functioning of labor markets. Issues of collective bargaining and government programs to stimulate employment are discussed. *Prereq: ECON 210 and 220 or permission of instructor.*

**ECON 380 MONEY AND BANKING**

**5 hrs**

A study of the organization, operation and economic significance of U.S. monetary and banking systems with special reference to current conditions and problems. *Prereq: ECON 210 and 220.*

**ECON 390 INDEPENDENT STUDY**

**1-5 hrs**

An opportunity for students to engage in intensive independent study on an economic topic of their choice under the direction of an economics faculty member. *Prereq: ECON 210 and 220 and junior or senior standing or permission of instructor.*

**ECON 425 ENVIRONMENTAL ECONOMICS**

**5 hrs (alt. yrs.)**

The course examines various economic issues facing business and government regarding the use of natural resources and the management of environmental quality. The US economy is the focus of the course. Environmental issues are addressed from a local, national, and, when appropriate, global perspective. *Prereq: ECON 210 and ECON 220 and junior or senior standing.*



**ECON 440 ECONOMIC DEVELOPMENT AND GROWTH 5 hrs (alt.yrs.)**

A study of the forces and institutions affecting the Third World countries, including an examination of the leading economic development theories. *Prereq: ECON 210 and 220 and junior or senior standing.*

**ECON 450 INTRODUCTION TO ECONOMETRICS 5 hrs (alt. yrs.)**

The course is an introduction to the methods of data analysis used in economics. Focus is on multivariate regression analysis and solutions to the problems of heteroskedasticity, serial correlation, and simultaneous equations bias. Time series models and forecasting will also be discussed. An econometrics computer package is used for data analysis. *Prereq: ECON 210, ECON 220, and MATH 230 and junior or senior standing.*

**ECON 490 INTERNSHIP 1-15 hrs**

Experience with an organization that offers an exposure to economic concepts and practices. Students may design their own internship experience within departmental guidelines. Open to juniors and seniors with better than average academic performance. Credit cannot count toward satisfying the minimum number of courses required for the major or minor.

**ECON 499 SEMINAR IN ECONOMICS TOPICS 1-5 hrs**

Special topics that offer in-depth study of some aspects of economics.



# Chemistry & Biochemistry

Jenkins (chairperson), Esson, Johnston, Sachleben, Szabo, Tansey

## Mission and Programs

The Department of Chemistry & Biochemistry consists of six full-time faculty and a part-time laboratory supervisor. The department seeks to provide a program that prepares students for professional work in chemistry in accordance with the American Chemical Society (ACS) guidelines. The program in Chemistry meets the undergraduate professional standards of and is approved by the American Chemical Society. The department provides support courses to Physics, Life Sciences, and Nursing majors. It also seeks to make chemistry accessible to liberal arts students and to raise the level of scientific literacy, in part by participation in the Integrative Studies program.

The department offers two majors: **Chemistry**, with American Chemical Society Certified or Basic concentrations, and **Biochemistry**. These majors are appropriate for careers in Chemistry, Biochemistry, graduate school preparation, medical research, or pre-professional programs leading to health-related careers such as medicine, dentistry, optometry, veterinary medicine, and pharmacy.

## B.A. or B.S. degree with a major in Chemistry

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (73 hrs or equivalent for Chemistry with Basic Chemistry concentration; 87 hrs or equivalent for Chemistry with American Chemical Society concentration):*

- |   |   |
|---|---|
| <input type="checkbox"/> MATH 170 - 5 hrs | <input type="checkbox"/> PHYS 171/141 - 5 hrs |
| <input type="checkbox"/> MATH 180 - 5 hrs | <input type="checkbox"/> PHYS 172/142 - 5 hrs |
|   | <input type="checkbox"/> PHYS 173/143 - 5 hrs |

One of the following two concentrations is also required:

### 1. Basic Chemistry concentration

- |  |   |
|--|---|
| <input type="checkbox"/> CHEM 140 - 3 hrs  | <input type="checkbox"/> CHEM 251 - 1 hr  |
| <input type="checkbox"/> CHEM 141 - 1 hr   | <input type="checkbox"/> CHEM 260 - 3 hrs |
| <input type="checkbox"/> CHEM 150 - 3 hrs  | <input type="checkbox"/> CHEM 261 - 1 hr  |
| <input type="checkbox"/> CHEM 151 - 1 hr   | <input type="checkbox"/> CHEM 270 - 3 hrs |
| <input type="checkbox"/> CHEM 160 - 3 hrs  | <input type="checkbox"/> CHEM 271 - 2 hrs |
| <input type="checkbox"/> CHEM 161 - 1 hr   | <input type="checkbox"/> CHEM 280 - 5 hrs |
| <input type="checkbox"/> CHEM 240 - 3 hrs  | <input type="checkbox"/> CHEM 340 - 5 hrs |
| <input type="checkbox"/> CHEM 241 - 1 hr   | <input type="checkbox"/> CHEM 341 - 1 hr  |
| <input type="checkbox"/> CHEM 250 - 3 hrs  | <input type="checkbox"/> CHEM 400 - 2 hrs |
| <input type="checkbox"/> remaining hours from any other CHEM courses at 300/400 level; CHEM hours must total at least 48 |   |



**2. American Chemical Society Certified concentration**

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 140 - 3 hrs | <input type="checkbox"/> CHEM 270 - 3 hrs |
| <input type="checkbox"/> CHEM 141 - 1 hr  | <input type="checkbox"/> CHEM 271 - 2 hrs |
| <input type="checkbox"/> CHEM 150 - 3 hrs | <input type="checkbox"/> CHEM 280 - 5 hrs |
| <input type="checkbox"/> CHEM 151 - 1 hr  | <input type="checkbox"/> CHEM 340 - 5 hrs |
| <input type="checkbox"/> CHEM 160 - 3 hrs | <input type="checkbox"/> CHEM 341 - 1 hr  |
| <input type="checkbox"/> CHEM 161 - 1 hr  | <input type="checkbox"/> CHEM 350 - 5 hrs |
| <input type="checkbox"/> CHEM 240 - 3 hrs | <input type="checkbox"/> CHEM 351 - 1 hr  |
| <input type="checkbox"/> CHEM 241 - 1 hr  | <input type="checkbox"/> CHEM 380 - 5 hrs |
| <input type="checkbox"/> CHEM 250 - 3 hrs | <input type="checkbox"/> CHEM 400 - 2 hrs |
| <input type="checkbox"/> CHEM 251 - 1 hr  | <input type="checkbox"/> CHEM 450 - 3 hrs |
| <input type="checkbox"/> CHEM 260 - 3 hrs | <input type="checkbox"/> MATH 200 - 5 hrs |
| <input type="checkbox"/> CHEM 261 - 1 hr  |   |
- ☐ Remaining hours from among CHEM 390 (no more than 4 hrs) or CHEM courses at 400 level except 490; CHEM hours must total at least 62
- ENGL 335, Technical and Report Writing, is recommended.

**Residence Requirement:**

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Required total hours for the degree:**

- ☐ At least 180, but more typically closer to 190 for the B.S. (also see exceptions/additional comments on p. 24)

**Application for Degree**

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**B.A. or B.S. degree with a major in Biochemistry****Requirements in the Core Curriculum:**

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

**Requirements in the major (approx. 100 hrs or equivalent):**

- |  |   |
|--|---|
| <input type="checkbox"/> CHEM 140 - 3 hrs  | <input type="checkbox"/> CHEM 400 - 2 hrs     |
| <input type="checkbox"/> CHEM 141 - 1 hr   | <input type="checkbox"/> CHEM 450 - 3 hrs     |
| <input type="checkbox"/> CHEM 150 - 3 hrs  | <input type="checkbox"/> CHEM 460 - 3 hrs     |
| <input type="checkbox"/> CHEM 151 - 1 hr   | <input type="checkbox"/> CHEM 465 - 4 hrs     |
| <input type="checkbox"/> CHEM 160 - 3 hrs  | <input type="checkbox"/> L SC 101 - 5 hrs     |
| <input type="checkbox"/> CHEM 161 - 1 hr   | <input type="checkbox"/> L SC 102 - 5 hrs     |
| <input type="checkbox"/> CHEM 240 - 3 hrs  | <input type="checkbox"/> L SC 103 - 5 hrs     |
| <input type="checkbox"/> CHEM 241 - 1 hr   | <input type="checkbox"/> L SC 201 - 5 hrs     |
| <input type="checkbox"/> CHEM 250 - 3 hrs  | <input type="checkbox"/> L SC 202 - 5 hrs     |
| <input type="checkbox"/> CHEM 251 - 1 hr   | <input type="checkbox"/> MATH 170 - 5 hrs     |
| <input type="checkbox"/> CHEM 260 - 3 hrs  | <input type="checkbox"/> MATH 180 - 5 hrs     |
| <input type="checkbox"/> CHEM 261 - 1 hr   | <input type="checkbox"/> PHYS 171/141 - 5 hrs |
| <input type="checkbox"/> CHEM 270 - 3 hrs* | <input type="checkbox"/> PHYS 172/142 - 5 hrs |
| <input type="checkbox"/> CHEM 271 - 2 hrs* | <input type="checkbox"/> PHYS 173/143 - 5 hrs |
| <input type="checkbox"/> CHEM 280 - 5 hrs  | <input type="checkbox"/> CHEM 330 - 6 hrs     |



\* With approval of Department of Chemistry & Biochemistry Chairperson, may substitute a 300/400 level L SC course.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **Minor in Chemistry**

*Required (29 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 140 - 3 hrs | <input type="checkbox"/> CHEM 241 - 1 hr  |
| <input type="checkbox"/> CHEM 141 - 1 hr  | <input type="checkbox"/> CHEM 250 - 3 hrs |
| <input type="checkbox"/> CHEM 150 - 3 hrs | <input type="checkbox"/> CHEM 251 - 1 hr  |
| <input type="checkbox"/> CHEM 151 - 1 hr  | <input type="checkbox"/> CHEM 260 - 3 hrs |
| <input type="checkbox"/> CHEM 160 - 3 hrs | <input type="checkbox"/> CHEM 261 - 1 hr  |
| <input type="checkbox"/> CHEM 161 - 1 hr  | <input type="checkbox"/> CHEM 280 - 5 hrs |
| <input type="checkbox"/> CHEM 240 - 3 hrs |   |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

## **Physical Sciences Teacher Licensure (grades 7-12)**

Students who wish to teach chemistry in grades 7-12 should refer to the requirements for the Physical Science major under "Physics and Astronomy." Requirements for students seeking physical science licensure are listed in the *Teacher Education Program* booklet available in the Education Department.

## **Program Outcome**

Completion of the appropriate concentration described above prepares students for **postgraduate study** in the various subfields of chemistry (analytical, bio-, inorganic, organic, physical and polymer chemistry) and chemical engineering, **health-related professional programs** (e.g., medicine, dentistry, optometry), and **employment** as chemists or biochemists in a wide variety of industrial and government research laboratories. The program's technical content and problem-solving approach to learning may serve to prepare some students for careers in **other fields** such as law (intellectual property), business (marketing, sales), and information science.

## **Chemistry Courses (CHEM)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



**CHEM 110 SURVEY OF GENERAL CHEMISTRY****5 hrs***Lecture and laboratory*

A study of inorganic chemistry including atoms, energy, bonding, reactions, states of matter, and calculations. *Coreq: MATH 115.*

**CHEM 220 SURVEY OF BIO-ORGANIC CHEMISTRY****6 hrs**

A survey course covering a range of topics for the non-major. The first forty percent of the class will serve as an overview of the major organic functional groups found in biochemistry. The latter sixty percent will focus on metabolism, the properties of biomolecules, and the chemistry of biological processes. Throughout the course examples will be cited of the biochemical basis of disease and current pharmaceutical treatments of these disorders. *Prereq: CHEM 110.*

*Note: Chemistry 110 and 220 do not count toward a Chemistry major or minor.*

**CHEM 140 GENERAL CHEMISTRY I****3 hrs**

The first course in a three quarter sequence to introduce basic concepts of chemistry to students majoring in science. Emphasis on problem solving and developing scientific thought processes. Course content includes atomic properties, basic calculations, thermochemistry, aqueous reactions, gas laws, and intermolecular forces. *Prereq: One year of high school chemistry or CHEM 110. Coreq: MATH 115 or 120.*

**CHEM 141 GENERAL CHEMISTRY I LABORATORY****1 hr**

The laboratory is designed to reinforce concepts from lecture and develop experimental skills. Quantitative and synthesis experiments are included with emphasis on report writing. *Coreq: CHEM 140 that must be taken at Otterbein College.*

**CHEM 150 GENERAL CHEMISTRY II****3 hrs**

Continuation of Chemistry 140. Course content includes the structure of atoms and molecules, chemical bonding, thermodynamics, solution stoichiometry, and kinetics. *Prereq: CHEM 140. Coreq: MATH 116 or 120.*

**CHEM 151 GENERAL CHEMISTRY II LABORATORY****1 hr**

Continuation of Chemistry 141. Laboratory and computer-based experiments are performed to clarify and reinforce lecture topics. *Prereq: CHEM 141. Coreq: CHEM 150 that must be taken at Otterbein College.*

**CHEM 160 GENERAL CHEMISTRY III****3 hrs**

Continuation of Chemistry 150. Inorganic and analytical topics include acid-base equilibria, solubility, complex ion formation, electron transfer reactions, and an introduction to qualitative inorganic chemistry. *Prereq: CHEM 150.*

**CHEM 161 GENERAL CHEMISTRY III LABORATORY****1 hr**

Continuation of Chemistry 151, with emphasis on inorganic synthesis, equilibrium studies, and qualitative analysis. *Prereq: CHEM 151. Coreq: CHEM 160 that must be taken at Otterbein College.*



**CHEM 240 ORGANIC CHEMISTRY I**

3 hrs

Structure, reactivity, and synthesis of carbon-containing compounds. The problem-solving approach emphasizes the correlation of reaction mechanism with modern structural theory. Topics include the nature of bonding, stereochemistry, alkanes, alkenes, and alkynes. *Prereq: CHEM 160.*

**CHEM 241 ORGANIC CHEMISTRY I LABORATORY**

1 hr

Experimental techniques are introduced in the laboratory through isolation of natural products, preparation of representative functional compounds, and multistep synthesis of complex molecules. *Prereq: CHEM 161; Coreq: CHEM 240 that must be taken at Otterbein College.*

**CHEM 250 ORGANIC CHEMISTRY II**

3 hrs

Continuation of Chemistry 240, including a discussion of alkyl halides, spectroscopy, aromaticity, alcohols, ethers, aldehydes and ketones. *Prereq: CHEM 240.*

**CHEM 251 ORGANIC CHEMISTRY II LABORATORY**

1 hr

Continuation of Chemistry 241. *Prereq: CHEM 241. Coreq: CHEM 250 that must be taken at Otterbein College.*

**CHEM 260 ORGANIC CHEMISTRY III**

3 hrs

Continuation of Chemistry 250, including a discussion of carboxylic acids and their derivatives, carbonyl condensation reactions, amines, and polymers. *Prereq: CHEM 250.*

**CHEM 261 ORGANIC CHEMISTRY III LABORATORY**

1 hr

Continuation of Chemistry 251, emphasizing classical and modern qualitative analysis. *Prereq: CHEM 251. Coreq: CHEM 260 that must be taken at Otterbein College.*

**CHEM 270 INORGANIC CHEMISTRY**

3 hrs

Survey of the properties and reactivity of main group and transition metal elements. Topics include atomic structure and bonding theory, introduction to molecular orbital theory, acid-base theories, inorganic nomenclature, coordination chemistry, periodic properties of the elements, and basic organometallic chemistry. *Prereq: CHEM 160 and 161.*

**CHEM 271 INORGANIC CHEMISTRY LABORATORY**

2 hrs

Synthesis and characterization of organometallic, coordination, bioinorganic and solid state compounds. Includes inert atmosphere techniques, vibrational spectroscopy, multi-nuclear NMR spectroscopy, and electrochemistry. *Coreq: CHEM 270 that must be taken at Otterbein College.*

**CHEM 280 ANALYTICAL CHEMISTRY**

5 hrs

*Lecture and laboratory*

A cornerstone course for developing skills in scientific measurement, analysis, and report writing, designed to train students in quantitative skills using statistical data analysis and computer programs, with an emphasis on spreadsheet computations. Basic skills in volumetric and potentiometric titrations, spectrophotometric analyses,



and modern instrumental analysis techniques are taught. *Prereq: MATH 170, CHEM 160 and 161.*

**CHEM 330 BIOPHYSICAL CHEMISTRY****6 hrs**

A survey of the application of thermodynamics, kinetics, quantum mechanics, spectroscopy applied to biochemical systems. This course has a laboratory component. *Prereq: MATH 180 and PHYS 173. Coreq: CHEM 280.*

**CHEM 340 PHYSICAL CHEMISTRY I****5 hrs**

This course is the first in the physical chemistry series. It covers gas laws, thermodynamics, kinetics, and molecular motion. *Prereq: MATH 180 and PHYS 173. Coreq: CHEM 280.*

**CHEM 341 PHYSICAL CHEMISTRY I LABORATORY****1 hr**

Laboratory applications of the fundamental principles of thermodynamics are demonstrated. Hypothesis testing and the critical analysis of data by mathematical modeling are stressed. In addition, scientific writing skills of publication-quality papers are developed. *Coreq: CHEM 340 that must be taken at Otterbein College.*

**CHEM 350 PHYSICAL CHEMISTRY II****5 hrs**

This course is the second in the physical chemistry series. It covers quantum mechanics, spectroscopy, and statistical mechanics. *Prereq: MATH 200, PHYS 173, CHEM 340.*

**CHEM 351 PHYSICAL CHEMISTRY II LABORATORY****1 hr**

Laboratory applications of quantum mechanics are demonstrated primarily by connecting the model calculations of the classroom exercises with spectroscopic measurements. Ultraviolet-visible (UV-VIS), infrared (IR), Raman, and nuclear magnetic resonance (NMR) spectroscopies are utilized to demonstrate the principles of quantum mechanics. Scientific writing skills are further developed. *Coreq: CHEM 350 that must be taken at Otterbein College.*

**CHEM 380 INSTRUMENTAL ANALYSIS****5 hrs**

*Lecture and laboratory*

A study of the theory and applications of modern chemical instrumentation. Includes UV-VIS, FT-IR, FT-NMR, Raman, and atomic absorption spectroscopies, gas and liquid chromatography, GC-MS, electroanalytical techniques, and computer interfacing. Ability to use computer spreadsheet programs and knowledge of basic statistical analysis are assumed. *Prereq: CHEM 280.*

**CHEM 390 INDEPENDENT STUDY****1-4 hrs**

A student undertakes a research problem with the consent of a staff member and, if repeated, may receive up to 4 hrs of credit. *Prereq: CHEM 261 or 341.*

**CHEM 400 SEMINAR****2 hrs**

An introduction to on-line searching of the chemical literature, oral presentations, a term paper on a specific topic, and periodic guest lectures. Taken each term in the senior year. *Prereq: CHEM 340.*



**CHEM 410 POLYMER CHEMISTRY**

3 hrs

An introduction to polymer science including monomer and polymer syntheses, polymerization kinetics, molecular weight distribution, and physical properties including thermal, viscoelastic properties, solubilities, and miscibilities. Polymer molecular modeling will be introduced to predict physical properties of polymers built in the modeling program as an alternative to a laboratory module. *Prereq: CHEM 260 and 340, or permission of the instructor.*

**CHEM 440 ADVANCED ORGANIC CHEMISTRY**

3 hrs

Advanced reaction mechanisms, kinetics, structure-reactivity relationships, orbital symmetry considerations, and newer synthetic methods are presented. *Prereq: CHEM 260 and 340.*

**CHEM 450 BIOCHEMISTRY I**

3 hrs

A discussion of the general physical and chemical properties of amino acids, proteins (including enzymes), carbohydrates, and nucleic acids, with an emphasis on structure-reactivity correlations and reaction mechanisms. *Prereq: CHEM 260.*

**CHEM 460 BIOCHEMISTRY II**

3 hrs

Continuation of Chemistry 450, including an analysis of intermediary metabolism and other important biological reactions from an organic chemistry multifunctional group perspective. *Prereq: CHEM 450.*

**CHEM 465 ADVANCED BIOCHEMISTRY**

4 hrs

*Lecture and laboratory*

An advanced course dedicated to a thorough examination of biological processes at the chemical level. Five units will be studied consisting of protein structure and function, enzyme kinetics, bioinformatics and data mining, signal transduction and second messengers, and neuroscience and electrophysiology. Topics will be addressed using graduate level texts and reviews of current literature. Laboratory sections and take home exercises will complement material covered in lecture. *Prereq: CHEM 280 and 460.*

**CHEM 470 ADVANCED INORGANIC CHEMISTRY**

3 hrs

In depth treatment of advanced topics in inorganic chemistry, including quantum theory, group-theory, advanced bonding theory, electronic spectra, magnetism, organotransition metal chemistry, bioinorganic chemistry, catalysis, and an introduction to band-theory in solids. *Prereq: CHEM 270 and 340.*

**CHEM 480 SPECIAL TOPICS**

2-4 hrs

Topics not included in the regular curriculum. *Prereq: depends on the specific topic.*

**CHEM 490 INTERNSHIP**

1-15 hrs

Employment experience off-campus. Approved, arranged and administered by the department. Not applicable as credit for the major.



# Communication

*Millsap (chairperson), Demas, Jones, Kelly, Ludlum, McNabb, Reynolds, Sabbath, Shively, Strayer, Warren, Weispfenning, Windborne.*

## Mission and Programs

The Department of Communication consists of 12 full-time faculty members and defines its mission as: (1) providing our majors with education that helps them develop as "whole persons," both as future professionals and as contributors to society; (2) helping all students develop communication skills that will allow them to exercise their rights as citizens in a free society, and to develop meaningful relationships with others; and (3) modeling ethical communication practices, mentoring students in and out of the classroom, and exploring, developing and applying new knowledge.

The department sponsors majors in broadcasting, speech communication, organizational communication, journalism and public relations, and minors in broadcasting, speech communication, journalism and public relations. The organizational communication major is offered in the evening program. The department also provides required courses for several majors and sponsors co-curricular activities.

**Communication Ability Awards** are available to students planning a major in speech communication, broadcasting, organizational communication, journalism or public relations. Awards are based upon high school record, test scores, communication-related activities and completion of an essay. To be eligible for consideration, a student must be accepted to Otterbein. For information, please write: Chairperson, Department of Communication, Otterbein College, Westerville, Ohio 43081. (614-823-3380)

## Communication Related Activities

**Newspaper**— The College newspaper, *The Tan and Cardinal*, is published by a student staff each week during the academic year except during the summer term. Students can write, edit, take photographs and design this 1,500-circulation newspaper. The newspaper is also available online at [www.tanandcardinal.org](http://www.tanandcardinal.org). Some editorial positions are paid, and editors are eligible to attend national and local college newspaper conferences.

**Public Relations**— Otterbein sponsors a chapter of the Public Relations Student Society of America (PRSSA), a national, pre-professional organization for students interested in public relations. The Otterbein College Chapter sponsors a variety of speakers and workshops and a student-managed public relations agency. In addition, members of PRSSA are eligible for scholarships sponsored by the Public Relations Society of America, receive reduced rates at professional luncheons and workshops and may attend national and district conferences of PRSSA.

**Radio**— WOBN-FM, the student-run radio station, is under the direction of the Department of Communication. WOBN also offers co-curricular opportunities for students majoring in communication and other related disciplines. The station broadcasts 24 hours a day featuring an alternative music format, Otterbein College sporting events and Westerville area news and public affairs. WOBN broadcasts at 101.5 FM and on-line at [www.wobn.net](http://www.wobn.net).



**Television**—WOCC-TV 3 provides programming for Westerville and Otterbein College via cable channel 3. Programming includes public affairs, entertainment, education and sports. By participating, the student has the opportunity for a hands-on learning experience including camera, graphics, audio operation, production and direction, as well as management. The day-to-day operation of an on-air cable television station provides a practical addition to classroom instruction.

**Forensics**—Otterbein is a member of the Ohio Forensics Association, National Forensic Association, and Pi Kappa Delta, a national forensics honorary. Students compete in debate tournaments and individual events (public speaking, oral interpretation and extemporaneous speaking) tournaments which provide travel opportunities to both local and out-of-state contests.

**M.O.S.T.**—Mentoring Organizational Students Today is a networking and mentoring organization for students interested in careers in Organizational Communication. Students are actively involved in building mentoring connections by organizing professional speaking events, an informal networking brunch, mock interviews, fundraisers, and on-site professional visits. In addition, students coordinate various activities to develop mentoring relationships among all communication majors.

### ***B.A. degree with a major in Broadcasting***

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

#### *Requirements in the major (58 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> COMM 100 - 5 hrs | <input type="checkbox"/> MCOM 140 - 1 hr  |
| <input type="checkbox"/> COMM 200 - 5 hrs | <input type="checkbox"/> MCOM 141 - 1 hr  |
| <input type="checkbox"/> COMM 305 - 5 hrs | <input type="checkbox"/> MCOM 450 - 5 hrs |
| <input type="checkbox"/> COMM 498 - 2 hrs | <input type="checkbox"/> JOUR 160 - 5 hrs |
| <input type="checkbox"/> COMM 499 - 3 hrs |   |

*Students must choose one of the following concentrations available in the major:*

#### *1. Media Production concentration*

- |  |   |
|--|---|
| <input type="checkbox"/> MCOM 110 - 5 hrs  | <input type="checkbox"/> MCOM 261 or JOUR 260 - 5 hrs |
| <input type="checkbox"/> MCOM 120 - 5 hrs  | <input type="checkbox"/> MCOM 365 or 410 - 5 hrs      |
| <input type="checkbox"/> One course from MCOM 341-347 - 1 hr   |   |
| <input type="checkbox"/> Elective from among ART 151, COMM 335, JOUR 175, and MCOM 130/261/320/360/365/391/410 - 5 hrs |   |

#### *2. Media Studies concentration*

- |   |   |
|---|---|
| <input type="checkbox"/> JOUR 140 - 1 hr  | <input type="checkbox"/> MCOM 365 - 5 hrs |
| <input type="checkbox"/> MCOM 110 or 120 - 5 hrs  | <input type="checkbox"/> MCOM 410 - 5 hrs |
| <input type="checkbox"/> MCOM 265 - 5 hrs   |   |
| <input type="checkbox"/> Elective from among MCOM 110/120/261/270/320/360/391/490, JOUR 260/360, COMM 215/335, and BADM 300/310 - 5 hrs |   |

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)



*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **B.A. degree with a major in Journalism**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (69 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> COMM 100 - 5 hrs   | <input type="checkbox"/> JOUR 260 - 5 hrs               |
| <input type="checkbox"/> COMM 200 - 5 hrs   | <input type="checkbox"/> JOUR 275 - 5 hrs               |
| <input type="checkbox"/> COMM 305 - 5 hrs   | <input type="checkbox"/> JOUR 360 - 5 hrs               |
| <input type="checkbox"/> COMM 498 - 2 hrs   | <input type="checkbox"/> JOUR 375 - 5 hrs               |
| <input type="checkbox"/> COMM 499 - 3 hrs   | <input type="checkbox"/> JOUR 490 - at least 3 hrs      |
| <input type="checkbox"/> JOUR 160 - 5 hrs   | <input type="checkbox"/> MCOM 410 - 5 hrs               |
| <input type="checkbox"/> JOUR 175 - 5 hrs   | <input type="checkbox"/> Electives from JOUR, COMM, and |
| <input type="checkbox"/> JOUR 140 and 340   | MCOM - 5 hrs.   |
| <input type="checkbox"/> minimum of 1 hr of 140 and 1 hr of 340 and at least 6 hrs combined |   |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **B.A. degree with a major in Organizational Communication**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (60 hrs or equivalent):*

- |  |   |
|--|---|
| <input type="checkbox"/> COMM 100 - 5 hrs  | <input type="checkbox"/> COMM 380 - 5 hrs |
| <input type="checkbox"/> COMM 180 - 5 hrs  | <input type="checkbox"/> COMM 385 - 5 hrs |
| <input type="checkbox"/> COMM 200 - 5 hrs  | <input type="checkbox"/> COMM 480 - 5 hrs |
| <input type="checkbox"/> COMM 285 - 5 hrs  | <input type="checkbox"/> COMM 498 - 2 hrs |
| <input type="checkbox"/> COMM 305 - 5 hrs  | <input type="checkbox"/> COMM 499 - 3 hrs |
| <input type="checkbox"/> electives from among BADM 300/320, COMM 220/250/361/362/363/364, ECON 210, PSYC 340 and SOCL 385 - 15 hrs |   |



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

***B.A. degree with a major in Public Relations***

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (62 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> COMM 100 - 5 hrs | <input type="checkbox"/> COMM 415 - 5 hrs                 |
| <input type="checkbox"/> COMM 200 - 5 hrs | <input type="checkbox"/> COMM 498 - 2 hrs                 |
| <input type="checkbox"/> COMM 215 - 5 hrs | <input type="checkbox"/> COMM 499 - 3 hrs                 |
| <input type="checkbox"/> COMM 305 - 5 hrs | <input type="checkbox"/> JOUR 140 and/or COMM 370 - 2 hrs |
| <input type="checkbox"/> COMM 310 - 5 hrs | <input type="checkbox"/> JOUR 160 - 5 hrs                 |
| <input type="checkbox"/> COMM 335 - 5 hrs | <input type="checkbox"/> JOUR 175 - 5 hrs                 |
| <input type="checkbox"/> COMM 400 - 5 hrs | <input type="checkbox"/> JOUR 260 - 5 hrs                 |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

***B.A. degree with a major in Speech Communication***

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (at least 47 hrs):*

- |   |   |
|---|---|
| <input type="checkbox"/> COMM 100 - 5 hrs | <input type="checkbox"/> COMM 330 - 5 hrs |
| <input type="checkbox"/> COMM 140 - 1 hrs | <input type="checkbox"/> COMM 360 - 5 hrs |
| <input type="checkbox"/> COMM 141 - 1 hrs | <input type="checkbox"/> COMM 498 - 2 hrs |
| <input type="checkbox"/> COMM 200 - 5 hrs | <input type="checkbox"/> COMM 499 - 3 hrs |
| <input type="checkbox"/> COMM 305 - 5 hrs |   |

- ☐ remaining hours from among COMM 120/180/291/335/350/380/391/491



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

### Application for Degree

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### Minor in Broadcasting

*Required (at least 25 total hrs):*

- ☐ MCOM 110 - 5 hrs
- ☐ MCOM 120 - 5 hrs
- ☐ remaining hours from among MCOM 130/140/141/265/320/341-349/360/365/410/450. No more than 6 hours combined from MCOM 140/141/341-349.
- Consult with a broadcast adviser in constructing the minor.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 23).

### *Minor in Journalism Publication and On-Line Design*

*Required (at least 29 hours):*

- ☐ JOUR 160 - 5 hrs                      ☐ JOUR 375 - 5 hrs  
☐ JOUR 175 - 5 hrs                      ☐ MCOM 410 or JOUR 260 - 5 hrs  
☐ JOUR 140 and 340 - at least 4 hrs with at least 1 hr of 340.  
☐ JOUR 275 - 5 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 23).

### Minor in Journalism Writing

*Required (at least 29 total hours):*

- ☐ JOUR 160 - 5 hrs                      ☐ JOUR 260 - 5 hrs  
☐ JOUR 175 - 5 hrs                      ☐ JOUR 360 - 5 hrs  
☐ JOUR 140 and 340 - at least 4 hrs    ☐ MCOM 410 - 5 hrs  
with at least 1 hr of 340.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 23).

### Minor in Public Relations

*Required (all of these courses):*

- ☐ COMM 100 or 280 - 5 hrs      ☐ JOUR 160 - 5 hrs  
☐ COMM 215 - 5 hrs                ☐ JOUR 175 - 5 hrs  
☐ COMM 310 - 5 hrs                ☐ JOUR 260 - 5 hrs  
☐ COMM 400 or 415 - 5 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).



## Minor in Speech Communication

Required (at least 25 total hrs):

- ☐ COMM 100 - 5 hrs                      ☐ COMM 200 - 5 hrs
- ☐ remaining hours from any other COMM courses with at least 10 hrs at 300 level or above

Residence Requirement:

- ☐ Must be fulfilled by all transfer students (see p. 24).

## Program Outcomes

**Broadcasting:** This program of study qualifies students to seek careers in electronic media/radio-television broadcasting, and/or non-broadcast video or to apply for graduate study in mass communication, electronic media and radio-television broadcasting.

**Journalism:** This program of study qualifies students to seek careers in the field of journalism including writing, editing and designing newspapers, magazines, web sites and other publications or to pursue graduate study in journalism/mass communication.

**Organizational Communication:** This program of study prepares students for graduate study in Organizational Communication and other communication-related disciplines. This program also qualifies students to seek a variety of communication careers in leadership positions in a wide variety of industries and not-for-profit agencies.

**Public Relations:** This program of study qualifies students to seek careers in the public relations field for both for-profit and not-for-profit organizations, enter other related communication professions, or pursue graduate study in communication or related disciplines.

**Speech Communication:** This liberal arts program of study prepares the student to pursue graduate study in communication-related disciplines. This program may also prepare students to seek a variety of professional careers including broadcasting, social and human services, and government/politics.

## Communication Courses (COMM)

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### COMM 100 FUNDAMENTALS OF PUBLIC SPEAKING

5 hrs

Study and practice of the process of oral communication, its nature, background and performance. Realistic practice-speaking situations deal with subject matter of concern in our modern world.

### COMM 120 SMALL GROUP COMMUNICATION

5 hrs

The nature of the small group, problem-solving process. The student is given opportunities to practice participating in and leading discussion activities chosen from real-life situations.



**COMM 140/141 COMMUNICATION ACTIVITIES SEMINAR**

Individual and group instruction and participation in supervised creative activities.  
*May be repeated for credit.*

**COMM 140 DEBATE****1 hr****COMM 141 INDIVIDUAL EVENTS****1 hr****COMM 170 ORAL INTERPRETATION****3 hrs (alt. yrs.)**

Study in the theory and technique of the oral presentation of literature, including interpretation of text. Students will analyze and present selections from the three literary genres (prose, poetry and drama).

**COMM 180 INTERPERSONAL COMMUNICATION****5 hrs**

An introductory course which focuses on communication in informal and formal face-to-face settings (e.g., conversation, counseling, interviewing). Topics include self-concept and self-disclosure, perception of others, verbal and nonverbal messages, communication in relationships, and strategies for conflict resolution.

**COMM 190 MENTORING: THEORY AND PRACTICE****2 hrs**

This course focuses on the principles, practices, and applications of mentoring as a primary human activity which incorporates a variety of leadership theories aimed at transforming the person who is being mentored and the person who is doing the mentoring. Students enrolled in the courses will mentor younger students—typically elementary, middle school, or high school students—through an established college or community program. The course takes students through an incremental process that moves them from practicing simple mentoring techniques to developing and promoting mentoring initiatives. The mentoring course requires the students to be enrolled for two quarters of a single academic year. In addition to meeting with the professor weekly throughout both quarters, students are required to mentor students in one of the College's weekly community service programs for three hours per week during 8 weeks of each of the 10-week quarters. Also, during the second quarter the class meets, students will train other college and high students to mentor. *Prereq: Permission of the instructor*

**COMM 200 INTRODUCTION TO HUMAN COMMUNICATION****5 hrs**

An introduction to the theory-building process and important theories and perspectives of human communication. *Prereq: COMM 100 or 280, sophomore standing.*

**COMM 215 PRINCIPLES OF PUBLIC RELATIONS****5 hrs**

An introduction to the field of public relations, including the nature and responsibilities of public relations, and an overview of the public relations process in organizations and society. *Open to sophomores, juniors and seniors only.*

**COMM 220 INTERCULTURAL COMMUNICATION****5 hrs**

With the goal of understanding the perspectives of other cultures and resolving possible conflicts, students will examine the role of perception, language, belief systems, social structures and culture practices in cross-cultural interactions. Applications will be made to specific cultures. The approach in this course goes beyond talk about



forming better multicultural communities to the development of action-oriented communication strategies that positively effect community.

### **COMM 250 PRINCIPLES OF INTERVIEWING**

5 hrs

Study and practice of the interview process, discovery and understanding of principles for more effective interviewing and guided practice in application of such principles. Experiences in interview preparation, process and evaluation are combined with observation, analysis and critiques of self and others. *Prereq: COMM 100 or 180 or 280 or 285.*

### **COMM 280 BUSINESS AND PROFESSIONAL SPEECH**

5 hrs

An introduction to oral communication skills with applications to careers in business and professional organizations. Specific skills developed would include: interviewing (both employment and other forms), group discussion and problem-solving methods, listening and presentational speech (with special focus on technical and sales presentations). Content will include: general communication and organizational theory; principles of perception; language and nonverbal communication; and principles/techniques of information transmission and persuasion. *Not open to students who have credit for COMM 100.*

### **COMM 285 COMMUNICATION SKILLS FOR ORGANIZATIONS**

5 hrs

A skills development course and general introduction to the organizational communication field of study. Organizational system levels including interpersonal, group and organizational are examined from a human communication perspective. Developing competency in communication practices and techniques at each level is the main emphasis of this course. *Prereq: COMM 100 and COMM 180. Not open to students who have credit for COMM 280.*

### **COMM 305 INTERPRETING COMMUNICATION RESEARCH**

5 hrs

Introduction to strategies for discovering and interpreting communication research, including experimental, field study, case study, ethnographic and critical methods. *Prereq: COMM 200, junior standing.*

### **COMM 310 PUBLIC RELATIONS TECHNIQUES**

5 hrs

An application of basic public relations techniques, tools and theories. Emphasis on planning, executing and evaluating public relations messages. *Prereq: COMM 215, JOUR 175, 260; or permission of the instructor.*

### **COMM 320 FAMILY COMMUNICATION**

5 hrs

Communication perspectives that recognize the diversity of family experience are emphasized. Relational meanings and roles, defining intimacy, power and conflict, adaptability to crisis and change will be some of the topics considered in the investigation of family interaction processes. Practical, theoretical and research-oriented applications will provide healthy approaches and a baseline for ongoing study of family communication. *Prereq: COMM 180 or permission of instructor.*



**COMM 330 ADVANCED PUBLIC SPEAKING****5 hrs (alt. yrs.)**

An advanced course in public speaking skills, with emphasis on content, organization, delivery and style. Includes extensive practice in a variety of speech settings and purposes. *Prereq: COMM 100 or permission of the instructor.*

**COMM 335 PERSUASION****5 hrs**

A study of rhetorical and psychological theories of persuasion, with special attention to motivation and audience factors. Includes application to the development, presentation, analysis and testing of written and oral persuasive messages and persuasive campaigns. *Prereq: Junior standing and COMM 200. COMM 305 is recommended.*

**COMM 350 RHETORICAL THEORY AND CRITICISM****5 hrs**

This course is designed to orient students to the nature and function of rhetorical criticism, to acquaint the student with those elements in the rhetorical situation that warrant serious attention, and to teach the student a useful strategy with which to practice criticism. *Prereq: COMM 200 or permission of instructor.*

**COMM 360 ARGUMENTATION AND ADVOCACY****5 hrs**

Study and practice of theories of argument, including the nature of argument, logical proof, organization of argument, standards for evidence and refutation tactics. Application includes formal classroom debates on contemporary issues.

**COMM 361 THE EMERGING LEADER****5 hrs**

Assessment of personality type and styles of interaction and problem solving; Creation of a "personal vision statement"; Clarification of personal values and how differing value structures among people impact relationships; Understanding conflict styles and learning how to collaborate; Examination of effective leadership principles, actions, and behaviors; Development of your individual capacity to lead; Development of communication skills that express leadership; Making and keeping promises with integrity.

**COMM 362 LEADERSHIP CONCEPTS****5 hrs**

Our "concept" of organization shapes how we communicate, how we lead, manage, and participate. Our concept of "leadership" determines how we see ourselves inside the organization. In this course, you will distinguish and examine your preconceived notions about yourself, others, and the world so that you may expand your opportunity for new action. Focus is on creating vision, aligning people and action, and producing breakthrough results. *Prerequisite: COMM 361 OR 380.*

**COMM 363 PRACTICING LEADERSHIP****3 hrs**

Each participant will choose an area he or she wishes to impact in the workplace or in the community at large, then design a "breakthrough project" that will be the context for being a leader in that community. The project is the practice field for applying the distinctions and practices of leadership: Creating a vision, aligning people with that vision, creating a team, communicating, networking, and causing results with others. *Prerequisites: COMM 361 and 362 or permission of instructor.*



### **COMM 364 LEADERSHIP PROJECT**

2 hrs

Using the model of Appreciative Inquiry, each participant chooses a particular audience (or set of audiences) and conducts a series of interviews that clarify values, create participation, engagement, and excitement for the future, and create new possibilities for action. This course is usually taken in conjunction with COMM 363 and focuses on the Leadership Breakthrough Project chosen for that course. *Prereq: COMM 361 and COMM 362 or permission of instructor.*

### **COMM 365 TOPICS IN LEADERSHIP**

5 hrs

The purpose of this course is to take the concepts and principles learned in the previous leadership courses and apply them beyond our individual worlds. This will be accomplished through a discussion of various topics that look at 1) the leader, 2) the followers, 3) the situations in which leadership occurs, and most importantly 4) the multifaceted interactions among these components. We will do this together through the use of case studies, scientific studies of leadership, and experiential exercises. *Prereq: COMM 361, 362, 363, 364.*

### **COMM 370 COMMUNICATION PRACTICUM**

1 hr

Experience gained by guided intern work in College departments, such as Communication, College Relations, Student Personnel, Admission and Campus Programming. *Instructor's permission needed for off-campus experience. Repeatable to a maximum of five credits.*

### **COMM 380 ORGANIZATIONAL COMMUNICATION**

5 hrs

The study of communication patterns and practices which impact organizational life. A case study approach allows students to analyze and critique organizational conditions from various communication perspectives and consider strategies for improvement. *Prereq: COMM 200; and 100, 280 or 285. BADM 300 is recommended.*

### **COMM 385 GROUPS IN ORGANIZATION**

5 hrs

This course investigates the use of groups and teams in the organizational context. We will examine theory on group formation, socialization, effectiveness, and leadership, as well as other topics. Students will learn the appropriate and effective use of groups in the workplace, common obstacles to group effectiveness, and the impact of technology on current and evolving forms of groups. In a final project, students will be asked to apply these constructs to the analysis of an existing group. *Prereq: Junior or Senior standing or permission of the instructor*

### **COMM 390 INDEPENDENT STUDY**

1-5 hrs

Individual research projects for qualified students. *Prereq: permission of the instructor.*

### **COMM 400 PUBLIC RELATIONS CASE STUDIES**

5 hrs

A study of case problems in public relations, with special emphasis on designing and implementing public relations campaigns. The course will study past problems and strategies and also provide the student with the opportunity to analyze and critique effective/ineffective public relations programs. *Prereq: COMM 215 and JOUR 260.*



### **COMM 415 PUBLIC RELATIONS RESEARCH, PLANNING & STRATEGIES**

5 hrs

The study of public relations research, plan and proposal development, and strategy implementation. Students will become involved in actual research, goal setting and specific strategy development in identifying and planning to meet the public relations needs of an organization. *Prereq: COMM 215 and COMM 310.*

### **COMM 480 ORGANIZATIONAL COMMUNICATION CASE STUDIES**

5 hrs (alt. yrs.)

The study of assessment practices, theory application and strategy development from an organizational communication perspective. Case study writing will be used to identify communication functions and structures in organizations. Practical application of diagnosis, analysis, recommendations and intervention strategies, relevant to various organizational contexts, will be emphasized. *Prereq: COMM 380 and COMM 305.*

### **COMM 490 INTERNSHIP**

1-15 hrs

Internships are available in a variety of organizations and activities related to the major. Information about available internships and requirements may be obtained from the department office of any faculty member. *Prereq: Permission of a faculty advisor in the department.*

### **COMM 498 SENIOR PORTFOLIO**

2 hrs

This course requires Speech Communication, Public Relations, Broadcasting, Organizational Communication and Journalism majors to create, edit and select a sampling of their best work over a four-year period for compilation into a portfolio which will be presented by the student to the faculty in a public venue. Students select at least five samples of work derived from specific courses and interests within their majors, and work which is created in fields other than their majors. The portfolios should showcase both knowledge, skills and attitudes acquired by the students in their education and personal/professional growth. Students must include a narrative with the completed portfolio which demonstrates their own insights into the submitted work and their evaluation of themselves as thinkers, writers and communication professionals. *Prereq: COMM 305 and senior standing.*

### **COMM 499 COMMUNICATION AND SOCIETY**

3 hrs

A seminar course focusing on the interaction between communication and human societies. Topics for the seminar are selected by students enrolled in the course. *Prereq: COMM 305 and senior standing.*

## **Journalism Courses (JOUR)**

### **JOUR 140 NEWSPAPER PRACTICUM (TAN & CARDINAL)**

1 hr

Supervised reporting and writing for the weekly student newspaper. Students attend weekly staff meetings and write stories based on covering campus beats. *Repeatable to a maximum of 6 credits.*



### **JOUR 160 MEDIA WRITING**

5 hrs

Techniques of journalistic and mass communication writing and information gathering designed to develop the basic writing skills for the media, with applications in journalism, broadcasting and public relations. *Prereq: keyboarding skills.*

### **JOUR 175 PUBLICATION DESIGN**

5 hrs

An introduction to typography and layout in printed journalistic communications, including use of computer desktop publishing programs. Desktop techniques will be used to produce publications, including brochures and newsletters. *Credit not available to students who have completed JOUR 265.*

### **JOUR 260 NEWS WRITING AND REPORTING**

5 hrs

Reporting and writing of news stories for publication. Emphasis on interviewing, generating story ideas, and beat reporting. *Prereq: A grade of B- or better in JOUR 160.*

### **JOUR 275 NEWS DESIGN FOR MULTI-MEDIA**

5 hrs

Evaluation and execution of multi-media design and image-editing. *Prereq: JOUR 175 or JOUR 265. Credit not available to students who have completed JOUR 165.*

### **JOUR 340 ADVANCED PRACTICUM IN JOURNALISM**

1 hr

Upper-level journalistic skill development by working on the production of the Tan and Cardinal, Otterbein's weekly student newspaper. Skills include managing student staff, fine-tuning written content, overseeing weekly conversion to web content, managing photography production, coordinating advertising sales and managing graphic production. *Course may be repeated once for a maximum of three credits. Prereq: JOUR 140 and permission of instructor.*

### **JOUR 360 COMPUTER-ASSISTED REPORTING**

5 hrs

Study and practice of research methods and writing technique for in-depth reporting on topical issues including public affairs and specialized reporting areas. *Prereq: JOUR 260.*

### **JOUR 375 ADVANCED PUBLICATION DESIGN**

5 hrs

Application of design principles and desktop publishing techniques in the production of a variety of printed communications including newspaper and magazines. *Prereq: JOUR 175 and 265. Credit not available to students who have completed JOUR 365.*

### **JOUR 390 INDEPENDENT STUDY**

1-5 hrs

Individual research projects for qualified students. *Prereq: permission of the instructor.*

### **JOUR 460 MAGAZINE FEATURE WRITING AND PUBLISHING**

5 hrs

This course covers the fundamentals of feature writing and the magazine publishing industry, including how to write features for magazines of all types—from trade publications to on-line magazines—production processes, magazine print and on-line design, magazine advertising, staffing and organizational issues, legal concerns and ethics. *Prereq: JOUR 160 and 260.*



**JOUR 490 INTERNSHIP****1-15 hrs**

Internships are available in a variety of organizations and activities related to the major. Information about available internships and requirements may be obtained from the department office of any faculty member. *Prereq: Permission of a faculty advisor in the department.*

**Mass Communication Courses (MCOM)****MCOM 110 RADIO/AUDIO PRODUCTION****5 hrs**

Study and practice in operation of radio station equipment: production of broadcast materials using voice, music and sound effects. Includes a discussion of principles of editing, directing and production criticism. Prepares students for on-air assignments with WOBN. *Suggested co-requisite: MCOM 140.*

**MCOM 120 FUNDAMENTALS OF TELEVISION/VIDEO PRODUCTION****5 hrs**

Introductory course in television and video production theory and techniques. Emphasis on the study of the elements and processes involved in various applications of broadcast and non-broadcast video production. Performance in roles of the television production team. Prepares students for positions with WOCC.

**MCOM 130 RADIO/TELEVISION PERFORMANCE****5 hrs**

Study and practice in audio and video performance. Special attention given to news, commercials, and interviewing. Includes work in voice, nonverbal communication, scripting, hand signals and interpretation of copy. *MCOM 110 or 120 recommended.*

**MCOM 140/141 MASS COMMUNICATION ACTIVITIES SEMINAR**

Individual and group instruction and participation in supervised creative activities. *May be repeated for credit, total credit for activities seminar and Advanced Practicum in Media not to exceed six hours.*

**MCOM 140 RADIO (WOBN FM)****1 hr****MCOM 141 TELEVISION (WOCC-TV 3)****1 hr****MCOM 240/241 BROADCAST MANAGEMENT PRACTICUM**

Practical experience in media management by serving as administrators for the campus radio and TV stations in areas of programming music, news, sports, public service, engineering and public relations. *May be repeated for credit, total credit for activities seminar and Advanced Practicum in Media not to exceed six hours. Prereq: Permission of the department.*

**MCOM 240 RADIO (WOBN FM) STAFF HEADS****1 hr****MCOM 241 TELEVISION (WOCC-TV 3) STAFF HEADS****1 hr****MCOM 261 COPYWRITING FOR ELECTRONIC MEDIA****5 hrs**

Students will learn concepts, theories and practices associated with various types of short-form writing for audio and video. Emphasis is placed on commercial and



promotional copy, public service announcements, fostering client relationships and market considerations. *Prereq: MCOM 110 or 120*

### **MCOM 265 MEDIA AND SOCIETY**

**5 hrs**

An examination of the structures, functions, and performance of media institutions. Analysis of contemporary media practices and effects with particular consideration of First Amendment freedoms and communication theory and research. *Prereq: COMM 200.*

### **MCOM 270 RACE, GENDER, CLASS AND MEDIA**

**5 hrs**

This course examines the historical and contemporary constructions of gender and race in media as well as issues related to the reception of such constructions. Students will analyze media representations of race and gender and audiences defined in some way by race and gender. Students will also consider industry issues inherent in representation and reception as well as questions of individual media effects. *Prereq: Sophomore standing*

### **MCOM 320 ADVANCED VIDEO PRODUCTION**

**5 hrs**

Advanced study of theory and practice in video production. Emphases include: aesthetics, single-camera production theory and techniques, non linear editing, post-production, and troubleshooting. *Prereq: MCOM 120.*

### **MCOM 341-349 ADVANCED PRACTICUM IN MEDIA**

Individualized projects, selected in consultation with a faculty member, that provide students with focused, advanced study and practice in one aspect of media. The practicum is designed to build upon the students' experiences gained in media activities and introductory courses. *Prereq: Permission of instructor and either (a) MCOM 110 and 140; or (b) MCOM 120 and 141. Each course may be taken only once for credit.*

<b>MCOM 341</b> WOBN Programming Practicum	1 hr
<b>MCOM 342</b> WOBN Promotions Practicum	1 hr
<b>MCOM 343</b> WOBN Studio/Remote Production Practicum	1 hr
<b>MCOM 344</b> WOBN Station Operations Practicum	1 hr
<b>MCOM 345</b> WOCC Technical Operations	1 hr
<b>MCOM 346</b> WOCC Television News Practicum	1 hr
<b>MCOM 347</b> WOCC Producing Practicum	1 hr
<b>MCOM 349</b> Research Project in Mass Communication	1 hr

### **MCOM 360 BROADCAST NEWS**

**5 hrs**

The study of news gathering, writing and reporting for broadcast production. News programming and news room practices are examined. Students will gain practical experience with WOBN and WOCC News. *Prereq: JOUR 160, MCOM 110 and MCOM 120; or permission of instructor. Not open to students who have received credit for MCOM 340.*

### **MCOM 365 MEDIA CRITICISM AND AUDIENCE ANALYSIS**

**5 hrs**

Examination of programming and content development principles and strategies for broadcast and new media, with emphasis on audience appeals, program structures,



ratings and other forces influencing media decision-making. *Prereq:* MCOM 110 and 140; or MCOM 120 and 141.

### **MCOM 390 INDEPENDENT STUDY**

Individual research projects for qualified students. *Prereq:* Permission of the instructor. **1-5 hrs**

### **MCOM 410 MEDIA ETHICS AND REGULATION**

A seminar course which explores issues in media ethics, regulation and law, including the scope of the 1st Amendment; conflicts between free-press and free-trial, obscenity, copyright, etc.; the nature of the regulatory process and social effects of the media. *Prereq:* (a) COMM 200 and JOUR 260; or (b) COMM 200, MCOM 110 and MCOM 120; or permission of instructor. **5 hrs**

### **MCOM 450 CASE STUDIES IN MEDIA**

An analytical examination of contemporary issues and problems confronting media managers. An emphasis on case studies illustrating the interrelationships in a media operation, and the forces influencing decision-making. *Prereq:* (a) COMM 200, MCOM 110, a 300-level MCOM practicum and MCOM 120; or (b) COMM 200, JOUR 260 and a 300-level JOUR practicum. **5 hrs**

### **MCOM 490 INTERNSHIP**

Internships are available in a variety of organizations and activities related to the major. Information about available internships and requirements may be obtained from the department office of any faculty member. *Prereq:* Permission of a faculty advisor in the department. **1-15 hrs**



# Education

*Deringer (chairperson), Cho, Constable, Fayne, Gardiner, Knoblauch, Lightbody, McDaniel, Robinson, Ross, Ryan, Stewart, Weiss.*

The Teacher Education Program has been accredited by NCATE (National Council for the Accreditation of Teacher Education) since 1967.

## **Mission and Programs**

Mission Statement: "Maximizing the Potential of All Learners"

The professional education unit of Otterbein College is committed to providing a coherent, developmentally-based teacher education program that prepares teachers to create and work within learning communities which maximize the potential of all learners. The program promotes collaborative learning and critical reflection as a way to develop a community of life-long learners who can respect diverse perspectives, make informed decisions, and be responsive to the changing needs of children in our society.

Guiding our programs are our shared beliefs in:

- Power of Knowledge
- Interdependency of Pedagogy and Content
- Potential of All Children
- Richness of Diversity
- Possibilities of Technology
- Necessity of Reflection
- Merit of Experiential Learning
- Importance of Accountability.

Performance Criteria for Teacher Education Candidates:

All Teacher Education candidates are evaluated throughout the program on 10 Standards adapted from INTASC and ODE, including:

- Subject Matter
- Student Learning
- Diverse Learners
- Planning Instruction
- Instructional Strategies
- Learning Environment
- Communication
- Assessment
- Reflection and Professional Development
- Collaboration, Ethics, and Relationships

Candidates are also evaluated on 10 Critical Dispositions essential to successful teaching, including:

- Hard-working
- Resourceful
- Principled



- Open-minded
- Collegial
- Inquisitive
- Flexible
- Positive
- Social
- Organized

### **Degrees offered in Teacher Education**

- Bachelor of Science in Education (B.S.E.) with majors in Early Childhood Education or Middle Childhood Education;
- Master of Arts in Teaching (MAT): Graduates holding a non-education baccalaureate degree from an accredited program and wishing to combine Middle Childhood Licensure (grades 4-9) with a masters program may contact the Education Advisor in the Office of Continuing Studies for information about our MAT program. In addition to graduate coursework, candidates must complete two teaching areas. Additional information is described in the Graduate Studies in Education Bulletin.
- Master of Arts in Education (MAE): Licensed teachers wishing to pursue a graduate degree in Curriculum & Instruction or Reading may contact the Education Advisor in the Office of Graduate Programs. Elective strands in Middle Childhood Education, Technology, or individually designed Professional Development are available, as are endorsements in Reading or TESOL (Teaching Speakers of Other Languages). Teachers may also pursue non-degree programs for recertification. Additional information is described in the Graduate Studies in Education Bulletin.

### **Licensure Programs**

The Department of Education offers teacher licensure in the following areas through undergraduate degree programs or post-baccalaureate (licensure only) programs:

**Early Childhood (Pre-K – 3) – Candidates select one concentration area**

- French or Spanish
- Intervention Specialist (license, Pre-K- grade 3)
- Language Arts
- Language/Culture: Deaf Community
- Mathematics
- Reading (Endorsement Pre-K- grade12)
- Science
- Social Studies

**Middle Childhood (Grades 4-9) – Candidates select two teaching areas**

- Reading/Language Arts
- Social Studies
- Mathematics
- Science



Adolescence to Young Adult (AYA, grades 7-12)

- Integrated Language Arts
- Integrated Mathematics
- Integrated Social Studies
- Life Sciences
- Physical Sciences

Multi-Age (Grades Pre-K – 12)

- French Language
- Spanish Language
- Health Education
- Physical Education
- Music Education
- Visual Arts

Optional endorsements/license that may be added to standard teaching licenses:

- Middle Childhood Generalist Endorsement may be added to a Middle Childhood License to teach all four core subjects in grades 4-6
- Reading Endorsement for grades Pre-K-12 may be added to any standard license
- Early Childhood Intervention Specialist License may be added to an Early Childhood License and is valid for teaching learners with mild/moderate/intensive educational needs and for providing service coordination for ages three through eight and Pre-K through grade three.

**School Nurse:** All candidates for the Multi-Age Ohio School Nurse License must hold a license as an RN valid for practice in Ohio. A baccalaureate degree in nursing from an accredited program is also required. See the Teacher Education Program booklet for program details. The written approval of the Chair of the Nursing Department is required before applicants can register for classes or the Student Teaching Practicum. Contact the Education Advisor in the Office of Continuing Studies for more information.

**Post-baccalaureate teaching licensure:** Graduates holding a non-education baccalaureate degree from an accredited program and wishing to pursue teaching licensure may contact the Education Advisor in the Office of Continuing Studies for information about our post-baccalaureate licensure program. A limited number of applicants are admitted each year.

### **Eligibility for Teacher Education**

Enrollment in EDUC 160 — Study of the School: 2.5 overall GPA and permission of the department are required.

Enrollment in EDUC 200/220 — Educational Psychology: 2.5 overall GPA, qualifying standardized test scores (see below), and permission of the department.

Admission to the Teacher Education Program is required and separate from admission to the college; students generally apply during EDUC 200 or 220 their sopho-



more year and are considered by the Teacher Education Committee the following quarter. Criteria for admission to Teacher Education include:

- A minimum of 44 quarter hours of college level work
- Post-evaluation 2.5 overall GPA from all institutions
- Post-evaluation 2.5 GPA in curriculum content area courses for ECHD and in concentration/teaching area(s) for MCHD and AYA/Multi-age
- ACT scores of 20 or higher in English and Mathematics OR SAT scores of 500 or higher in Critical Reading and Mathematics OR Praxis I scores of 172 or higher on Writing and Mathematics
- Positive recommendations from persons listed below, which will be used to assess critical dispositions, motivation, and content knowledge:
  - ☐ EDUC 160 instructor and cooperating teacher(s)
  - ☐ EDUC 200/220 instructor and tutoring supervisor
  - ☐ A member of the Otterbein faculty or staff, chosen by the student; it is the student's responsibility to request the recommendation and make sure it has been submitted to the Education Department prior to the quarter in which the student's application will be reviewed. Forms are available in the Education Office.
  - ☐ The Chairperson of the teaching area department (AYA and Multi-age candidates.)
- Proficiency in oral and written communication as evidenced by a "C" or better in both COMM 100 – Fundamentals of Public Speaking – and a college level composition course;
- The Teacher Education Committee may consider other data related to success in teaching at the option of the Committee. Additional information is available in the Teacher Education Program booklet, available in the Education Department in Roush Hall, or by calling 614-823-1214.

Eligibility is again checked prior to candidates being enrolled in Methods courses and prior to student teaching, including evaluation of specific components of electronic portfolio at designated points – see Teacher Education Program booklet for current requirements. Teacher education candidates may be dropped from the teacher education program after having been admitted if they fail to maintain the standards for admission. Candidates must have positive recommendations from field placements to continue in the program. Candidates needing more time to demonstrate competencies needed for teaching may be required to take an extra field experience, EDUC 400. Fingerprinting and background check are required prior to beginning the student teaching experience. See Department for details.

### **Exit Requirements to be Recommended for Licensure**

- Successful completion of Student Teaching, including all field requirements and positive performance evaluations;
- Successful completion of the Senior Year Experience (SYE) Seminar, Seminar assignments, and SYE paper;
- Successful completion of electronic portfolio;
- Completion of all required coursework, including a "C" grade in all Professional Education courses and required field experiences;



- Verification of GPA requirements (see Admission to Teacher Education criteria);
- Current fingerprinting and background check are required to be recommended for licensure;
- Application for graduation/program completion through Registrar two quarters before completion of program;
- Successful completion of Praxis II examinations required for your licensure area(s) – see Education Department for current information.

### Transfer Students

Requirements for all students transferring in as intended Education majors:

- Post-evaluation 2.5 overall GPA from all institutions;
- Post-evaluation 2.5 GPA in concentration/teaching area(s) for Middle Childhood and AYA/Multi-age licensure;
- ACT scores of 20 or above on both English and Math, OR SAT scores of 500 or above on both Critical Reading and Math, OR Praxis I score of 172 or above on writing and mathematics – see Teacher Education Program booklet for current requirements;
- Recommendation of Transfer Counselor in College Admission Office.

### Changes of Major

Freshmen who have 44 quarter hours or less may change majors/programs at any time, with approval of the department;

Students having 45 quarter hours or more must meet the same criteria as transfer students (see above), and need department approval. **Students who change licensure areas or teaching areas (MCHD, AYA, and Multi-Age) after admission to teacher education must reapply. See the Education Department for details.**

### Field/Clinical Hours

Hours outside of classes are required in schools and in learning experiences on campus or elsewhere which allow candidates to learn to apply the knowledge, skills, and dispositions required to be a teacher. This requires careful planning and scheduling. See the Teacher Education Program booklet and course descriptions for more information.

### Special Program Fees and Requirements

- Students taking any courses held in computer labs will be assessed a lab fee, according to the college lab fee schedule.
- All students will be required to subscribe to an electronic portfolio service throughout their program in order to complete coursework and portfolio requirements. See the Education Department for current information.
- All student teachers are assessed a fee of \$250 during the quarter they are student teaching.
- All student teachers are required to complete a fingerprinting/background check prior to student teaching. Fingerprinting/background checks may be required for earlier field experiences, depending on the requirements of the



school districts at the time of their placement. See the Education Department for more information.

### Special Off-Campus Student Teaching Opportunities

Students may apply for special student teaching opportunities that will enhance their exposure to diverse cultures and experiences. They include placements at McCurdy School in New Mexico, and Derby, England. Students desiring a year-long teaching experience in conjunction with student teaching may apply for the Gahanna Internship. See the section on Off-campus opportunities in this catalog, and contact the Education Department for more information.

### Advising

- Early Childhood and Middle Childhood majors are typically advised by Education faculty;
- Adolescence to Young Adult (AYA) and Multi-Age licensure candidates

### B.S.E. degree with a major in Early Childhood Education

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - Educ 470, a course required in the major, satisfies this requirement (includes student teaching and a weekly seminar).

*Requirements in the major (123 or more hrs or equivalent):*

- |  |  |
|--|--|
| <input type="checkbox"/> ART 290 or MUSC 270 - 5 hrs | <input type="checkbox"/> EDUC 350 - 3 hrs        |
| <input type="checkbox"/> COMM 100 - 5 hrs            | <input type="checkbox"/> EDUC 451 - 3 hrs        |
| <input type="checkbox"/> EDUC 160 - 4 hrs            | <input type="checkbox"/> EDUC 465 - 4 hrs        |
| <input type="checkbox"/> EDUC 170 - 5 hrs            | <input type="checkbox"/> EDUC 360 or 365 - 2 hrs |
| <input type="checkbox"/> EDUC 220 - 5 hrs            | <input type="checkbox"/> EDUC 470 - 15 hrs       |
| <input type="checkbox"/> EDUC 230 - 3 hrs            | <input type="checkbox"/> EDUC 470.11 - 1 hr      |
| <input type="checkbox"/> EDUC 240 - 4 hrs            | <input type="checkbox"/> HLED 250 - 3 hrs        |
| <input type="checkbox"/> EDUC 250 - 4 hrs            | <input type="checkbox"/> MATH 150 - 5 hrs        |
| <input type="checkbox"/> EDUC 320 - 9 hrs            | <input type="checkbox"/> MATH 270 - 5 hrs        |
| <input type="checkbox"/> EDUC 325 - 5 hrs            | <input type="checkbox"/> PHED 211 - 3 hrs        |
- ☐ INST 130 (or PSYC 100 may be substituted) and INST 160 - 5 hrs (these two courses are actually a total of 10 hours, but five of these hours are already included in the 50 INST hrs shown above in the Core Curriculum)
  - ☐ In order to complete the 18 hour Ohio Department of Education requirement in Reading, students must complete a five hour Reading course beyond the EDUC 170/325/350 core. See the Teachers Education Programs booklet for options.
  - ☐ concentration area in French, Intervention (leading to Early Childhood Intervention Specialist license), Language Arts, Language and Culture of the Deaf Community, Mathematics, Reading (leading to endorsement in reading), Science, Social Studies or Spanish - at least 30 hrs
  - Specific courses for the concentration areas are listed in the *Teacher Education Programs* booklet.



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

***B.S.E. degree with a major in Middle Childhood Education***

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - Educ 471, a course required in the major, satisfies this requirement (includes student teaching and a weekly seminar).

*Requirements in the major (138 or more hrs or equivalent):*

- |   |  |
|---|--|
| <input type="checkbox"/> COMM 100 - 5 hrs | <input type="checkbox"/> EDUC 340 - 3 hrs        |
| <input type="checkbox"/> EDUC 160 - 4 hrs | <input type="checkbox"/> EDUC 341 - 3 hrs        |
| <input type="checkbox"/> EDUC 170 - 5 hrs | <input type="checkbox"/> EDUC 342 - 9 hrs        |
| <input type="checkbox"/> EDUC 200 - 5 hrs | <input type="checkbox"/> EDUC 360 or 365 - 2 hrs |
| <input type="checkbox"/> EDUC 210 - 2 hrs | <input type="checkbox"/> EDUC 363 - 3 hrs        |
| <input type="checkbox"/> EDUC 315 - 3 hrs | <input type="checkbox"/> EDUC 450 - 3 hrs        |
| <input type="checkbox"/> EDUC 335 - 5 hrs | <input type="checkbox"/> EDUC 471 - 15 hrs       |
| <input type="checkbox"/> MATH 150 - 5 hrs | <input type="checkbox"/> EDUC 471.11 - 1 hr      |
- ☐ INST 130 (or PSYC 100 may be substituted) - these hours are already included in the 50 INST hrs shown above in the Core Curriculum
  - ☐ In order to complete the 18 hour Ohio Department of Education requirement in Reading, students must complete a five hour Reading course beyond the EDUC 170/335/363 core. See the Teacher Education Programs booklet for options.
  - ☐ two concentration areas of at least 30 hrs each in Language Arts, Mathematics, Science and Social Studies - at least 60 hrs
  - Specific courses for the concentration areas are listed in the *Teacher Education Programs* booklet.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Adolescence to Young Adult Licensure (grades 7-12) and Multi-Age Licensure (PreK - 12):** Students pursuing teacher licensure for grades 7-12 or PreK - 12 are majors in their teaching area(s), pursuing the appropriate degree for that major, and should refer to major requirements in their department. Requirements for students seeking teacher licensure are listed in the *Teacher Education Program* booklet available in the Education Department, 430 Roush Hall. Requirements for the department



major and teacher licensure may differ somewhat, but both must be met to become licensed, and the major must be completed to receive a Bachelor's degree. Post-baccalaureate students must meet only licensure requirements. To be recommended for teacher licensure, students must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

### **Program Outcomes**

The programs offered lead to two year provisional Early Childhood, Middle Childhood, Adolescence to Young Adult, or Multi-age licenses. Programs are designed to meet performance standards in the 10 areas established by the Ohio Department and INTASC of Education (Subject Matter, Student Learning, Diverse Learners, Planning Instruction, Instructional Strategies, Learning Environment, Communication, Assessment, Reflection and Professional Development, and Collaboration, Ethics, and Relationships), to prepare beginning teachers to demonstrate success in each of the 10 areas, and to provide a strong, undergraduate foundation for later graduate work.

### **Education Courses (EDUC)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391, 398, or 491.

#### **EDUC 160 STUDY OF THE SCHOOL**

**4 hrs**

Through extensive readings, research and a field experience in a public school, this foundations course lays groundwork for conceptualizing how education promotes social justice and democracy. Students examine the philosophical and historical foundations of education as well as the social, cultural, and political contexts that shape education. Students analyze how educational foundations and societal issues manifest in schools. 70 field hours required. *Prereq: Overall 2.5 GPA or better and permission from the department. Sophomore standing or above required to enroll Autumn quarter. Teacher candidates must achieve a grade of C or better and a positive recommendation to progress in the program.*

#### **EDUC 170 PHONICS AND THE STRUCTURE OF LANGUAGE**

**5 hrs**

Through readings and other media, students will understand the process of language acquisition, recognize how languages change over time, how language is socially and culturally influenced. Students will also learn how to assess and teach phonics in the context of a comprehensive literacy program. 5 clinical hours required. *Teacher candidates must receive a grade of C or better.*

#### **EDUC 200 EDUCATIONAL PSYCHOLOGY**

**5 hrs**

A study of physical, cognitive, social/emotional, and moral development and the impact of developmental regularities and variations on classroom practice. Other topics include: behavioral and cognitive views of teaching and learning; planning instruction; motivation; classroom ecology and management; traditional and alternative forms of



assessment. A minimum of 20 field hours in tutoring and 10 clinical hours required. *Prereq:* Department permission, including positive recommendation from EDUC 160; INST 130 or PSYC 100; ACT scores 20 or above on English and Math; OR SAT scores 500 or above on Critical Reading and Math; OR Praxis I scores 172 or above on Writing and Math. Teacher candidates must receive a grade of C or better and a positive recommendation to progress in the program. Note: For Middle Childhood, Adolescence to Young Adult and Multi-age licensure.

**EDUC 210 INTRODUCTION TO EDUCATIONAL TECHNOLOGY** 2 hrs  
Introduction to the historical, theoretical, and pedagogical rationales underlying the use of media and technology in the teaching/learning process. Includes technical skills and equipment involving materials production, instructional computing, multimedia, and telecommunications. 25 clinical hours required. *Prereq:* EDUC 160 or permission of the instructor. Teacher candidates must receive a grade of C or better. Note: Not required of students with credit in HLED 200 Health and Fitness Technologies or MUSC 205 Introduction to Music Education Technology

**EDUC 220 EDUCATIONAL PSYCHOLOGY FOR EARLY CHILDHOOD** 5 hrs  
A study of child growth, child development, and the principles of learning applied to early childhood education. Major focus is on using and interpreting informal and formal assessment strategies and communicating assessment data to parents. Developmentally appropriate curricular practices (instruction, materials, and environment) are explored. 20 field hours of tutoring and 10 clinical hours required. *Prereq:* Department permission, including positive recommendation from EDUC 160; INST 130 or PSYC 100; ACT scores 20 or above on English and Math; OR SAT scores 500 or above on Critical Reading and Math; OR Praxis I scores 172 or above on Writing and Math. Teacher candidates must receive a grade of C or better and a positive recommendation to progress in the program. Note: For Early Childhood licensure.

**EDUC 230 TECHNOLOGY AND EARLY CHILDHOOD** 3 hrs  
Course will focus on content and methods for teaching with computers and related technologies in the early childhood classroom. Included will be evaluation of children's software, technology for communication and recordkeeping in early childhood programs, and issues and standards related to young children and technology. Twenty-five clock hours of clinical experience are included. *Prereq:* EDUC 160 or permission of the instructor. Teacher candidates must receive a grade of C or better. Note: For Early Childhood licensure.

**EDUC 240 SOCIAL STUDIES IN THE PRIMARY AND INTERMEDIATE CLASSROOM** 4 hrs  
A study of social studies curriculum in primary and intermediate-level classrooms. Grounded in state and national standards, the focus is on the ten curricular strand themes from the National Council for Social Studies curriculum: (1) culture, (2) time, continuity, and change, (3) people, places, and environment, (4) individual development and identify, (5) individuals, groups, and institutions, (6) power, authority, and governance, (7) production, distribution, and consumption (8) science, technology,



and society, (9) global connections, and (10) civic ideals and practices. Methodology and materials appropriate for teaching social studies will also be discussed. *Prereq: EDUC 160. Teacher candidates must receive a grade of C or better.*

### **EDUC 250 SCIENCE IN THE PRIMARY AND INTERMEDIATE CLASSROOM**

**4 hrs**

A study of the basic levels of inquiry in life, earth, and physical science and the application of content at developmentally appropriate levels. Students will learn science content and how to differentiate science for students with different needs and backgrounds, learn how to manage science activities in the classroom, demonstrate an understanding of the nature of science and scientific inquiry, design and participate in collaborative science investigations, integrate technology, develop assessment plans for measuring understanding, and discuss specific science safety issues. 4 clinical hours required. *Prereq: EDUC 160. Teacher candidates must receive a grade of C or better.*

### **EDUC 315 INTEGRATING THE ARTS ACROSS THE MIDDLE CHILDHOOD CURRICULUM**

**3 hrs**

This studio, group discussion and lecture course will focus on strategies for integrating the visual and performing arts across the curriculum. Students will have an opportunity to practice applications of lesson planning, and to design a thematic unit which relies upon artistic expression on the part of elementary and middle school students. The intent of the course is to help classroom teachers see how the arts can motivate, enrich, and extend instruction in science, mathematics, social studies, and language arts. Students will be asked to spend five hours observing appropriate practice in schools. *Prereq: EDUC 160. Teacher candidates must achieve a grade of C or better.*

### **EDUC 320 EARLY CHILDHOOD CURRICULUM**

**9 hrs**

A study of methods and materials which are developmentally appropriate for young children. Major focus is on using strategies and creating environments to encourage children's development. Students will develop an integrated unit that synthesizes learning activities from the content areas in the early childhood curriculum. There is an emphasis on the use of responsible assessment procedures and the inclusion of children's families in the planning and implementation of instruction. The role of the early childhood professional in advocacy and ethical practice is also addressed. 100 field hours in an urban early childhood setting and 25 clinical hours are required. Students must have two full days or three half days available per week for the field experience in addition to class time. *Prereq: EDUC 220, Teacher Education Admission, and permission of the department. Teacher candidates must achieve a grade of C or better and a positive recommendation to progress in the program.*

### **EDUC 325 READING SKILLS AND METHODS FOR EARLY CHILDHOOD**

**5 hrs**

This course is grounded in and builds on knowledge and understanding of the linguistic foundations of literacy and of early childhood development. It focuses on methods, techniques, and materials of literacy instruction and assessment designed to foster pupils' growth toward greater autonomy and maturity as readers and writers. The



course emphasizes the thinking processes and decision making responsibilities of teachers as they create literacy learning environments that encourage active engaged learning, identify students' needs, and plan instruction that allows pupils to experience personally meaningful interactions and transactions as both readers and authors of texts across a range of genres and content areas and for a variety of purposes. The course includes 15 clinical hours. *Prereq: EDUC 170 and 220. Teacher candidates must achieve a grade of C or better.*

### **EDUC 335 READING SKILLS AND METHODS FOR MIDDLE CHILDHOOD**

**5 hrs**

This course is grounded in and builds on knowledge and understanding of the linguistic foundations of literacy and of middle childhood/adolescent development. It focuses on methods, techniques, and materials of literacy instruction and assessment designed to foster pupils' growth toward greater autonomy and maturity as readers and writers. The course emphasizes the thinking processes and decision making responsibilities of teachers as they create literacy learning environments that encourage active engaged learning, identify students' needs, and plan instruction that allows pupils to experience personally meaningful interactions and transactions as both readers and authors of texts across a range of genre and for a variety of purposes. The course includes 15 clinical hours. *Prereq: EDUC 200, and EDUC 170 or ENGL 295. Teacher candidates must achieve a grade of C or better.*

### **EDUC 336 READING FIELD EXPERIENCE**

**5 hrs**

A clinical/field and tutoring experience to strengthen instructional skills in remedial and developmental reading. Minimum of 100 clock hours experience. *Prereq: EDUC 170 and EDUC 200/220. Teacher candidates must achieve a grade of C or better.*

### **EDUC 340 RESPONSIVE SCHOOLS FOR YOUNG ADOLESCENTS**

**3 hrs**

Nature and needs of young adolescents, characteristics of responsive schools, resources for the middle child practitioner, characteristics of effective middle childhood teachers, and critical issues in middle level education are addressed in depth; reflection on personal beliefs, research, theory, and practice is encouraged. 20 field hours required. *Prereq: EDUC 200. Teacher candidates must receive a grade of C or better.*

### **EDUC 341 CURRICULUM FOR THE MIDDLE GRADES**

**3 hrs**

Students look closely at organizational structures of middle schools, including flexible scheduling, teaming, and integrated curriculum. The role of other stakeholders is also examined. Students develop an integrated unit. 20 field hours required. *Prereq: EDUC 200 and 340. Teacher candidates must receive a grade of C or better.*

### **EDUC 342 MIDDLE GRADES INTERDISCIPLINARY METHODS**

**3 hrs**

Students must concurrently enroll in the Interdisciplinary Methods course and in the two content-specific methods courses that reflect their concentration areas. In each of these courses students become acquainted with the appropriate Ohio Academic Content Standards, subject matter reflected on proficiency tests, interdisciplinary and subject-specific pedagogy, methods of assessment, and national standards that shape the teaching of the disciplines. Students study and implement long and short-term planning, the use



of expository, inquiry, and small group instructional strategies, the use of technology as an instructional resource, and elements of effective classroom management and discipline as they contribute to a sense of positive classroom climate. 100 field hours in an urban middle childhood setting in one of the teaching areas for which licensure is sought. 25 clinical hours required. *Prereq: EDUC 200, Teacher Education Admission, and permission of the department. Teacher candidates must receive a grade of C or better and a positive recommendation to progress in the program.*

**EDUC 342.20 MIDDLE GRADES LANGUAGE ARTS METHODS 3 hrs**

Topics include, but are not limited to, the structure, construction of meaning, application and multidisciplinary issues of reading, writing, listening, visual literacy, and oral communication for middle grades language arts instruction.

**EDUC 342.30 MIDDLE GRADES MATH METHODS 3 hrs**

Topics include, but are not limited to, problem solving, reasoning, communication of mathematical concepts, and the use of manipulatives and technology as they pertain to mathematics in the middle grades mathematics curriculum.

**EDUC 342.40 MIDDLE GRADES SCIENCE METHODS 3 hrs**

Topics include, but are not limited to, study of methods by which scientific inquiry and knowledge are presented within the middle grades science curriculum and the conditions under which science learning may be applied.

**EDUC 342.50 MIDDLE GRADES SOCIAL STUDIES METHODS 3 hrs**

Topics include, but are not limited to, means by which the themes of American heritage, people in societies, world interactions, decision making and resources, the democratic processes and citizenship rights and responsibilities may be developed within the middle grades social studies curriculum.

**EDUC 350 CHILDREN'S LITERATURE IN A COMPREHENSIVE READING PROGRAM**

**3 hrs**

Through extensive reading and library research, students will develop a knowledge base for selecting culturally inclusive and developmentally appropriate children's literature. Students will read and study the genres of children's literature, learn to recognize bias and stereotyping in literature, select children's literature that promotes equity and representation, and learn student-centered practices for utilizing literature in a classroom. *Prereq: EDUC 220. Teacher candidates must receive a grade of C or better.*

**EDUC 355 CLASSROOM MANAGEMENT FOR A DIVERSE SOCIETY**

**3 hrs**

This course focuses on establishing and maintaining a positive and productive learning environment in early childhood classrooms. Topics include culturally relevant classroom management, classroom ecology, inclusion strategies, establishing rules and logical consequences, and building productive home/school communication. Through reading about theory and practice, students will be prepared to make decisions to construct a classroom culture congruent with their philosophy of education. *Prereq: EDUC 220. Teacher candidates must receive a grade of C or better.*



### **EDUC 360 MULTICULTURAL EDUCATION**

2 hrs

Curriculum planning and teaching strategies for culturally diverse student needs. Racism, sexism, diverse learning styles and linguistic variation will be examined. Five clinical hours are included. *Prereq: EDUC 200 or 220. Teacher candidates must achieve a grade of C or better.*

### **EDUC 363 ADOLESCENT LITERATURE IN A COMPREHENSIVE READING PROGRAM**

3 hrs

This course will require students to read and analyze a wide variety of literature for adolescents from the following perspectives: embedding reading instruction in a meaningful context, importance of reading instruction as a means to access information and enhance the quality of life, providing for differences among learners and how these differences influence reading, understanding the influence on the reading process of what the reader brings to the experience, and exploring strategies to encourage and motivate students to pursue and respond to reading and writing for personal growth and fulfillment. *Prereq: EDUC 200. Teacher candidates must achieve a grade of C or better.*

### **EDUC 365 MULTICULTURAL LITERATURE FOR CHILDREN AND YOUNG ADULTS**

2 hrs

This course is an exploration of issues related to cultural diversity with the primary tool being literature written for children and young adults. Students will explore their own cultural backgrounds and attitudes. Diversity areas such as race, ethnicity, gender, class, sexual orientation, language, and ableness are examined. Five clinical hours are included. This course may be used as a substitute for EDUC 360. *Prereq: EDUC 350 or 363 or permission of instructor. Teacher candidates must achieve a grade of C or better.*

### **EDUC 370 SECONDARY TEACHING METHODS**

4 hrs

A study of secondary school curriculum which focuses on short and long term planning (based on principles of best practice and Ohio Academic Content Standards), a variety of instructional strategies, classroom management, and formal/informal assessment strategies. The course includes a minimum of 25 clinical hours in the subject for which licensure is sought. *Prereq: EDUC 200, Teacher Education Admission, and permission of the department. Coreq: Appropriate field experience and seminar for licensure area. Teacher candidate must achieve a grade of C or better and a positive recommendation to progress in the program.*

### **EDUC 371-378 SECONDARY FIELD EXPERIENCES AND SEMINARS**

100 field hours required in an urban secondary setting in the subject for which licensure is sought. Students must have half days free for field assignments. In specified teaching areas, subject specific seminars are also required (see below). Students need to confirm the quarters the courses are offered with the College schedule. *Coreq: EDUC 370. Teacher candidates must achieve a grade of C or better.*

#### **Science:**

#### **EDUC 371 SCIENCE FIELD EXPERIENCE**

4 hrs



**EDUC 371.1 SCIENCE SEMINAR****2 hr**

A study of secondary school science teaching methods, including planning and implementing science labs in the science classroom. Includes development of knowledge of the Ohio Academic Science Content Standards, and a focus on conducting lab activities, organizing a science classroom, and integrating other disciplines with science for the secondary student. Students will take this course in conjunction with EDUC 371, Science Field Experience which includes 100 clock hours of field experience in the science classroom. *Teacher candidates must achieve a grade of C or better.*

**Mathematics:****EDUC 372 MATHEMATICS FIELD EXPERIENCE****4 hr****EDUC 372.1 MATHEMATICS SEMINAR****2 hr**

A study of secondary school mathematics teaching methods, student assessment and curriculum planning. Includes development of a knowledge of the Ohio Academic Content Standards with a focus on problem solving, mathematical communication and reasoning, connections among mathematical strands and with other disciplines and real world applications of mathematics for the secondary student. Students will take this course in conjunction with EDUC 372, Mathematics Field Experience which includes 100 clock hours of field experience in the mathematics classroom.

*Teacher candidates must achieve a grade of C or better.*

**Social Studies:****EDUC 374 SOCIAL STUDIES FIELD EXPERIENCE****4 hr****EDUC 374.1 SOCIAL STUDIES SEMINAR****2 hr**

A study of secondary school social studies teaching methods, student assessment and curriculum planning. Includes development of a knowledge of the Ohio Academic Content Standards with a focus on studying the past and present from multiple perspectives, knowing democratic principles, and valuing civil competence for the secondary student. Students will take this course in conjunction with EDUC 374, Social Studies Field Experience which includes 100 clock hours of field experience in the social studies classroom. *Teacher candidates must achieve a grade of C or better.*

**Language Arts:****EDUC 375 INTEGRATED LANGUAGE ARTS FIELD EXPERIENCE****4 hr****EDUC 375.1 INTEGRATED LANGUAGE ARTS SEMINAR****2 hr**

A study of secondary school language arts teaching methods, student assessment and curriculum planning. Includes development of a knowledge of the Ohio Academic Content Standards with a focus on reading, writing, literature and speaking for the secondary student. Students will take this course in conjunction with EDUC 375, Integrated Language Arts Field Experience which includes 100 clock hours of field experience in the language arts classroom. *Teacher candidates must achieve a grade of C or better.*

**Visual Arts:****EDUC 376 VISUAL ARTS FIELD EXPERIENCE****4 hr****EDUC 376.1 VISUAL ARTS SEMINAR****2 hr**

A study of secondary school visual arts teaching methods, student assessment and curriculum planning. Includes development of a knowledge of the state curriculum



model with a focus on developing creative problem solving, studio techniques, personal expression, and critical response for the secondary student. Students will take this course in conjunction with EDUC 376, Visual Arts Field Experience which includes 100 clock hours of field experience in the visual arts classroom. *Teacher candidates must achieve a grade of C or better.*

**Health/Physical Education:**

**EDUC 377 HEALTH/PHYSICAL EDUCATION FIELD EXPERIENCE**

4 hrs

Students will take this course in conjunction with EDUC 370, Secondary Teaching Methods. The course includes 100 clock hours of field experience in the health/physical education classroom. *Teacher candidates must achieve a grade of C or better.*

**Foreign Language**

**EDUC 378 FOREIGN LANGUAGE FIELD EXPERIENCE**

4 hrs

Students will take this course in conjunction with EDUC 370, Secondary Teaching Methods. The course includes 100 clock hours of field experience in the foreign language classroom. *Teacher candidates must achieve a grade of C or better.*

**EDUC 380 LITERACY IN CONTENT AREAS**

5 hrs

A study of research-based strategies that promote content area literacy across the curriculum in grades K-12, with an emphasis on classroom practices for increasing K-12 students' achievement in content area comprehension, vocabulary, writing, thinking, and study skills. Other topics include understanding general assessment tools and terminology, working with diverse learners, and identifying characteristics of a positive classroom culture. 15 clinical hours required. *Prereq: EDUC 200. Teacher candidates must receive a grade of C or better.*

**EDUC 390 INDEPENDENT STUDY**

1-5 hrs

Individual or group research or practicum in education. May be repeated. Permission of the department required. *Teacher candidates must achieve a grade of C or better.*

**EDUC 398 SPECIAL TOPICS**

1-6 hrs

**EDUC 398.10 SERVICE LEARNING AND ACADEMIC ACHIEVEMENT IN MIDDLE GRADES**

3 hrs

This class will help middle childhood teacher candidates understand the philosophy of meaningful service learning and its potential impact on motivation, learning, and academic achievement. Students will be active participants in service learning projects.

**EDUC 398.20 SERVICE LEARNING AND CURRICULUM IN MIDDLE GRADES**

3 hrs

This class will help middle school teacher candidates understand the philosophy of meaningful service learning and its potential to enhance and extend the curriculum. Students will be active participants in developing service learning projects.

**EDUC 400 INDIVIDUAL FIELD EXPERIENCE**

1-4 hrs

A field experience involving work with children in schools, planned to meet state licensure requirements and individual goals of participants. Students meet in a weekly



seminar and all work is approved, supervised, and evaluated by the seminar instructor. One quarter hour of credit is equal to 25 clock hours of field experience in schools. *Teacher candidates must achieve a grade of C or better. Prereq: EDUC 200/220 or permission of department.*

#### **EDUC 410.10 STUDENT TEACHING, AYA OR MULTI-AGE** 15 hrs

Teaching experience in schools under the supervision of cooperating school teachers and a College supervisor. Pre-service teachers will participate in all aspects of school life including curriculum design, student assessment, classroom management, teaching methodologies and professional development. Students will need to demonstrate competence in all 10 program standards in order to complete student teaching successfully. Includes 300 clock hours, 10 weeks full time\*, of field experience. No prepared course work should be taken with student teaching unless it is part of a continuing teaching internship. This course requires a capstone portfolio and fulfills the College's Senior Year Experience requirement. *Prereq: EDUC 370 or MUSC 370, 375, 380 and recommendation of Education Department. Coreq: EDUC 410, SYE Seminar (1 hr). Teacher candidates must achieve a grade of C or better. Fingerprinting/background check is required prior to placement for student teaching. See department for more information about requirements, application deadlines, and orientations during your junior year.*

\* The Ohio Board of Regents and the Ohio Dept. of Education are reviewing the required length of student teaching. Consult the Education Department for current requirements.

#### **EDUC 410.11 SENIOR YEAR EXPERIENCE SEMINAR** 1 hr

*Coreq: EDUC 410.10.*

#### **EDUC 410.20 STUDENT TEACHING AT McCURDY, AYA OR MULTI-AGE** 15 hrs

A selective student teaching experience in New Mexico. Students must apply during junior year. See the Education Department for information. *Coreq: EDUC 410.21.*

#### **EDUC 410.21 SENIOR YEAR EXPERIENCE AT McCURDY** 1 hr

*Coreq: EDUC 410.20.*

#### **EDUC 440 READING ASSESSMENT AND INSTRUCTION** 5 hrs

A study of techniques and instruments of reading assessment. Topics include critical analysis of current assessment, observation and description of the reading process, and planning individualized and whole-class assessment-driven programs in reading. 25 clinical hours required. *Prereq: EDUC 200/220 and EDUC 325/335. Teacher candidates must receive a grade of C or better.*

#### **EDUC 450 EXCEPTIONAL CHILDREN** 3 hrs

A study of children with special needs with an emphasis on middle childhood and adolescence. Techniques of including exceptional children in the classroom will be explored as will an examination of assessment, the referral and IEP process and the differentiation of instruction. 25 clinical hours required. *Prereq: EDUC 200. Teacher candidates must receive a grade of C or better. Note: Not required of students with credit in PHED 360 Adapted Physical Education.*



**EDUC 451 INCLUDING CHILDREN WITH SPECIAL NEEDS IN  
THE EARLY CHILDHOOD CLASSROOM****3 hrs**

Study of children with special needs with an emphasis on preschool through grade 3. Techniques of including exceptional children in the early childhood classroom will be explored as will an examination of assessment, the referral and IFSP/IEP process, working with families and the differentiation of instruction. 20 field hours and 10 clinical hours required. *Prereq: EDUC 220. Teacher candidates must receive a grade of C or better.*

**EDUC 455 EARLY CHILDHOOD SPECIAL EDUCATION****9 hrs**

This course is designed for those seeking an Intervention Specialist license. An in-depth study of history, legislation, rules and regulations applicable to early childhood special education populations will be presented as will the nature and needs of mild, moderate, and severely disabled young children. Service delivery options, intervention strategies, assessment, working with families, and the differentiation of instruction will be discussed. 100 field hours required. *Prereq: EDUC 451. Teacher candidates must receive a grade of C or better.*

**EDUC 460 READING RESEARCH****3 hrs**

Study of research terms and approaches; a critical exploration of historical and current research and trends in reading. *Prereq: EDUC 325 or 335. Teacher candidates must receive a grade of C or better.*

**EDUC 465 TEAMING: COLLABORATION AND CONSULTATION  
IN EARLY CHILDHOOD EDUCATION****4 hrs**

This course is designed to help students learn to function on educational teams by applying them to collaboration and consultation models in the literature and in the field. Students will learn how to establish and maintain positive, collaborative relationships with families, colleagues, and professionals from the larger community. Emphasis is placed on communication skills, knowledge of community resources, and family systems theory. A field placement in a school or agency dealing with preschool youngsters is required. Students should have two mornings available for field placement. 50 field hours working with preschool children in an early childhood school or agency are required. *Prereq: EDUC 220. Teacher candidates must receive a grade of C or better.*

**EDUC 470.10 STUDENT TEACHING, EARLY CHILDHOOD****15 hrs**

Provides experience in an early childhood setting (grades PK-3) under the supervision of a cooperating teacher and a College supervisor. Pre-service teachers will participate in all aspects of school life including curriculum design, student assessment, classroom management, teaching methodologies and professional development. Students will be required to demonstrate competence in all 10 program standards in order to complete student teaching successfully. Includes 300 clock hours, 10 weeks full time\*, of field experience. No prepared course work should be taken with student teaching unless it is part of a continuing teaching internship. This course requires a capstone portfolio that fulfills the College's Senior Year Experience requirement. *Prereqs: EDUC 320 and recommendation of department. Coreq: EDUC 470, SYE Seminar (1 hr). Teacher candidates must achieve a grade of C or better. Fingerprinting/background check is*



required prior to placement for student teaching. See department for more information about requirements, application deadlines, and orientations during your junior year.

\* The Ohio Board of Regents and the Ohio Dept. of Education are reviewing the required length of student teaching. Consult the Education Department for current requirements.

**EDUC 470.11 SENIOR YEAR EXPERIENCE SEMINAR**

**1 hr**

*Coreq: EDUC 470.11.*

**EDUC 470.20 STUDENT TEACHING AT McCURDY, EARLY CHILDHOOD**

**15 hr**

A selective student teaching experience in New Mexico. Students must apply during junior year. See the Education Department for information. *Prereq: EDUC 320 and recommendation of Education Department. Coreq: EDUC 470.21.*

**EDUC 470.21 SENIOR YEAR EXPERIENCE SEM. AT McCURDY**

**1 hr**

*Coreq: EDUC 470.20.*

**EDUC 470.30 STUDENT TEACHING IN ENGLAND, EARLY CHILDHOOD**

**15 hrs**

A selective student teaching experience in England. Students must apply during junior year. See the Education Department for information. *Prereq: EDUC 320 and recommendation of Education Department. Coreq: EDUC 470.31.*

**EDUC 470.31 SENIOR YEAR EXPERIENCE SEM. IN ENGLAND**

**1 hr**

*Coreq: EDUC 470.30.*

**EDUC 471.10 STUDENT TEACHING, MIDDLE CHILDHOOD**

**15 hrs**

Teaching experience in grades 4-9 under the supervision of a cooperating teacher and a College supervisor. Pre-service teachers will participate in all aspects of school life including curriculum design, student assessment, classroom management, teaching methodologies and professional development. Students will need to demonstrate competence in all 10 program standards in order to complete student teaching successfully. Includes 300 clock hours, 10 weeks full time\*, of field experience. No prepared course work should be taken with student teaching unless it is part of a continuing teaching internship. This course requires a capstone portfolio and fulfills the College's Senior Year Experience requirement. *Prereq: EDUC 342 and recommendation of the department. Coreq: EDUC 471, SYE Seminar (1 hr). Teacher candidates must achieve a grade of C or better. Fingerprinting/background check is required prior to placement for student teaching. See department for more information about requirements, application deadlines, and orientations during your junior year.*

\* The Ohio Board of Regents and the Ohio Dept. of Education are reviewing the required length of student teaching. Consult the Education Department for current requirements.

**EDUC 471.11 SENIOR YEAR EXPERIENCE SEMINAR**

**1 hr**

*Coreq: EDUC 470.10.*

**EDUC 471.20 STUDENT TEACHING AT McCURDY, MIDDLE CHILDHOOD**

**15 hrs**

A selective student teaching experience in New Mexico. Students must apply



during junior year. See the Education Department for information. *Prereq:* EDUC 342 and recommendation of the department. *Coreq:* EDUC 471.21.  
**EDUC 471.21 SENIOR YEAR AT McCURDY, MIDDLE**

**CHILDHOOD**

1 hr

*Coreq:* EDUC 471.20.

**EDUC 471.30 STUDENT TEACHING IN ENGLAND, MIDDLE  
CHILDHOOD**

15 hrs

A selective student teaching experience in England. Students must apply during their junior year. See the Education Department for more information. *Prereq:* EDUC 342 and recommendation of Education Department.

*Coreq:* EDUC 471.31.

**EDUC 471.31 SENIOR YEAR EXPERIENCE SEMINAR IN ENGLAND**

*Coreq:* EDUC 471.30.

1 hr

**EDUC 480 READING PRACTICUM**

4 hrs

A capstone practicum for the Reading Endorsement. Students are assigned to classrooms for a minimum of 100 clock hours, attend weekly seminars, and participate in action research. *Prereq:* EDUC 325 or 335, and 440. *Teacher candidates must achieve a grade of C or better.*

**EDUC 490 TEACHING INTERNSHIP**

5-15 hrs

Teaching experience in elementary, middle, or secondary schools under contract to the school and supervised by a cooperating school teacher and a College supervisor. Applicants must be approved by the department and by the cooperating school district. *Teacher candidates must achieve a grade of C or better.*



# English

*Eisenstein (chairperson), Ashworth, Birk, Burns, Chaney, Daugherty, Frick, Gòkè-Parfola, Gorman, Hermsen, Joshi, Kengla, Koehler, Lakanen, Prindle, Smith*

## Mission and Programs

The mission of the English Department is to enhance the understanding and pleasure gained from the reading of literature and to make available the satisfaction and achievements of good writing for all students at a liberal arts college. Our discipline stresses careful reading, informed criticism, and imaginative creation of works of literature in English. Through our sponsorship of the Writers Series, our guidance for the student literary magazine (Quiz and Quill), and our participation in the freshman Common Book Program, we act as advocates for literary creativity for the college as a whole. Students and faculty together form a community of writers and scholars, and our mission, in the broadest sense, is to foster the development of that community and the activities of writing and scholarship that keep it alive.

Within our broad mission, we have three related commitments: to our majors in the discipline of English, who may specialize in creative writing or in literary studies; to future English teachers in secondary schools, who take their professional disciplinary preparation in this department; and to all students through the three composition and literature courses of the Integrative Studies program as well as through English elective courses. For all of these students, we are committed to classrooms of open discussion and to an emphasis on critical inquiry and creativity.

The department views both the reading and writing of literature as means to understanding ourselves, human life, and the patterns and ideas of human cultures. We see literature as a kind of knowledge, as a liberating process, and as the product of both individual vision and cultural assumptions. Writing is a generative activity, one that helps individuals to find their own stories as well as to think through and express their own positions. Our discipline is about appreciating the writer's craft and the creative process by which literary art is achieved; and it is about reading works of literary art as windows into personal cultural discovery.

## B.A. degree with a major in English

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 10 hrs (specifics on p. 15)
- ☐ Mathematics – 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (at least 51 hrs or equivalent):*

Majors must select either the literary studies or the creative writing concentration.

#### **1. English Major with Literary Studies concentration**

- ☐ five foundation courses: ENGL 155; 190; 210; 215 or 250; and 220 or 255 (must take either 250 or 255) - 25 hrs



- ☐ one diversity course from among ENGL 230, 231, 232, 233, 333 and 334 - 5 hrs
- ☐ two advanced courses from among ENGL 325, 333, 334, 340, 355 and 381 (some of these courses are repeatable, but may only be counted once toward meeting this requirement) - 10 hrs
- ☐ one Shakespeare course, ENGL 350 - 5 hrs
- ☐ the senior capstone, ENGL 400 - 5 hrs; or EDUC 410.10 & 410.11 for students seeking Integrated Language Arts teacher licensure - 16 hrs
- ☐ one senior portfolio project, ENGL 401 - 1 hr
- ☐ above hours must total a minimum of 51
- Students pursuing the literary studies concentration are encouraged to take all five survey courses (210, 215, 220, 250, 255) and to take several additional electives, particularly at the advanced level. At least one writing course (ENGL 260, 261, 262, 263, 265, 335) is strongly advised. Interdisciplinary clusters of courses, reflecting student interest, are also available. Consultation with the student's advisor is essential.
- Students planning to teach should take the Literary Studies concentration. They may use successful completion of EDUC 410.10 and 410.11 as a substitute for ENGL 400 to complete their major. Note that additional courses in English, Education, and other areas are required for licensure in Integrated Language Arts. See Education Department handbook, *Teacher Education Programs*.

## 2. English Major with Creative Writing concentration

- ☐ one foundational literature course: ENGL 155 - 5 hrs
- ☐ one foundational creative writing course: ENGL 160 - 5 hrs
- ☐ two writing courses from among ENGL 260, 261, 262, 263 and 265 (can not count both 262 and 265) - 10 hrs
- ☐ one diversity (literature) course from among ENGL 230, 231, 232, 233, and 234 - 5 hrs
- ☐ one literature course from among ENGL 210, 215, 220, 250, 255 and 295 - 5 hrs
- ☐ one additional literature course from among ENGL 210, 215, 220, 230, 231, 232, 233, 234, 250, 255, and 295 - 5 hrs
- ☐ one advanced writing course from among ENGL 360, 361, 362 and 363 - 5 hrs
- ☐ one advanced literature course from among ENGL 325, 333, 334, 340, 350, 355 and 381 - 5 hrs
- ☐ one senior writing project, ENGL 460 - 5 hrs
- ☐ one senior portfolio project, ENGL 401 - 1 hr
- ☐ above hours must total a minimum of 51
- English writing majors are strongly encouraged to take additional literature and writing courses, and to explore the college's many professional writing courses offered through the journalism program.

### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)



*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **Minor in English**

*Required (at least 25 hrs):*

- ☐ ENGL 155
- ☐ At least 5 hrs of ENGL at 300/400 level except 390, 400, 401 and 460
- ☐ Remaining hours from any other ENGL courses except 294, 390, 400, 401 and 460.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Integrated Language Arts Teacher Licensure (grades 7-12):** Students should follow the English **Literary Studies concentration** to complete teacher licensure, but must take additional hours in English beyond the major. Requirements for students seeking English/Language Arts teacher licensure are listed in the *Teacher Education Programs* handbook available from the Education Department. Requirements for the English major and teacher licensure must be met to become licensed, and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

### **Program Outcome**

English Department courses aim to provide students with a broad knowledge base in literary and humanistic studies, to help them build key skills for graduate school and professional work, and to give them a strong sense of multiculturalism and social awareness.

The Literary Studies concentration may lead to careers that require skills in research, reading, synthesis, and evaluative thinking. The Creative Writing concentration may lead to careers that require skills in imparting information, editing, and imaginative self-expression. The English major is highly compatible with such professions as teaching, law, ministry, library science, publishing, advertising, and free-lance writing.

### **English Courses (ENGL)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



**ENGL 155 AN INTRODUCTION**

**TO THE LITERARY IMAGINATION**

5 hrs

Entry-level course for both the Literary Studies and the Creative Writing concentrations. Emphasizes the fundamentals of literary language, style, and genre and the importance of close reading for literary analysis.

**ENGL 160 INTRODUCTION TO CREATIVITY AND WRITING**

5 hrs

An introductory writing course for majors and non-majors; introduces students to ideas about creativity in writing, with connections to other art forms, and to each of the four writing specialties in the English major (poetry, fiction, nonfiction, and drama), with writing exercises and practice in these genres. *Prereq: ENGL 155 or permission of instructor.*

**ENGL 180 READING COURSE**

2 hrs

Topic and professor change quarterly. Each offering focuses on a particular author, genre, or topic not provided by the department's regular curriculum. Topics have included: Shakespeare's Contemporaries; The Graphic Novel; Reading: 20<sup>th</sup> Century American Travel Writing; Forgotten Classics; The Espionage Novels of John LeCarré; Dostoevsky's *The Brothers Karamazov*; and Gender, Sex, Power: Reading Judith Butler.

**ENGL 190 LITERATURE: READING, INTERPRETATION,  
CRITICISM**

5 hrs

Foundation for the literary studies concentration and introduction to literary study as a discipline. A variety of works from different genres (poetry, short fiction, drama) will be studied in depth. Students will write literary essays and reviews as well as learn to read literary criticism. *Prereq: ENGL 155 or permission of instructor.*

**ENGL 210 BRITISH LITERATURE THROUGH 1660**

5 hrs

A survey of British literature beginning with Anglo-Saxon writers and concluding with Milton. Emphasizes literary and cultural history and developing literary styles. *Prereq: ENGL 155.*

**ENGL 215 BRITISH LITERATURE FROM 1660 THROUGH 1900**

5 hrs

A survey of British literature from the Restoration through the Victorians. Emphasizes literature and culture of the eighteenth-century, Romantic, and Victorian periods. *Prereq: ENGL 155.*

**ENGL 220 BRITISH LITERATURE FROM 1900 TO THE PRESENT**

5 hrs

A survey of British literature of the 20<sup>th</sup> and 21<sup>st</sup> centuries with emphasis on modernism and postmodernism and attention to the diverse literatures in the English language. Genres include essays, short fiction, drama, poetry, and the novel. *Prereq: ENGL 155.*

**ENGL 230 AFRICAN-AMERICAN LITERATURE**

5 hrs

An exploration of the tradition of African-American literature from slave narratives to the present. The course includes intensive study of at least one major author in this tradition. Alternates with ENGL 334. *Designed for non-majors as well as majors.*



**ENGL 231 WOMEN WRITERS****5 hrs**

An exploration of the tradition of English and American women writers with primary concentration on authors from 1750 to the present. The course includes the intensive study of at least one major writer in this tradition. *Designed for non-majors as well as majors.*

**ENGL 232 DIVERSE AMERICAN LITERARY TRADITIONS****5 hrs**

Study of significant literary works from one particular North-American minority tradition. Traditions from which the course topic may be chosen include such possibilities as: Native American, Jewish, Appalachian, Asian, and Latino literatures. The course focuses on one specific literary tradition in depth; it is not a survey of all such traditions. *Designed for non-majors as well as majors. May be repeated to a maximum of 15 credits when offered with a different topic.*

**ENGL 233 MYTH, FOLKLORE, AND LITERATURE****5 hrs**

An exploration of the forms and significances of myth, fairy tales, traditional oral tales and heroic legends, and of major literary works, such as *The Odyssey*, which grow out of the oral tradition. Connections may be made to contemporary artists who consciously use traditional and mythic materials. *Designed for non-majors as well as majors.*

**ENGL 234 GAY, LESBIAN, BISEXUAL, AND TRANSGENDER LITERATURE****5 hrs**

A study of literature that explores the individual, cultural, and aesthetic implications of gender expression and sexual identity. The course is especially interested in the ways that literature can reveal and reimagine the ways we think about sex, desire, power, and gender. May also include an examination of "queer" writers, thinkers, and theoretical concepts.

**ENGL 250 AMERICAN LITERATURE THROUGH 1865****5 hrs**

Readings in American literature from the Colonial era through the age of Romanticism. Genres include histories, journals, essays, Native American legends, captivity narratives, slave narratives, short fiction, the novel, and lyric poetry. *Prereq: ENGL 155.*

**ENGL 255 AMERICAN LITERATURE FROM 1865 TO PRESENT****5 hrs**

Major writers in American literature from the Age of Realism to the present with attention to the revision of the canon. Genres include essays, short fiction, drama, poetry, and the novel. *Prereq: ENGL 155.*

**ENGL 260 POETRY WRITING****5 hrs**

Instruction in poetic techniques through exercises that explore specific problems; exercises will lead to the writing of poems; discussion and critique of both published and student writing by instructor and peers. *Prereq: ENGL 160 or permission of department chairperson.*



**ENGL 261 FICTION WRITING**

**5 hrs**

Instruction in fiction writing techniques through exercises that explore specific problems; exercises will lead to the writing of short stories; discussion and critique of both published and student writing by instructor and peers. *Prereq: ENGL 160 or permission of department chairperson.*

**ENGL 262 NONFICTION WRITING**

**5 hrs**

Instruction and practice in nonfiction writing with special emphasis on the personal essay as a genre encompassing memoir, travel writing, nature writing, and literary journalism. This course includes experimentation with a variety of prose techniques, and discussion and critique of both published and students writing by instructor and peers. *Prereq: ENGL 160 or permission of department chairperson*

**ENGL 263 PLAYWRITING**

**5 hrs**

Instruction and practice in the writing of drama including planning scenarios, presenting scenes in class workshops and drafting a play; with emphasis on critiquing of student's work by instructor and peers. *Prereq: ENGL 160 or permission of department chairperson.*

**ENGL 265 WRITING LIFE STORIES: THE POWER OF NARRATIVE**

**5 hrs**

In this course, students both read and write in one of the forms of nonfiction—the memoir. Memoir includes important events, significant viewpoints, or selected memories from a writer's life. Students will write their own memoirs to achieve self-discovery and explore new writing forms. Course is designed for students in any major.

**ENGL 275 FILM AND LITERATURE**

**5 hrs**

This course focuses on the discussion and interpretation of film and literature as distinct—yet related—artistic forms. Readings and screenings will aim to develop understanding of the technical aspects of film, the conventions of particular genres, the role of the director as auteur/author, and the relationship of novels and films with the historical periods from which they emerge. Particular attention is given to the way literature is adapted into film and the way such adaptations produce different results with similar content. *Prereq: sophomore standing.*

**ENGL 292 WRITING FOR NON-PROFIT ORGANIZATIONS**

**2 hrs**

This course provides students practical experience working for a non-profit organization in the Columbus community. Each student is matched with a non-profit organization relevant to his/her interests and works 5-6 hours per week on writing-related tasks (which, based on the organization's needs, might include grant writing, newsletters, correspondence, or web writing). The class meets for an hour a week of discussion, processing of experience, and some reflective writing. At the end of the course, students assemble a portfolio of the work they have done for the organization. *May be repeated for credit up to four times for a maximum of 8 credit hours. Sophomore standing and permission of instructor required.*



**ENGL 294 LITERARY MAGAZINE PRACTICUM****1 hr**

Supervised work for student literary magazine, including choosing and editing copy, designing layouts, and promoting and hosting literary events. Students attend weekly staff meetings and edit and publish the *Quiz and Quill*. *May be repeated for credit (up to a total of 6 hours). Does not fulfill the publications practicum for the journalism and public relations major.*

**ENGL 295 LINGUISTICS****5 hrs**

An introduction to the study of language, including attention to morphology, syntax, semantics, phonetics, language in society, the history of English, Black English and other dialect forms, and psycholinguistics (including the child's acquisition of language).

**ENGL 325 STUDIES IN LITERATURE AND CULTURE****5 hrs**

Intensive study of the intersection of literature and culture at particular historical moments. Topics change annually, and may focus on a period (e.g., the 18<sup>th</sup> century, the Romantic period), a movement (e.g., American naturalism, postmodernism), or a topic (e.g., literature and the Holocaust, the city in Victorian literature). *Prereq.: two from ENGL 210, 215, 220, 250, 255; or permission of the instructor. May be repeated once for credit when offered with a different topic.*

**ENGL 333 STUDIES IN WORLD LITERATURES****5 hrs**

Study of a major modern non-Western literature (e.g., African, Caribbean, Indian) in English or a major world literature in translation. The course focuses on one particular tradition, with emphasis on modern and contemporary works; the specific tradition studied will vary from year to year. *Designed for non-majors as well as majors. May be repeated to a maximum of 15 credits with a different topic.*

**ENGL 335 BUSINESS AND TECHNICAL WRITING****5 hrs**

Study and practice in writing for the world of work. Assignments include such writing as: letters, memos, proposals, instructions and manuals, and formal reports. Open to students in all majors.

**ENGL 340 STUDIES IN MAJOR AUTHORS****5 hrs**

Intensive study of an author writing in English; one year the author chosen will be from the period after 1900, the next from a period before 1900. Occasionally the course may center around a pair of authors or require supplementary reading in a second author. Readings will focus on the author's works, but will include materials about the author's life as well as context and criticism about the author's work. See department chairperson for author selected. *Prereq.: two from ENGL 210, 215, 220, 250, 255; or permission of the instructor. May be repeated once for credit when offered with a different author.*

**ENGL 350 SHAKESPEARE****5 hrs**

Intensive study of Shakespeare's plays, including attention to his development as dramatist, the Elizabethan context for his works, and the nature of Elizabethan theatrical performance. Representative works from the histories, comedies, tragedies, and late romances will be chosen, with the exact selection varying from year to year.



**ENGL 355 STUDIES IN LITERARY AND CRITICAL THEORY** 5 hrs

An investigation of significant theoretical approaches to literature. Course provides focused study of key aspects of issues in literary theory. Readings and discussions will emphasize the core assumptions, reading strategies, and political concerns of various critical models. *Prereq: two from ENGL 210, 215, 220, 250, 255; or permission of the instructor. May be repeated once for credit when offered with a different topic.*

**ENGL 360 ADVANCED POETRY WRITING SEMINAR** 5 hrs

Further practice in the writing of poetry; weekly small-group discussion sessions and individual meetings with the instructor; discussions will focus on student writing and on the work of published writers; will be offered in the same term as English 260; limited enrollment. *Prereq: ENGL 260.*

**ENGL 361 ADVANCED FICTION WRITING SEMINAR** 5 hrs

Further practice in the writing of fiction; weekly small-group discussion sessions and individual meetings with the instructor; discussions will focus on student writing and on the work of published writers; limited enrollment. *Prereq: ENGL 261.*

**ENGL 362 ADVANCED NONFICTION SEMINAR** 5 hrs

Further practice in the writing of nonfiction; weekly discussion sessions focused on student writing and the work of published writers; multiple individual meetings with the instructor; discussions will focus on student writing and on the work of published writers; limited enrollment. *Prereq: ENGL 262 or 265.*

**ENGL 363 ADVANCED PLAYWRITING SEMINAR** 5 hrs

Further practice in the writing of drama; weekly small-group discussion sessions and individual meetings with the instructor; discussions will focus on student writing and on the work of published writers; limited enrollment. *Prereq: ENGL 263.*

**ENGL 375 TEACHING CREATIVE WRITING IN THE COMMUNITY**

5 hrs

Students will work in groups of two or three to lead weekly workshops in creative writing for groups of children or teens at elementary schools, residential homes or other community sites; the enrolled students and the instructor will also meet weekly to plan the workshops and to discuss what they are learning through this work. *Prereq: ENGL 260, 261, 262, or 263. An interview with the instructor prior to enrollment is required.*

**ENGL 381 STUDIES IN LITERARY GENRES** 5 hrs

Intensive study of one of the major literary genres: fiction, nonfiction, poetry, or drama. Course will include the development of the genre, significant contemporary examples of the genre, and critical theories about the genre. The specific genre to be studied will change annually; see department chairperson for schedule. *Prereq: two from ENGL 210, 215, 220, 250, 255; or permission of the instructor. May be repeated once for credit when offered with a different topic.*



**ENGL 390 INDEPENDENT STUDY****1 to 5 hrs**

Independent study in literature or in writing. *Permission of instructor and of department chairperson required.*

**ENGL 400 SENIOR LITERATURE PROJECT SEMINAR****5 hrs**

A seminar aimed at creating a research community for senior literary studies majors who must conceive and execute a full-length research project on an author or a topic. Students meet several times a quarter over three quarters for a total of 5 credit hours (1 hour, 2 hours, 2 hours), with a grade given each quarter. Autumn Quarter is devoted to choosing one's author or topic, learning more about research, and completing an annotated bibliography; winter quarter is devoted to reading and researching, meeting regularly with one's director, and writing a project draft; spring quarter is devoted to completing and revising the project. Each student will present his/her work in a form determined by the teacher of the seminar. Each student works individually with a director and reader, and a project defense with directors and readers will take place near the end of Spring Quarter. *Prereq: ENGL 190; three from ENGL 210, 215, 220, 250, 255; and senior standing.*

**ENGL 401 SENIOR PORTFOLIO PROJECT****1 hr**

The Senior Portfolio Project requires both literary studies and creative writing majors to create, edit, and select a sampling of their best work over a four-year period. Majors select at least five samples of work derived from specific courses and interests within their majors, and are also encouraged to select work which is created in fields other than their majors. Students must include an essay with the completed portfolio which demonstrates their own insights into the submitted work and their evaluation of themselves as thinkers, writers, and editors. *Prereq: Senior standing.*

**ENGL 460 SENIOR WRITING PROJECT SEMINAR****5 hrs**

A seminar aimed at creating a writing community for senior creative writing majors who must conceive and execute a full-length literary work in their chosen writing specialty. Students meet several times a quarter over three quarters for a total of 5 credit hours (1 hour, 2 hours, 2 hours), with a grade given each quarter. Fall quarter is devoted to developing a project proposal and to the process of writing a full-length manuscript; winter quarter is devoted to writing a project draft and meeting regularly with one's director; spring quarter is devoted to completing and revising the project. Each student will present his/her work in a form determined by the teacher of the seminar. Each student works individually with a director and reader, and a project defense with directors and readers will take place near the end of Spring Quarter. *Prereq: ENGL 160; two from ENGL 260, 261, 262, 263; one from ENGL 360, 361, 362, 363; and senior standing.*

**ENGL 490 INTERNSHIP****1-15 hrs**



# Environmental Studies

*Lescinsky (coordinator) and members of various departments.*

The **Environmental Studies** minor, an interdisciplinary field of study, emphasizes a broad understanding of contemporary environmental problems. The goal of the program is to encourage the development of the knowledge base and problem solving skills necessary for success in careers directed at solving contemporary environmental problems. The program offers a minor in Environmental Studies. The minor enables students preparing for careers in environmental law, journalism, science, and other environmental areas to integrate an environmental focus into their programs of study.

## Minor in Environmental Studies

*Required (at least 5 courses; note that the Social Science courses have prerequisites)*

### **Environmental Studies** (take both)

- ☐ ENST 101 - Introduction to Environmental Studies 5 hrs
- ☐ ENST 401 - Advanced Environmental Studies 5 hrs

### **Humanities** (take at least one)

- ☐ PHIL 280 - Environmental Philosophy 5 hrs
- ☐ P SC 370 - Environmental Law and Politics 5 hrs

### **Natural Sciences** (take at least one)

- ☐ E SC 205 - Environmental Geology 5 hrs
- ☐ L SC 204 - Environmental Biology 5 hrs

### **Social Sciences** (take at least one)

- ☐ ECON 425 - Environmental Economics 5 hrs
- ☐ PSYC 300 - when topic is Environmental Psychology 5 hrs
- ☐ SOCL 295 - Environmental Sociology 5 hrs

- ECON 210 and 220 are prerequisites for ECON 425. PSYC 260 is a prerequisite for PSYC 300. SOCL 120 is a prerequisite for SOCL 295.

### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

Descriptions of courses other than environmental studies are listed under their respective home departments in this section of the catalog. Course prefixes (PHIL, P SC, etc.) and the home departments to which they are assigned are identified on p. 28).

## Environmental Studies (ENST)

### **ENST 101 INTRODUCTION TO ENVIRONMENTAL STUDIES 5 hrs**

An introduction to the nature, origins, and potential solutions of environmental problems. The course draws upon principles of ecology and economics, as well as the physical sciences and the humanities. Hands on experiences, including an analysis of campus ecology and field trips exploring both pristine and damaged regions of our environment are emphasized.



**ENST 390 INDEPENDENT STUDY**

**1-5 hrs**

Independent study. Opportunity for work in topics of special interest. *Prereq: Permission of Instructor.*

**ENST 401 ADVANCED ENVIRONMENTAL STUDIES**

**5 hrs**

This course examines a current topic of environmental importance with a team of faculty representing several of the academic divisions: natural sciences, professional studies, humanities, arts, and social sciences. The course consists of multidisciplinary readings and seminars. ENST 401 is open to all senior students, and it is required as the capstone experience for students completing the environmental studies minor. ENST 401 also fulfills the SYE requirement.

**ENST 490 INTERNSHIP**

**1-15 hrs**

Internships are available to qualified students upon submission of a written proposal. Application to the Environmental Studies coordinator must be made one term in advance of the internship.





# Equine Science

*Mandeville (chairperson), Briggs, Calderone, Cryan, McNutt, Schmall.*

## **Mission and Programs**

The Department of Equine Science provides a comprehensive educational experience for students pursuing careers as professionals in the equine industry. The theory and analysis of academic studies are balanced by practical experience. Throughout, ethics and personal responsibility are strongly emphasized.

Instruction offers intensive classroom effort, practical applications and the opportunity for personal involvement in many facets of the equine industry. Students' development as contributing members to the larger human community is encouraged and advanced by our following commitments:

- practical application of academic principles
- student exposure to many aspects of the equine industry, including equestrian team competition
- ongoing program development to highlight the unique capabilities of our faculty, facilities, horses, and students with the general community, and to foster closer ties with local and national communities
- undergraduate research opportunities in nutrition, exercise physiology, and molecular genetics as well as current legal, business and ethical issues.

**Equine Business and Facility Management** is designed for the student whose primary interest is pursuing a career managing an equine facility, and/or being involved in other equine-related businesses, including equine insurance adjusters, bloodstock agents, editors and writers, administrators of racing and breeding organizations, racetrack and breeding farm administrators, and those involved in the marketing of horses or horse-related products. This interdisciplinary major draws courses from the Departments of Equine Science; Business, Accounting, and Economics; Communication; English; and Mathematical Sciences (Math and Computer Science courses).

**Equine Preveterinary Medicine/Pregraduate Studies** prepares students for entry into graduate school programs and colleges of veterinary medicine. Many undergraduate research opportunities are available. This major provides a unique opportunity for preveterinary medicine students to work with horses at the Equine Center, producing horse-experienced veterinary students.

**Equine Health Technology** offers a career as a Registered Veterinary Technician with an emphasis on horses. This major is derived from an articulation agreement between Columbus State Community College's Veterinary Technology Program, and Otterbein's Department of Equine Science. At the end of four years, with the successful completion of requirements from both institutions, the student will receive the Associate of Applied Science degree from Columbus State Community College, the Baccalaureate degree from Otterbein College and be eligible to take the Veterinary Technician National Examination and become registered as a Veterinary Technician by the Ohio Veterinary Medical Licensing Board. Columbus State Community College's Veterinary Technology Program is accredited by the American Veterinary Medical Association. Students complete half of their clinical experience at The Ohio State University Veterinary Teaching Hospital and half at a veterinary medical practice.



Students should be aware that Columbus State's tuition cost varies depending upon Ohio residency status.

**Equine Studies Minor** The goal of the Equine Studies minor is to provide a venue for those students majoring in another department, but who wish to further their knowledge of the equine and its care, with the option of furthering their equestrian skills. Students taking this minor will broaden their perspectives through their experiences working with horses.

### Other Requirements

All equine Science students attend 3 scheduled **Practicum** classes to increase proficiency in a variety of areas. Topics include novice bandaging, wound care and medical bandaging, forage evaluation, tractor maintenance, injection techniques, jump course design, body condition scoring, horse trailer driving, and career opportunities in the equine industry. By special permission, upper level Preveterinary Medicine and Equine Health Technology students may also attend the "Medical Rounds" Practicum at The Ohio State University College of Veterinary Medicine.

A **Service Learning** project is required of all majors. Students have the opportunity of working with physically or mentally challenged riders, 4H groups, inner city children, animal humane societies, or groups requiring knowledge of safe horse handling.

Pairs of students work together on the **Otterbein College Foalwatch Team**. These students foal over 70 mares during the winter and spring quarters at nearby Success Acres, Inc., a Standardbred breeding farm. This farm is also the site used for halter breaking foals in EQSC 301 Systems Course III and for learning to trim hooves in EQSC 290 Farrier Science II.

Otterbein also has three **Equestrian Teams** in hunt seat, dressage, and eventing. All levels of riders including non-equine majors are encouraged to participate. Riders take lessons at the equine center and compete in regional and national competitions. Riders must register in at least 2 group lessons a week to be eligible for any of the teams.

All students in the Department of Equine Science participate in designated equine activities with which Otterbein College is associated, such as horse shows, clinics, and guest lectures.

It is strongly recommended that all Equine Science majors take Health Education 280, First Aid and Computer Science 100, Computer Concepts and Applications. First Aid is required for the B.A. or B.S. Equine Business and Facility Management major.

Equine Science program fees are assessed for the following courses: Equine Science 110, 120, 130, 280, 290, 295, 296, 301, 302, 305, 311, 320, 330, 350 and 410.

A minimum grade of C- is required in all the required courses for each major. If a grade lower than C- is earned, the course must be repeated in order to enroll in subsequent courses.



## **B.A. or B.S. degree with a major in Equine Business and Facility Management**

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. (MATH 115 or 116 or 120) or 15 hrs for B.S. (MATH 120, 170 and 180)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (78-90 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> ACCT 200 - 5 hrs | <input type="checkbox"/> EQSC 130 - 3 hrs             |
| <input type="checkbox"/> ACCT 210 - 5 hrs | <input type="checkbox"/> EQSC 141 - 3 hrs (3 classes) |
| <input type="checkbox"/> BADM 300 - 5 hrs | <input type="checkbox"/> EQSC 280 - 2 hrs             |
| <input type="checkbox"/> COMM 280 - 5 hrs | <input type="checkbox"/> EQSC 305 - 5 hrs             |
| <input type="checkbox"/> C SC 100 - 3 hrs | <input type="checkbox"/> EQSC 320 - 5 hrs             |
| <input type="checkbox"/> ECON 210 - 5 hrs | <input type="checkbox"/> EQSC 330 - 3 hrs             |
| <input type="checkbox"/> ENGL 335 - 5 hrs | <input type="checkbox"/> EQSC 341 - 1 hr              |
| <input type="checkbox"/> EQSC 110 - 3 hrs | <input type="checkbox"/> EQSC 350 - 5 hrs             |
| <input type="checkbox"/> EQSC 111 - 1 hr  | <input type="checkbox"/> EQSC 410 - 5 hrs             |
| <input type="checkbox"/> EQSC 120 - 3 hrs | <input type="checkbox"/> EQSC 490 - 3 to 15 hrs       |
| <input type="checkbox"/> EQSC 125 - 3 hrs |   |

First Aid certification is required before graduation.

### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

### *Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

### *Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **B.A. or B.S. degree with a major in Equine Science Preveterinary Medicine/Pregraduate Studies**

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. (MATH 115 or 116 or 120) or 15 hrs for B.S. (MATH 120, 170 and 180)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (73 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 140 - 3 hrs | <input type="checkbox"/> EQSC 280 - 2 hrs |
| <input type="checkbox"/> CHEM 141 - 1 hr  | <input type="checkbox"/> EQSC 290 - 2 hrs |
| <input type="checkbox"/> CHEM 150 - 3 hrs | <input type="checkbox"/> EQSC 295 - 5 hrs |
| <input type="checkbox"/> CHEM 151 - 1 hr  | <input type="checkbox"/> EQSC 296 - 5 hrs |
| <input type="checkbox"/> CHEM 160 - 3 hrs | <input type="checkbox"/> EQSC 301 - 5 hrs |
| <input type="checkbox"/> CHEM 161 - 1 hr  | <input type="checkbox"/> EQSC 302 - 5 hrs |



- |   |   |
|---|---|
| <input type="checkbox"/> EQSC 110 - 3 hrs | <input type="checkbox"/> EQSC 311 - 5 hrs |
| <input type="checkbox"/> EQSC 111 - 1 hr  | <input type="checkbox"/> EQSC 341 - 1 hr  |
| <input type="checkbox"/> EQSC 120 - 3 hrs | <input type="checkbox"/> L SC 101 - 5 hrs |
| <input type="checkbox"/> EQSC 125 - 3 hrs | <input type="checkbox"/> L SC 102 - 5 hrs |
| <input type="checkbox"/> EQSC 130 - 3 hrs | <input type="checkbox"/> L SC 103 - 5 hrs |
| <input type="checkbox"/> EQSC 141 - 3 hrs |   |

- Internship experiences are strongly recommended.
- Suggested support courses for the Preveterinary Medicine student include CHEM 240/241/250/251/260/261/450/460, L SC 201/202/301/304, MATH 170/180 and PHYS 171/172/173.
- Students will work closely with their advisers to fulfill specific prerequisites of each individual science-related graduate program including veterinary medicine.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## ***B.A. degree with a major in Equine Health Technology***

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (MATH 115 or 116 or 120)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (124 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 110 - 5 hrs | <input type="checkbox"/> EQSC 295 - 5 hrs |
| <input type="checkbox"/> EQSC 110 - 3 hrs | <input type="checkbox"/> EQSC 296 - 5 hrs |
| <input type="checkbox"/> EQSC 111 - 1 hr  | <input type="checkbox"/> EQSC 301 - 5 hrs |
| <input type="checkbox"/> EQSC 120 - 3 hrs | <input type="checkbox"/> EQSC 302 - 5 hrs |
| <input type="checkbox"/> EQSC 125 - 3 hrs | <input type="checkbox"/> EQSC 311 - 5 hrs |
| <input type="checkbox"/> EQSC 130 - 3 hrs | <input type="checkbox"/> EQSC 341 - 1 hr  |
| <input type="checkbox"/> EQSC 141 - 3 hrs | <input type="checkbox"/> L SC 108 - 5 hrs |
| <input type="checkbox"/> EQSC 280 - 2 hrs | <input type="checkbox"/> L SC 109 - 5 hrs |
| <input type="checkbox"/> EQSC 290 - 2 hrs |   |

The following courses must be transferred from Columbus State by submitting an official transcript:

- ☐ HIMT 121 Advanced Medical Terminology - 3 hrs
- ☐ MATH 100 Calculations and Dosages - 2 hrs
- ☐ MULT 190 Radiation Protection - 2 hrs
- ☐ VET 122 Veterinary Parasitology - 3 hrs



- ☐ VET 124 Principles of Veterinary Radiology - 2 hrs
- ☐ VET 126 Principles of Veterinary Anesthesia - 3 hrs
- ☐ VET 133 Clinical Application I - 3 hrs
- ☐ VET 135 Veterinary Hematology - 5 hrs
- ☐ VET 136 Animal Health and Disease I - 3 hrs
- ☐ VET 138 Veterinary Surgical Techniques - 3 hrs
- ☐ VET 254 Clinical Seminar I - 2 hrs
- ☐ VET 262 Veterinary Pharmacology - 3 hrs
- ☐ VET 263 Clinical Application II - 3 hrs
- ☐ VET 266 Animal Health and Disease II - 3 hrs
- ☐ VET 267 Veterinary Urinalysis and Clinical Chemistry - 4 hrs
- ☐ VET 269 Veterinary Microbiology - 5 hrs
- ☐ VET 274 Clinical Seminar II - 2 hrs
- ☐ VET 291 Clinical Experience I - 6 hrs
- ☐ VET 293 Clinical Experience II - 6 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **Equine Studies Minor**

The goal of the Equine Studies minor is to provide a venue for those students majoring in another department, but who wish to further their knowledge of the equine and its care, with the option of furthering their equestrian skills. Students taking this minor will broaden their perspectives through their experiences working with horses.

*Required (at least 25 hrs):*

- ☐ EQSC 100 - 5 hrs (5 courses)
- ☐ EQSC 110 - 3 hrs\*
- ☐ EQSC 111 - 1 hr\*
- ☐ EQSC 141 - 3 hrs (3 courses)
- ☐ 13-17 hrs from among all other Equine Science offerings as long as the prerequisite requirements have been met
- ☐ At least 10 hrs from EQSC 200-499 of which at least 5 hrs must be from EQSC 300-499.
  - First Aid certification is strongly recommended before graduation.
  - \*Students will have the opportunity to test out of EQSC 110 and 111.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)



## Program Outcomes

**Equine Business and Facility Management:** This course of study prepares students for careers in the business and facility management aspects of the equine industry. The intensively horse-centered curriculum is balanced by strong business preparation.

Possible employment outcomes include positions in facility operation, specialized insurance, writing and publishing, administration of sport disciplines and breed organizations, racetrack, competition facility, farm and event management, as well as sales, marketing and distribution of horses and horse related products. Students wishing to pursue graduate degrees will be well prepared to apply to Law and Business Administration programs.

**Equine Science Preveterinary Medicine/Pregraduate Studies:** These courses of study prepare students for graduate school programs and colleges of veterinary medicine. Students are encouraged to engage in undergraduate research projects.

**Equine Health Technology:** This course of study prepares the student for a career as a Registered Veterinary Technician. The student may be qualified to work as a professional technician at any veterinary clinic or hospital, rehabilitation center, or breeding facility.

## Equine Science Courses (EQSC)

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491, and may have additional program fees.

### EQSC 100 HORSEBACK RIDING

1 hr

Safety and good horsemanship are stressed throughout all courses. During the 10-week academic quarter students receive a weekly class in dressage or hunt seat. Students will develop the skills necessary to compete in inter-scholastic/intercollegiate and/or open horse shows. Beginning riders will learn basic introductory skills in riding and horse care. All students must supply their own hard-soled, over-the-ankle boots. ASTM / SEI helmets and all other riding equipment are provided for beginners. Intermediate and advanced students must wear breeches and boots, or half chaps. All students must complete and pass the physical fitness test before they may ride. *All riding lessons carry an additional fee which is published in the Schedule of Classes available at the Registrar's Office.*

### EQSC 110 INTRODUCTION TO THE HORSE INDUSTRY

3 hrs

*Lecture.* This course is designed to introduce students to the horse industry. Aspects of equine evolution and the role of the horse throughout history will be examined, as well as their current and future uses. Parts of the horse, colors and markings will be covered. Different breeds and disciplines will be studied. *Students may take a proficiency test to receive advanced standing for this course.*



### **EQSC 111 BASIC HORSE HANDLING**

1 hr

*Laboratory.* Clinical work covers the practice of topics covered in EQSC 110, including handling, grooming and preventive health care, appropriate use of restraint, tack fitting and behavioral observation, with an emphasis on the safe and effective handling of animals, and ethical practices. *Students may take a proficiency test to receive advanced standing for this course.*

### **EQSC 120 EQUINE ANATOMY AND PHYSIOLOGY**

3 hrs

*Lecture.* This course is designed to introduce students to equine anatomy and physiology. Specifically, the course will cover bone and muscle anatomy and physiology as well as the physiology of the cardiovascular, respiratory, control, and digestive systems. Behavior with respect to cognition and the senses will be covered. Students will be introduced to equine genetics with respect to breeding and coat color. *Prereq: EQSC 110 or placement.*

### **EQSC 125 EQUINE MANAGEMENT & HEALTH MONITORING**

3 hrs

*Lecture and laboratory.* This course explores the important topic issues related to equine management and health monitoring. Students will study current equine management literature. It is designed to be an experiential course in which students spend up to 2 hours, 5 mornings a week at the Equine Center, and undertake the complete care and health monitoring of 2 horses. Lectures on selected equine management topics with current journal articles will be used in each week's rotation, highlighting the different philosophies and approaches to horse care and stable management. *Prereq: EQSC 111 or placement.*

### **EQSC 130 CONFORMATION AND JUDGING**

3 hrs

*Lecture.* This course is designed to help students develop the ability to critically judge horses. Aspects of conformation, blemishes and unsoundnesses will be covered. Proper way of going and gaits will also be examined. Students will learn to judge several disciplines, such as the halter horse, hunter under saddle, reining, equitation, using guidelines for criteria, placement and rationales. *Prereq: EQSC 110 or placement.*

### **EQSC 141 PRACTICUM**

1 hr

All majors are required to take three hours of practicum. Topics vary each quarter, and have included horse trailering, forage evaluation, wound care and bandaging, course design, tractor driving and maintenance, and many more. Students are welcome to make recommendations. *May be repeated for a maximum of five credits.*

### **EQSC 250 TEACHING METHODS**

3 hrs

*Lecture and laboratory.* This course is designed for the student who intends to teach riding and provides an in-depth study of the pupil, school horse, teaching techniques, business procedures, ethics and responsibilities. Students will observe and assist in the instruction of a riding class. *Prereq: EQSC 130 and permission. Riding test may be required.*



**EQSC 260 TEACHING PRACTICUM I****2 hrs**

Students continue to observe the instructor in a scheduled equitation class. Students will take full responsibility and prepare lessons for supervised instruction of a small group of students for eight weeks. *Prereq: EQSC 250.*

**EQSC 270 TEACHING PRACTICUM II****2 hrs**

The same format will be followed as for Teaching Practicum I except that students will teach riders who are at a more advanced level. *Prereq: EQSC 260; students who complete EQSC 270 will receive a rider instruction certificate.*

**EQSC 280 FARRIER SCIENCE I****2 hrs**

*Lecture and laboratory.* Lecture, demonstration and laboratory experience dealing with the anatomy and physiology of the foot and lower leg of the horse: bone structure, tendons, ligaments, innervation and circulation. Emphasis is on the internal anatomy of the foot as well as proper tools and shoe types. *Prereq: EQSC 120.*

**EQSC 290 FARRIER SCIENCE II****2 hrs**

*Lecture and laboratory.* Lecture, demonstration and laboratory experience related to the correction of conformation and motion through corrective trimming. The student obtains both theoretical and practical experience for a comprehensive study of lameness and methods of correcting pathological conditions that arise from poor conformation. Students also study techniques of specialty shoeing for a variety of conditions. *Prereq: EQSC 280 or permission of instructor.*

**EQSC 295 SYSTEMS COURSE I****5 hrs**

*Lecture and Laboratory.* The 4 systems courses deal with the anatomy, physiology, associated diseases or disorders, diagnostic techniques, treatment and care, and prevention as they relate to each body system. The courses are designed to allow the student to attain a global perspective and understanding of the horse as a functioning unit made up of interrelated and interdependent body systems. Systems Course I covers the following areas: ophthalmology, the respiratory and cardiovascular systems, hematology and immunology. Laboratory sessions include lessons in the application of ophthalmic medications, venipuncture, and administration of intramuscular injections and oral preparations.

*Prereq: EHLT majors: CHEM 110; EQSC 120; L SC 108, 109 or permission*

*EPRE majors: EQSC 120; L SC 101, 102, 103, or permission*

**EQSC 296 SYSTEMS COURSE II****5 hrs**

*Lecture and laboratory.* Systems Course II continues the study of the horse, by focusing on the gastrointestinal system, urinary system, and endocrinology. Especially emphasized are the many colic disorders that affect the horse. Laboratory sessions include dissection of the abdominal cavity, including the stomach, small intestine, cecum, large intestine, liver, and pancreas. In addition, the kidneys and bladder, and the reproductive tract of the mare and the stallion are dissected, in preparation for Systems Course III. Interested students may attend the annual four-day Midwest Veterinary Conference in February. *Prereq: EQSC 295, or permission.*



**EQSC 301 SYSTEMS COURSE III**

**5 hrs**

*Lecture and laboratory.* This course focuses on the broodmare, stallion, and the foal. Included is information about natural breeding, artificial insemination, and recent developments in frozen semen use and embryo transfer. A field trip to Lexington, Kentucky includes visiting a leading breeding facility and equine veterinary hospital. Laboratory experiences include proper and safe cleaning of the sheath and external genitalia, semen collection, observation of reproductive ultrasonography, foal imprinting, and halter breaking. Students are required to participate on the Foalwatch Team, which annually foals out approximately 70 broodmares. *Prereq: EQSC 296, or permission.*

**EQSC 302 SYSTEMS COURSE IV**

**5 hrs**

*Lecture and laboratory.* Systems Course IV focuses on the musculoskeletal and nervous systems, and the integument. Laboratory exercises include fore and rear limb dissection, lameness evaluation, radiography, tendon ultrasonography, nuclear scintigraphy, and other advanced diagnostic and therapeutic techniques. In the area of neurology, students learn to distinguish between lameness and neurologic deficits, and are exposed to many advanced diagnostic and therapeutic procedures used in neurology. *Prereq: EQSC 301, or permission.*

**EQSC 305 EQUINE MEDICAL MANAGEMENT**

**5 hrs**

*Lecture and laboratory.* This course is designed to provide information about the diseases against which horses are commonly vaccinated, methods of strategic parasite control, wound care, and medical bandaging. Students will be introduced to the basic principles of immunology which serve as the basis for vaccination programs. Using the guidelines of the American Association of Equine Practitioners, vaccination programs will be examined based on the intended use of the horse, the horse's age, and pregnancy status. Laboratory sessions will be devoted to techniques of medicine administration (oral administration and intramuscular injection), wound care, bandaging techniques, and the more common medications maintained at equine centers. *Prereq: EQSC 120 Equine Anatomy and Physiology.*

**EQSC 311 EQUINE NUTRITION**

**5 hrs**

*Lecture and laboratory.* An in-depth study of equine nutrition, including absorption, metabolism and feed sources of nutrients. Included are ration balancing, determining nutritive needs, the use of supplements, problems associated with feeds and feeding, and toxic plants. An introduction to exercise metabolism and feeding the equine athlete is also included. *Prereq: EQSC 301, or permission.*

**EQSC 320 EQUINE MARKETING**

**5 hrs**

*Lecture.* A study of business management practices as they commonly affect horse related businesses. The goals will be to develop skills to read, analyze, and produce financial statements; to analyze and develop creative marketing and business plans for an equine business; and to become an effective member of a consulting team. *Prereq: ACCT 200; ENG 335; EQSC 110 or placement, or permission.*



**EQSC 330 EQUINE FACILITY DESIGN AND AGRICULTURAL MANAGEMENT****3 hrs**

*Lecture and Laboratory.* This course focuses on the design and management of equine facilities from the point of view of horse management and logistical efficiency. Topics covered include facility layout and construction options as affected by climate and regional custom, pasture and waste management from nutritional and environmental points of view, material options for facility construction and ongoing operating supplies, equipment use and maintenance, storage and land use issues. Lab sessions include both hands on practice and field trips to area facilities. *Prereq: EQSC 110 or placement, or permission.*

**EQSC 341 SERVICE LEARNING****1 hr**

Students in Service Learning provide a program or a service to a group such as physically or mentally challenged riders, 4-H groups, inner city children, or groups requiring knowledge of safe horse handling. Students will prepare a statement of goals, objectives, methods, and the material to be covered. Students will be required to submit a short paper summarizing the experience. *Prereq: EQSC 110 or placement, and permission.*

**EQSC 350 LEGAL ASPECTS OF THE EQUINE INDUSTRY****5 hrs**

*Lecture.* This course provides an introduction to legal issues as they commonly affect the equine industry and exposure to legal research. Topics covered include purchase and sales law, personal injury and property damage liability, contracts, agency, employment issues, zoning and land use issues, environmental regulation, animal welfare regulation, and sports governance by private associations. *Prereq: ACCT 200, ENG 335, or permission.*

**EQSC 390 INDEPENDENT STUDY****1-5 hrs**

Students may pursue a minor research project or continue with more advanced work in equine science department offerings. *Prereq: EQSC 130, or permission of instructor.*

**EQSC 410 CONTEMPORARY AND EMERGING ISSUES****5 hrs**

*Lecture.* This course focuses on the controversial issues facing the equine industry. Topics may include cloning of horses, professional codes of conduct of veterinarians and trainers, the unwanted horse and horse slaughter, pregnant mare urine farms, rescue organizations, standards of care, rules of competitions, and social responsibility. *Prereq: Junior or senior level standing.*

**EQSC 490 INTERNSHIP****3-15 hrs**

Students are encouraged to engage in internship experiences throughout their academic careers. Official application and internship contract development should start no later than the beginning of the quarter prior to registration for the internship. If a final internship is required, it must be undertaken when all other equine science courses have been completed. *Prereq: Permission of instructor.*



# Foreign Languages

*Sartori (chairperson), Cornell, Galarce, Reis.*

## Mission and Programs

The department of Foreign Languages is composed of five full-time faculty members (two in French and three in Spanish), a number of adjunct faculty, and two first language assistants (one in French and one in Spanish). The department offers majors in French and in Spanish. Minors are offered in French and Spanish, and minors in German and Japanese are possible with study abroad.

The primary mission of the Department of Foreign Languages is to teach communication skills in a language or languages other than the first language and to develop in students an awareness, understanding, and appreciation of cultural systems other than their own. Secondly, the department prepares students for career opportunities in a world increasingly in need of citizens competent in other languages and assists them in adapting to the multi-ethnic environments and value orientations of others within our own pluralistic society. By recognizing universal features of language and culture, the Department of Foreign Languages strives to foster a sense of humanity; by recognizing linguistic and cultural differences, it strives to cultivate tolerance. This training in skills, knowledge, cultural awareness, and values is consonant with the liberal arts mission of Otterbein College.

## B.A. degree with a major in French

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (at least 45 total hrs):*

- ☐ a total of at least 45 hrs of FREN at the 200 level or above with at least 15 hrs at 300/400 level; FREN 370 and 490 cannot be counted toward the major
- Substitutions for any of these courses may be made through study abroad. For a list of the department's study abroad programs, see p. 267

### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

### *Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

### *Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## Minor in French

### *Required (at least 25 total hrs):*

- ☐ All hours from among any FREN courses at 200 level or above except 370 and 490.



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

**Minor in German**

*Required (at least 25 total hrs):*

- A minor in German may be completed by study in Germany. Courses must be approved in advance by the Department of Foreign Languages chairperson.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

**Minor in Japanese**

*Required (at least 25 total hrs):*

- A minor in Japanese may be completed by study in Japan. Courses must be approved in advance by the Department of Foreign Languages chairperson.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

**B.A. degree with a major in Spanish**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 15)
- ☐ Health and Physical Education/Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (at least 45 total hrs):*

- ☐ a total of at least 45 hrs of SPAN at the 200 level or above with at least 15 hrs at 300/400 level; SPAN 370 and 490 cannot be counted toward the major
- Substitutions for any of these courses may be made through study abroad. For a list of the department's study abroad programs, see p. 267.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Minor in Spanish**

*Required (at least 25 total hrs):*

- ☐ All hours from among any SPAN courses at 200 level or above except 370 and 490.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).



**French or Spanish language teacher licensure (grades P - 12):** Requirements for students seeking French or Spanish teacher licensure are listed in the *Teacher Education Programs* handbook, available in the Education Department. Requirements for the French and Spanish major and teacher licensure may differ somewhat, but both must be met to become licensed, and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

Students are urged to consider combining a major or minor in a foreign language with a second field such as business, political science, pre-med, sociology or international relations. Education majors should consider seeking teaching licensure in two languages.

Courses offered under **English as a Foreign Language** program are open only to students whose first language is not English and whose English proficiency is inadequate for pursuing regular academic work. Students are placed in the appropriate courses on the basis of an entrance examination in English. Students may leave the English program and register for courses in their major field of interest upon attaining a TOEFL score of 500 and/or receiving the recommendation of their instructor. No more than 15 quarter hours may be applied toward a degree.

### **Program Outcomes**

**French:** This program of study may qualify students to teach French in a private school, or to apply for graduate study in French or a related field. Students are encouraged to combine a major in French with course work in another area, such as, for example, international business, in which fluency in a second language is an asset.

**French Education:** This course of study leads to teacher licensure and prepares students for teaching French in the public school, Pre K-12. This program may also qualify the student to apply for graduate study in French and/or foreign language education, or to enter other related professions. Otterbein is accredited by the National Council for the Accreditation of Teacher Education (NCATE).

**Spanish:** This program of study may qualify students to teach Spanish in a private school, or to apply for graduate study in Spanish or a related field. Students are encouraged to combine a major in Spanish with course work in another area, such as, for example, international business, in which fluency in a second language is an asset.

**Spanish Education:** This course of study leads to teacher licensure and prepares students for teaching Spanish in the public school, Pre K-12. This program may also qualify the student to apply for graduate study in Spanish and/or foreign language education, or to enter other related professions. Otterbein is accredited by the National Council for the Accreditation of Teacher Education (NCATE).

### **French Courses (FREN)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



**FREN 100 ELEMENTARY FRENCH I****5 hrs**

The aim of this course is to provide beginning language students with skills in listening, speaking, reading and writing within a cultural context. Teacher-designed activities as well as videos and other culturally authentic materials are employed to ensure a rich communicative experience for students.

**FREN 110 ELEMENTARY FRENCH II****5 hrs**

A continuation of FREN 100.

**FREN 120 ELEMENTARY FRENCH III****5 hrs**

A continuation of FREN 110.

**FREN 140 INTERMEDIATE FRENCH****5 hrs**

A course designed to reinforce and develop further the skills acquired in Elementary French with increasing emphasis on reading, composition and cultural awareness.

**FREN 210 CONVERSATION/COMPOSITION****5 hrs**

This course is designed to maximize opportunities for development of oral and written proficiency. The activities provided are of the type that encourage students to use appropriate discourse strategies in a variety of contexts. In order to encourage creativity and risk taking, error correction will be focused on global rather than local errors. *Prereq: FREN 140.*

**FREN 220 ASPECTS OF THE FRENCH LANGUAGE****5 hrs**

The major goal of this course is to encourage linguistic accuracy, focusing particularly on grammatical structures and phonological, morphological, syntactical, and lexical components of the target language. *Prereq: FREN 210.*

**FREN 230 CONTEMPORARY FRANCE****5 hrs**

Introduction to contemporary France and French culture, including attitudes and values, family and social structure. *Prereq: FREN 210.*

**FREN 240 THE FRENCH HERITAGE****5 hrs**

A study of French civilization and culture from earliest times to the present. Lectures, readings, reports. *Prereq: FREN 210.*

**FREN 271 COMMERCIAL FRENCH****5 hrs**

A course designed to teach the essential vocabulary and style specific to French business and to introduce students to the basic workings of the French economy. Activities will provide students with experience in communicating in a variety of business contexts. *Prereq: FREN 210.*

**FREN 280 INTRODUCTION TO FRENCH LITERATURE****5 hrs**

An introduction to literary readings representative of various genres. *Prereq: FREN 210.*



**FREN 310 CONVERSATION/COMPOSITION**

5 hrs

This course provides an emphasis on oral and written discourse strategies. It allows the student to continue to develop skills learned in 210 and to extend that experience to include writing on abstract topics with precision and detail. *Prereq: FREN 210.*

**FREN 320 ASPECTS OF THE FRENCH LANGUAGE**

5 hrs

The fundamental goal of this course is to teach second language learners of French to comprehend abstract texts by (a) acquainting them with basic principles of the comprehension process and (b) guiding them in their application of those principles in their interaction with authentic texts. These texts illustrate various aspects of the language. *Prereq: FREN 210.*

**FREN 330 CONTEMPORARY FRANCE**

5 hrs

Advanced study of contemporary France and French culture, including attitudes and values, family and social structure. *Prereq: FREN 210.*

**FREN 340 THE FRENCH HERITAGE**

5 hrs

Advanced study of French civilization and culture. Topics range from earliest times to the present. *Prereq: FREN 210.*

**FREN 370 FOREIGN LANGUAGE TEACHING METHODS**

5 hrs

This course is designed to provide future foreign language teachers with a firm base in language learning theory as well as practical teaching techniques for language learners pre-K through 12. During the theoretical portion of the course, students will read and discuss topics related to first language acquisition and its relationship to second language learning. The remainder of the course will be devoted to the application of language learning theory to practice through peer and public classroom teaching. Students will also develop skills in explaining the benefits of foreign language both orally and in writing to a variety of audiences.

**FREN 380 TOPIC IN FRENCH LITERATURE**

3 or 5 hrs

Study of a period, movement, or genre. *Prereq: Three courses in the major.*

**FREN 390 INDEPENDENT STUDY**

1-5 hrs

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson is required.*

**FREN 490 INTERNSHIP**

1-15 hrs

**German Courses (GERM)**

**GERM 100 ELEMENTARY GERMAN I** 5 hrs

The aim of this course is to provide beginning language students with skills in listening, speaking, reading and writing within a cultural context. Teacher-designed activities as well as videos and other culturally authentic materials are employed to ensure a rich communicative experience for students.



**GERM 110 ELEMENTARY GERMAN II** 5 hrs

A continuation of GERM 100.

**GERM 120 ELEMENTARY GERMAN III** 5 hrs

A continuation of GERM 110.

**GERM 390 INDEPENDENT STUDY** 1-5 hrs

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson is required.*

**GERM 490 INTERNSHIP** 1-15 hrs**Italian Courses (ITAL)****ITAL 100 ELEMENTARY ITALIAN I** 5 hrs

The aim of this course is to provide beginning language students with skills in listening, speaking, reading and writing within a cultural context. Teacher-designed activities as well as videos and other culturally authentic materials are employed to ensure a rich communicative experience for students.

**ITAL 110 ELEMENTARY ITALIAN II** 5 hrs

A continuation of ITAL 100.

**ITAL 120 ELEMENTARY ITALIAN III** 5 hrs

A continuation of ITAL 110.

**Japanese Courses (JAPN)****JAPN 100 ELEMENTARY JAPANESE I** 5 hrs

The aim of this course is to provide beginning language students with skills in listening, speaking, reading and writing within a cultural context. Teacher-designed activities as well as videos and other culturally authentic materials are employed to ensure a rich communicative experience for students.

**JAPN 110 ELEMENTARY JAPANESE II** 5 hrs

A continuation of JAPN 100.

**JAPN 120 ELEMENTARY JAPANESE III** 5 hrs

A continuation of JAPN 110.

**Spanish Courses (SPAN)****SPAN 100 ELEMENTARY SPANISH I** 5 hrs

The aim of this course is to provide beginning language students with skills in listening, speaking, reading and writing within a cultural context. Teacher-designed activities as well as videos and other culturally authentic materials are employed to ensure a rich communicative experience for students.



**SPAN 110 ELEMENTARY SPANISH II** 5 hrs  
A continuation of SPAN 100.

**SPAN 120 ELEMENTARY SPANISH III** 5 hrs  
A continuation of SPAN 110.

**SPAN 140 INTERMEDIATE SPANISH** 5 hrs  
A course designed to reinforce and develop further the skills acquired in Elementary Spanish with increasing emphasis on reading, composition and cultural awareness.

**SPAN 210 CONVERSATION/COMPOSITION** 5 hrs  
This course is designed to maximize opportunities for development of oral and written proficiency. The activities provided are of the type that encourage students to use appropriate discourse strategies in a variety of contexts. In order to encourage creativity and risk taking, error correction will be focused on global rather than local errors. *Prereq: SPAN 140.*

**SPAN 220 ASPECTS OF THE SPANISH LANGUAGE** 5 hrs  
The major goal of this course is to encourage linguistic accuracy, focusing particularly on grammatical structures and phonological, morphological, syntactical, and lexical components of the target language. *Prereq: SPAN 140.*

**SPAN 230 LATIN AMERICAN CULTURE AND CIVILIZATION** 5 hrs  
Introduction to Latin American culture and civilization. Emphasis on contemporary institutions and problems as determined by cultural patterns and attitudes. *Prereq: SPAN 210.*

**SPAN 240 THE SPANISH HERITAGE** 5 hrs  
An introduction to the study of Spanish civilization, culture and political thought from the origins through the 19th century. *Prereq: SPAN 210.*

**SPAN 271 COMMERCIAL SPANISH** 5 hrs  
A course designed to teach the essential vocabulary and style specific to Spanish and Latin American business and to introduce students to the basic workings of the Spanish and Latin American economies. Activities will provide students with experience in communication in a variety of business contexts. *Prereq: SPAN 210 or 220.*

**SPAN 280 INTRODUCTION TO SPANISH LITERATURE** 5 hrs  
An introduction to literary readings representative of various genres. *Prereq: SPAN 210.*

**SPAN 310 CONVERSATION/COMPOSITION** 5 hrs  
This course provides an emphasis on oral and written discourse strategies. It allows the student to continue to develop skills learned in 210 and to extend that experience to include writing on abstract topics with precision and detail. *Prereq: SPAN 210.*



**SPAN 320 ASPECTS OF THE SPANISH LANGUAGE****5 hrs**

The fundamental goal of this course is to teach second language learners of Spanish to comprehend abstract texts by (a) acquainting them with basic principles of the comprehension process and (b) guiding them in their application of those principles in their interaction with authentic texts. These texts illustrate various aspects of the language. *Prereq: SPAN 210.*

**SPAN 330 LATIN AMERICAN CULTURE AND CIVILIZATION****5 hrs**

Advanced study of Latin American culture and civilization. *Prereq: SPAN 210.*

**SPAN 340 THE SPANISH HERITAGE****5 hrs**

Study of contemporary Spanish culture. Topics range from early 20th century to the present. *Prereq: SPAN 210.*

**SPAN 370 FOREIGN LANGUAGE TEACHING METHODS****5 hrs**

This course is designed to provide future foreign language teachers with a firm base in language learning theory as well as practical teaching techniques for language learner pre-K through 12. During the theoretical portion of this course, students will read and discuss topics related to first language acquisition and its relationship to second language learning. The remainder of the course will be devoted to the application of language learning theory to practice through peer and public classroom teaching. Students will also develop skills in explaining the benefits of foreign language both orally and in writing to a variety of audiences.

**SPAN 380 TOPIC IN LATIN AMERICAN OR SPANISH LITERATURE****3 or 5 hrs**

Study of a period, movement, or genre. *Prereq: Three courses in the major.*

**SPAN 390 INDEPENDENT STUDY****1-5 hrs**

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson is required.*

**SPAN 490 INTERNSHIP****1-15 hrs****Language and Culture Courses**

One of these courses is required of all students pursuing the B.A. degree in Liberal Studies in the Continuing Studies Program.

<b>FREN 105</b>	<b>FRENCH LANGUAGE AND CULTURE</b>	<b>5 hrs</b>
<b>GERM 105</b>	<b>GERMAN LANGUAGE AND CULTURE</b>	<b>5 hrs</b>
<b>JAPN 105</b>	<b>JAPANESE LANGUAGE AND CULTURE</b>	<b>5 hrs</b>
<b>SPAN 105</b>	<b>SPANISH LANGUAGE AND CULTURE</b>	<b>5 hrs</b>

The focus of these courses is an interdisciplinary study of diverse ethnic groups which make up Francophone, Germanic, Hispanic or Japanese culture through literature, non-fiction, music, and art. These courses examine the relationship between language and



culture through the use of authentic videos, films, literature in translation and selected readings. These courses investigate the influence of economic, sociological, cultural, and language elements on such issues as gender and class.

### ***English for Speakers of Other Languages Courses (ESOL)***

#### ***ESOL 101 ACADEMIC ENGLISH I***

5 hrs

The course focuses on fundamental communication skills for academic purposes, both written and oral. Emphasis will be on formal academic writing, as well as critical thinking skills. Students will develop all necessary competencies to successfully undertake their coursework in their major area of study. Acquisition of skills in prewriting, organization, grammar and mechanics, as well as sentence structure. *Course is open only to students admitted to the Gateway program.*

#### ***ESOL 102 ACADEMIC ENGLISH II***

5 hrs

A continuation of ESOL 101.

#### ***ESOL 103 ACADEMIC ENGLISH III***

5 hrs

A continuation of ESOL 102.



# Health and Sport Sciences

*Rocks (chairperson), Capwell, D'Arcy, Davis, Doup, Esselstein, Fischer, Goodwin, Kiger, Klein, Koons, Loth, A. Moore, R. Moore, Payne, Peters, Powell, Reynolds, Richardson, Sexton, Sullivan, Torman, Walter, Welsh, Wilkins, Wilson.*

## **Mission and Programs**

The Health and Sport Sciences Department will prepare students to become competent, self directed professionals through sound curricular programming, dedicated faculty, and appropriate facilities and equipment. Our mission will be accomplished by offering curricular programs that meet the requirements for both professional certifications\* and the liberal arts education. Faculty will seek excellence in their classroom teaching methods by remaining current in their fields, and employing practical and relevant learning activities. Likewise, faculty will provide academic advising to the students in order to ensure appropriate course selection, to assist them in identifying their personal strengths, and to enable them to pursue professional activities and opportunities commensurate with their talents. In addition, our facilities and equipment will support the academic programs of the department and complement the learning experiences provided by the faculty.

The Health and Sport Sciences Department is also dedicated to developing a positive life-long attitude toward a healthy lifestyle among all Otterbein students by providing appealing and innovative HPES series, which offers courses in health, fitness, recreation, and sport areas.

\*National Association for Sport and Physical Education (NASPE),  
American Association of Health Education (AAHE),  
Commission on Accreditation of Athletic Training Education (CAATE)  
North American Society for Sport Management (NASSM).

## **B.A. degree with a major in Athletic Training**

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 130 must be selected)
- ☐ Foreign Language - 10 hrs for BA; 15 hrs for BS (specifics on p. 15)
- ☐ Mathematics - 5 hrs for BA; 15 hrs for BS (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - HLED 402, a course required in the major, satisfies this requirement

### *Requirements in the major (87 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> ATHT 160 - 4 hrs | <input type="checkbox"/> ATHT 470 - 4 hrs |
| <input type="checkbox"/> ATHT 161 - 1 hr  | <input type="checkbox"/> ATHT 471 - 1 hr  |
| <input type="checkbox"/> ATHT 162 - 1 hr  | <input type="checkbox"/> ATHT 480 - 1 hr  |
| <input type="checkbox"/> ATHT 240 - 5 hrs | <input type="checkbox"/> ATHT 481 - 1 hr  |
| <input type="checkbox"/> ATHT 260 - 4 hrs | <input type="checkbox"/> ATHT 485 - 2 hrs |
| <input type="checkbox"/> ATHT 261 - 1 hr  | <input type="checkbox"/> CHEM 110 - 5 hrs |
| <input type="checkbox"/> ATHT 265 - 4 hrs | <input type="checkbox"/> HLED 270 - 5 hrs |



- |   |   |
|---|---|
| <input type="checkbox"/> ATHT 266 - 1 hr  | <input type="checkbox"/> L SC 108 - 5 hrs               |
| <input type="checkbox"/> ATHT 340 - 5 hrs | <input type="checkbox"/> L SC 109 - 5 hrs               |
| <input type="checkbox"/> ATHT 385 - 2 hrs | <input type="checkbox"/> MATH 230 - 5 hrs               |
| <input type="checkbox"/> ATHT 401 - 3 hrs | <input type="checkbox"/> PHED 380.30 - 5 hrs            |
| <input type="checkbox"/> ATHT 460 - 4 hrs | <input type="checkbox"/> PHED 440 - 5 hrs               |
| <input type="checkbox"/> ATHT 461 - 1 hr  | <input type="checkbox"/> PSYC 210 or 220 or 230 - 5 hrs |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### ***B.S. degree with a major in Athletic Training***

*Requirements in the Core Curriculum:*

See B.A. degree with a major in Athletic Training. Note difference in foreign language and mathematics.

*Requirements in the major (109 hrs or equivalent):*

- |   |   |
|---|---|
| <input type="checkbox"/> ATHT 160 - 4 hrs | <input type="checkbox"/> ATHT 480 - 1 hr              |
| <input type="checkbox"/> ATHT 161 - 1 hr  | <input type="checkbox"/> ATHT 481 - 1 hr              |
| <input type="checkbox"/> ATHT 162 - 1 hr  | <input type="checkbox"/> HLED 270 - 5 hrs             |
| <input type="checkbox"/> ATHT 240 - 5 hrs | <input type="checkbox"/> HLED 485 - 2 hrs             |
| <input type="checkbox"/> ATHT 260 - 4 hrs | <input type="checkbox"/> CHEM 140/141 - 4 hrs         |
| <input type="checkbox"/> ATHT 261 - 1 hr  | <input type="checkbox"/> CHEM 150/151 - 4 hrs         |
| <input type="checkbox"/> ATHT 265 - 4 hrs | <input type="checkbox"/> CHEM 160/161 - 4 hrs         |
| <input type="checkbox"/> ATHT 266 - 1 hr  | <input type="checkbox"/> L SC 108 - 5 hrs             |
| <input type="checkbox"/> ATHT 340 - 5 hrs | <input type="checkbox"/> L SC 109 - 5 hrs             |
| <input type="checkbox"/> ATHT 385 - 2 hrs | <input type="checkbox"/> MATH 230 - 5 hrs             |
| <input type="checkbox"/> ATHT 401 - 3 hrs | <input type="checkbox"/> PHED 380.30 - 5 hrs          |
| <input type="checkbox"/> ATHT 402 - 2 hrs | <input type="checkbox"/> PHED 440 - 5 hrs             |
| <input type="checkbox"/> ATHT 460 - 4 hrs | <input type="checkbox"/> PHYS 141/171 - 5 hrs         |
| <input type="checkbox"/> ATHT 461 - 1 hr  | <input type="checkbox"/> PHYS 142/172 - 5 hrs         |
| <input type="checkbox"/> ATHT 470 - 4 hrs | <input type="checkbox"/> PHYS 143/173 - 5 hrs         |
| <input type="checkbox"/> ATHT 471 - 1 hr  | <input type="checkbox"/> PSYC 210, 220 or 230 - 5 hrs |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ See B.A. degree with a major in Athletic Training.

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### ***B.A. degree with a major in Health Education***

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 130 must be selected)



- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major:*

*Majors must select a concentration in either Public Health or in Teacher Licensure.*

**1. Health Education Major with a concentration in Public Health**  
(73-78 hrs)

- |   |   |
|---|---|
| <input type="checkbox"/> HLED 180 - 2 hrs | <input type="checkbox"/> HLED 351 - 2 hrs     |
| <input type="checkbox"/> HLED 200 - 2 hrs | <input type="checkbox"/> HLED 380 - 4 hrs     |
| <input type="checkbox"/> HLED 210 - 5 hrs | <input type="checkbox"/> HLED 381 - 2 hrs     |
| <input type="checkbox"/> HLED 220 - 5 hrs | <input type="checkbox"/> HLED 490 - 10-15 hrs |
| <input type="checkbox"/> HLED 270 - 5 hrs | <input type="checkbox"/> L SC 111 - 5 hrs     |
| <input type="checkbox"/> HLED 280 - 3 hrs | <input type="checkbox"/> L SC 112 - 5 hrs     |
| <input type="checkbox"/> HLED 290 - 2 hrs | <input type="checkbox"/> PHED 380.10 - 5 hrs  |
| <input type="checkbox"/> HLED 310 - 3 hrs | <input type="checkbox"/> SOCL 120 - 5 hrs     |
| <input type="checkbox"/> HLED 320 - 3 hrs | <input type="checkbox"/> SYE 490 - 2 hrs      |
| <input type="checkbox"/> HLED 350 - 3 hrs |   |

Additional requirements for the Public Health concentration include:

- 2.5 GPA to be eligible for the internship
- C or better in all courses in the major

**2. Health Education Major with a concentration in Health Education Teacher Licensure (Multi-Age) (59 hrs)**

- |   |  |
|---|--|
| <input type="checkbox"/> HLED 180 - 2 hrs | <input type="checkbox"/> HLED 350 - 3 hrs    |
| <input type="checkbox"/> HLED 200 - 2 hrs | <input type="checkbox"/> HLED 351 - 2 hrs    |
| <input type="checkbox"/> HLED 210 - 5 hrs | <input type="checkbox"/> HLED 380 - 4 hrs    |
| <input type="checkbox"/> HLED 220 - 5 hrs | <input type="checkbox"/> HLED 381 - 2 hrs    |
| <input type="checkbox"/> HLED 270 - 5 hrs | <input type="checkbox"/> L SC 111 - 5 hrs    |
| <input type="checkbox"/> HLED 280 - 3 hrs | <input type="checkbox"/> L SC 112 - 5 hrs    |
| <input type="checkbox"/> HLED 310 - 3 hrs | <input type="checkbox"/> PHED 380.10 - 5 hrs |
| <input type="checkbox"/> HLED 320 - 3 hrs | <input type="checkbox"/> SOCL 120 - 5 hrs    |

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for degree:*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Health Education Teacher Licensure concentration (Multi-Age):** Additional requirements for students seeking Health Education Teacher Licensure are listed in the *Teacher Education Programs* handbook available in the Education Department. Requirements for the health education major and teacher licensure may differ, but both must be met to become licensed and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must:



- have minimum Math & English scores of 20 on ACT **or** 500 on SAT, **or** Praxis I score of 172, **and**
- have a cumulative grade point average of 2.5 or better, a 2.5 grade point average in the teaching area, **and** a C or better in all major and education required courses, **and**
- be in good standing with the Education Department, **and**
- have positive recommendations from student teaching, **and**
- have successfully passed the appropriate Praxis II exams.

### **B.A. degree with a major in Health Promotion and Fitness**

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - 2 hrs (SYE 490 Internship Seminar)

#### *Requirements in the major (82-87 hrs or equivalent):*

- |   |  |
|---|--|
| <input type="checkbox"/> ATHT 340 - 5 hrs | <input type="checkbox"/> HLED 381 - 2 hrs    |
| <input type="checkbox"/> HLED 180 - 2 hrs | <input type="checkbox"/> HLED 390 - 5 hrs    |
| <input type="checkbox"/> HLED 200 - 2 hrs | <input type="checkbox"/> HLED 410 - 3 hrs    |
| <input type="checkbox"/> HLED 210 - 5 hrs | <input type="checkbox"/> HLED 411 - 3 hrs    |
| <input type="checkbox"/> HLED 220 - 5 hrs | <input type="checkbox"/> LSC 111 - 5 hrs     |
| <input type="checkbox"/> HLED 270 - 5 hrs | <input type="checkbox"/> LSC 112 - 5 hrs     |
| <input type="checkbox"/> HLED 280 - 3 hrs | <input type="checkbox"/> PHED 440 - 5 hrs    |
| <input type="checkbox"/> HLED 305 - 3 hrs | <input type="checkbox"/> PHED 380.40 - 5 hrs |
| <input type="checkbox"/> HLED 315 - 3 hrs | <input type="checkbox"/> PHED 490 - 2 hrs    |
| <input type="checkbox"/> HLED 380 - 4 hrs | <input type="checkbox"/> SYE 490 - 2 hrs     |

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

#### *Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

#### *Application for degree:*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **B.A. degree with a major in Physical Education**

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 130 must be selected)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

#### *Requirements in the major (83 hrs or equivalent):*

- |   |  |
|---|--|
| <input type="checkbox"/> ATHT 340 - 5 hrs | <input type="checkbox"/> PHED 370 - 2 hrs    |
| <input type="checkbox"/> PHED 130 - 3 hrs | <input type="checkbox"/> PHED 380.10 - 5 hrs |



- ☐ PHED 140 - 3 hrs
- ☐ PHED 150 - 5 hrs
- ☐ PHED 170 - 3 hrs
- ☐ PHED 212 - 3 hrs
- ☐ PHED 220 - 2 hrs
- ☐ PHED 310 - 4 hrs
- ☐ PHED 320 - 4 hrs
- ☐ PHED 330 - 3 hrs
- ☐ PHED 360 - 3 hrs

- ☐ PHED 410 - 4 hrs
- ☐ PHED 440 - 5 hrs
- ☐ PHED 480 - 4 hrs
- ☐ HLED 200 - 2 hrs
- ☐ HLED 220 - 5 hrs
- ☐ HLED 270 - 5 hrs
- ☐ HLED 280 - 3 hrs
- ☐ L SC 111 - 5 hrs
- ☐ L SC 112 - 5 hrs

**Residence Requirement:**

- ☐ Must be fulfilled by all transfer students (see p. 24)

**Required total hours for the degree:**

- ☐ At least 180 (also see exceptions/additional comments on p. 24).

**Application for Degree**

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Physical Education Teacher Licensure (Multi-Age):** Requirements for students seeking physical education teacher licensure are listed in the *Teacher Education Programs* handbook available in the Education Department. Requirements for the physical education major and teacher licensure may differ somewhat, but both must be met to become licensed and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must

- have minimum Math & English scores of 20 on ACT or 500 on SAT, or Praxis I score of 172, and
- a cumulative grade point average of 2.5 or better, a 2.5 grade point average in the teaching area, and a C or better in all major and education required courses, and
- be in good standing with the Education Department, and
- have positive recommendations from student teaching, and
- have successfully passed the appropriate Praxis II exams.

**B.A. degree with a major in Sport Management**

**Requirements in the Core Curriculum:**

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - 2 hrs (SYE 490 Internship Seminar)

**Requirements in the major (91 hrs or equivalent):**

- ☐ SMGT 180 - 5 hrs
- ☐ SMGT 240 - 5 hrs
- ☐ SMGT 250 - 4 hrs
- ☐ SMGT 355 - 5 hrs
- ☐ SMGT 385 - 5 hrs
- ☐ SMGT 390 - 5 hrs
- ☐ ACCT 200 - 5 hrs
- ☐ ACCT 210 - 5 hrs
- ☐ C SC 100 - 3 hrs
- ☐ COMM 280 - 5 hrs
- ☐ ECON 210 - 5 hrs
- ☐ MATH 230 - 5 hrs



- ☐ SMGT 392 - 4 hrs
- ☐ SMGT 393 - 4 hrs
- ☐ SMGT 490 - 15 hrs

- ☐ SYE 490 - 2 hrs
- ☐ PHED 380.20 - 5 hrs
- ☐ PHED 480.20 - 4 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Minor in Coaching**

*Required (all of these courses):*

- ☐ ATHT 340 - 5 hrs
- ☐ HLED 150 - 3 hrs
- ☐ HLED 280 - 3 hrs
- ☐ PHED 290 - 6 hrs
- ☐ PHED 310 or 320 - 4 hrs
- ☐ PHED 440 - 5 hrs

- ATHT 340 has prerequisites of L SC 111 and MATH 115. PHED 440 has prerequisites of L SC 111, 112 and MATH 115.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Minor in Health Education**

*Required (all of these courses):*

- ☐ HLED 180 - 2 hrs
- ☐ HLED 210 or 220 - 3 or 5 hrs
- ☐ HLED 270 - 5 hrs
- ☐ HLED 280 - 3 hrs
- ☐ HLED 310 - 3 hrs
- ☐ HLED 320 - 3 hrs
- ☐ HLED 350 - 3 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Minor in Physical Education**

*Required (all of these courses):*

- ☐ ATHT 340 - 4 hrs
- ☐ HLED 270 - 5 hrs
- ☐ HLED 280 - 3 hrs
- ☐ PHED 170 - 3 hrs
- ☐ PHED 310 - 4 hrs
- ☐ PHED 320 - 4 hrs
- ☐ PHED 380 - 5 hrs
- ☐ PHED 440 - 5 hrs

- ATHT 340 has prerequisites of L SC 111 and MATH 115. PHED 440 has prerequisites of L SC 111, 112 and MATH 115.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Minor in Sport Management**

*Required (all of these courses):*

- ☐ SMGT 180 - 5 hrs
- ☐ SMGT 393 - 4 hrs



- ☐ SMGT 240 - 5 hrs
- ☐ SMGT 355 - 5 hrs
- ☐ SMGT 385 - 5 hrs
- ☐ SMGT 392 - 4 hrs
- ☐ a 15 hour internship is optional (SMGT 490)
- ☐ ACCT 200 - 5 hr
- ☐ ECON 210 - 5 hrs
- ☐ PHED 380.20 - 5 hrs

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

## **Program Outcomes**

The Athletic Training education program is accredited by CAATE (Commission on Accreditation for Athletic Education Training Programs) and the Joint Review Committee on Athletic Training (JRC-AT).

The **B.A. in Athletic Training** is designed to qualify the student to sit for the Board of Certification (BOC) National Exam as well as prepare the student for work in a clinical, high school, or industrial setting where the Bachelor of Arts degree is the highest degree earned. The addition of statistics and a research design course also helps prepare the student for graduate school programs in exercise physiology, athletic training, physician's assistant, or other allied healthcare professions. Students are encouraged to consider postgraduate work, especially if collegiate and professional settings are aspired.

A double major in secondary education is also possible with the B.A. in the Athletic Training track. Any area of teaching licensure may be possible, although those in health education, physical education or the biological sciences are most easily combined with the athletic training curriculum. Students selecting the double major (secondary education and athletic training) will most likely teach and perform athletic training duties in a secondary school.

The **B.S. in Athletic Training** is designed to qualify the student to sit for the Board of Certification (BOC) National Exam as well as allow the student to seek postgraduate education in science-demanding fields, such as medicine, athletic training or physical therapy. This program contains significant chemistry and physics components to help meet the prerequisites of such graduate programs.

**Program Entrance Requirements:** For entry into the athletic training program, the following first year requirements must be met:

- 1) Completion of L SC 108 and 109 with a grade of C or higher.
- 2) Completion of ATHT 160, 161, and 162 with a grade of C or higher.
- 3) Completion of directed observation hours.
- 4) Completion of the Program Application Form.
- 5) Achievement of an overall GPA of 2.5 or higher.

**Health Requirements:** Athletic Training students are held to the same health care standards as all athletes who participate in intercollegiate athletics. Therefore, all athletic training students are required to complete the physical exam process by the College's team physicians. Students must also provide proof of up-to-date immunizations as specified by the Student Health Center.

**Technical Standards Requirements:** In addition to the requirements stated in the application procedures for entry into the Otterbein College Athletic Training Program, the student will also need to submit documentation of satisfactory qualifications illustrat-



that they are physically and mentally qualified to participate in the expected athletic training academic and clinical requirements. In order to accomplish the aforementioned requirements, the student will need to complete a physical, which is identical to the athlete's physicals, which will be conducted by our Team Physician. At that time, the student will be reminded of the academic and physical demands of the program and can freely discuss any concerns or needs for accommodations with the appropriate medical personnel. In the event that accommodations are necessary, the student and athletic training program personnel will coordinate the necessary needs of the individual student with the team physician. The paragraphs below will give the potential student a more detailed explanation of what is to be expected in the athletic training program.

### **Physical demands**

The potential athletic training student should be aware of the physical and mental requirements needed to pass the academic and clinical components of the Athletic Training Education Program. If the student is unable to pass the physical requirements of the Athletic Training Program, they will be unable to pass the national certification exam required to become a Certified Athletic Trainer. If the potential athletic training student has physical limitations that may prevent them from completing the clinical component of the program, written permission from a physician must be provided to ensure that they can perform the required physical duties in a safe manner. This can be completed at the time the student completes their physical examination with the Otterbein College Team Physician.

Some examples of the physical requirements include:

Transporting injured athletes from the field

Carrying heavy 10 gallon water containers

Carrying heavy medical kits

Completing physical testing procedures of muscles and ligaments to all body joints, etc.

Completing all taping procedures in a reasonable amount of time.

Running across uneven field surfaces in a reasonable amount of time to care for emergency situations.

Assist in lifting injured athletes and carrying such athlete for a short distance so they are out of harms way.

Be able to perform CPR and First Aid procedures.

### **Confidentially**

Additionally, as a member of the Otterbein College medical staff, each student should be aware of the confidential nature of medical files and circumstances that they may experience. All medical information that is presented to each athletic training student must be kept and handled in a confidential manner. Athletic training students must understand that they will be placed in the position where the athletes they are caring for, may come to them in confidence regarding their health issues.

### **Cognitive and Communication abilities**

Athletic Training Program contains rigorous coursework that at times, may give the student a sense of feeling mentally overloaded with too much to learn and/or too many



responsibilities to handle. In addition, students will be expected to demonstrate the ability to analyze, think critically, synthesize and integrate information both from previous athletic training courses and within current athletic training course so they may be able to collectively apply the knowledge they are acquiring. In the case where the student feels overburdened with any academic expectation, they are strongly encouraged to contact their supervising certified athletic trainer to develop a plan to handle the academic and/or clinical requirements of the Athletic Training Program. Every effort will be made to ensure the academic success of each student enrolled in the Athletic Training Program. *Please note that a minimum of a 2.5 GPA at Otterbein is required to enter the athletic training program.*

Athletic training students will also be expected to demonstrate and acquire interpersonal skills, which are appropriate for the many different personal and professional situations that they may encounter during their educational processes. Likewise, students must be able to demonstrate the ability to speak and write the English language in order to complete the requirements of the athletic training program.

#### **IV) Requesting Special Needs**

At the time of completion of the physical examination, students who feel that they need special accommodations in order to complete the athletic training program, may do so on the advice of the team physician, athletic training program director, and head athletic trainer of Otterbein College. All potential needs will be designed in accordance with institutional standards and academic policies. Students may contact the Academic Dean's office at any time if they wish to discuss available academic support services that are offered at the college.

#### **V) Immunizations**

As stated in the athletic training student manual, athletic training students are also required to have a complete immunization record. This is the same requirement of athletes and the immunization record should be complete at the time that the physical is conducted.

Athletic training students, upon admission to the Athletic Training Program, must receive a physical that is identical in nature to the physical received by all athletes wishing to participate at Otterbein College. At the time of the physical, the athletic training student will be given the technical standards statement of the Athletic Training Program, and they will be required to sign and date the statement. A signature will indicate that each student fully understands the physical and cognitive requirements of the program.

Students wishing to enter the Athletic Training Program who have either a physical or cognitive disability will be evaluated on a case-by-case basis to determine the degree of accommodations that must be made in order to comply with the demands of the Athletic Training Program. Accommodations may take the form of physical help or accommodations from faculty, staff and students, assigning a tutor or academic help through the Academic Support Center, or other means to seek the health, safety, and academic success of each athletic training student.

The course of study in **Health Education** may lead to licensure for teaching health in the public schools. Students not interested in teaching licensure but are considering



a career in health-related work should review the program in Health Promotion and Fitness. Students will be prepared to sit for the Certified Health Education Specialist Exam.

**Health Promotion and Fitness** majors will combine the skills of a health promotion specialist with a major emphasis in the service areas to allow them to seek careers in corporate wellness, personal training and community health. Possible employment would be in corporations, recreation centers, fitness clubs, non-profit health agencies, health-care facilities, government agencies and state and local health departments. This major has a science background.

The course of study in **Physical Education** may lead to the special licensure for teaching physical education in the public schools. Students not interested in licensure may consider related fields and careers and should review the programs in Sport Management and or in Health Promotion and Fitness.

The academic coursework in the **Sport Management** major allows for skill and knowledge development that will prepare individuals for possible employment with professional sports teams, colleges and universities, corporations, and commercial sport establishments. Individuals wishing to pursue an advanced degree in sport management will have received a strong academic and practical skill foundation in sport and business that will enable them to continue their education.

### **Athletic Training Courses (ATHT)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

#### **ATHT 160 BASIC ATHLETIC TRAINING**

4 hrs

A study of the athletic training profession and duties of the certified athletic trainer. NATA history and structure, basic injury evaluation, treatment, conditioning and CPR/First Aid are major aspects of focus. *Open to Athletic Training majors only.*

#### **ATHT 161 BASIC ATHLETIC TRAINING LAB**

1 hr

This course is designed to supplement the HLED 160 course - Basic Athletic Training. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: HLED 160.*

#### **ATHT 162 FRESHMAN PRACTICUM IN ATHLETIC TRAINING**

1 hr

This course will focus on clinical skill development for first year athletic training students. The course is designed to enhance skills previously learned through Basic Athletic Training (ATHT 160) as well as learn new clinical skills that are pertinent to the first year of study in athletic training. *Prereq: ATHT 160 and 161.*

#### **ATHT 240 NUTRITION AND PHARMACOLOGY**

5 hrs

Upon completion of this course, students will be able to have a basic understanding of "normal" nutrition and the role that nutrition plays in the physically active individual. Students will be able to understand how specific nutritional concepts can be applied to their own dietary habits as well as those of the athletes they are working with.



Students will also understand how basic pharmacological agents can affect the body and physical activity. Along with using sound nutritional practices, the student will be able to understand the indications, contraindications, precautions, and interactions of medications and they may affect and/or alter physical activity. *Prereq: L SC 108 and 109. Open to Athletic Training majors only.*

**ATHT 260 ADVANCED ATHLETIC TRAINING I****4 hrs**

Common mechanisms and pathologies of common injuries and conditions to the lower extremity. Evaluation of common injuries to the lower extremities will be an integral part of course content. *Prereq: ATHT 160, L SC 108 and 109.*

**ATHT 261 ADVANCED ATHLETIC TRAINING LAB****1 hr**

This course is designed to supplement the ATHT 260 course - Advanced Athletic Training I. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: ATHT 260.*

**ATHT 265 ADVANCED ATHLETIC TRAINING II****4 hrs**

Common mechanisms and pathologies of common injuries and conditions to the upper extremity. Evaluation of common injuries to the upper extremities will be an integral part of course content. *Prereq: ATHT 260. Coreq: 100 internship hours.*

**ATHT 266 ADVANCED ATHLETIC TRAINING LAB****1 hr**

This course is designed to supplement the ATHT 265 course Advanced Athletic Training II. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: ATHT 265.*

**ATHT 340 KINESIOLOGY****5 hrs**

The study of muscles, bones, and joints as they are involved in the science of movement as it pertains to the development of knowledge, physical skills, and attitudes toward the athlete and the sport or physical activity.

**ATHT 380 ORGANIZATION AND MANAGEMENT OF  
ATHLETIC TRAINING****5 hrs**

The nature, culture and mechanisms of organizations and management of educational athletic training programs and sports health administration.

**ATHT 385 JUNIOR ATHLETIC TRAINING PRACTICUM****2 hrs**

This course is designed to help junior athletic training major(s) connect their classroom instruction to their clinical education. Specific clinical competencies will be taught as well as current issues related to the student's clinical experiences to date. This course will provide reflection on the acquired athletic training knowledge as well an understanding and application of that knowledge to the clinical education setting. *Prereq: Junior standing in the Athletic Training Education Program or permission of the instructor.*



**ATHT 401 RESEARCH AND DESIGN IN ATHLETIC TRAINING** 1 hr

The purpose of this course is to introduce the senior athletic training major to scientific research in the field. Each student will identify an area of interest and carry out a mini-thesis as the senior capstone course. Through this project the student will gain an appreciation for literature search and review, research design and the oral and written skills developed in research writing. *May be repeated for a maximum of 3 credits. Prereq: MATH 230 and senior standing in the program.*

**ATHT 402 INTERDISCIPLINARY SEMINAR IN ATHLETIC TRAINING** 2 hrs

The purpose of this course is to provide the senior athletic training major the opportunity to discuss and research current issues in the field of athletic training. This course is considered to be the culminating senior year experience for all athletic training majors. It will provide practical application of theoretical knowledge gained in the classroom by bringing all senior athletic training majors together to research, discuss, construct and formalize the individual philosophies that are being developed. *Prereq: Open only to Athletic Training majors in their senior year.*

**ATHT 460 CLINICAL MODALITIES** 4 hrs

A study of the physiological basis for application of modalities in the treatment of (common) athletic injuries. Principles of electricity, magnetic fields, heat transfer, cryotherapy and hydrotherapy will be covered. *Prereq: ATHT 260 and 265, or permission of the instructor.*

**ATHT 461 THERAPEUTIC MODALITIES LAB** 4 hrs

This course is designed to supplement the HLED 460 course - Therapeutic Modalities. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: ATHT 460.*

**ATHT 470 PRINCIPLES OF REHABILITATION** 4 hrs

A study of the components of rehabilitation protocols and exercise prescriptions. An overview of common surgical procedures and clinical applications of rehabilitation equipment. *Prereq: ATHT 260, 265, 460, L SC 108 and 109, or permission of the instructor.*

**ATHT 471 REHABILITATION TECHNIQUES LAB** 1 hr

This course is designed to supplement the HLED 470 course - Rehabilitation Techniques. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: ATHT 470.*

**ATHT 480 AWARENESS OF GENERAL MEDICAL CONDITIONS IN ATHLETIC TRAINING** 1 hr

This course is designed to bring an awareness to the student athletic trainer of general medical conditions that may be seen in the physically active population, specifically those conditions which may become exacerbated with physical activity. Common



illnesses and diseases of all the bodies system will be explored, along with an understanding of their history, signs, symptoms and general treatment protocols. The roles of medical and allied health personnel in the referral, management, and treatment of athletes and others involved in physical activity suffering from general medical conditions will also be examined. A practical lab component is included with this course. *Prereq: Senior standing in the Athletic Training Education Program or permission of the instructor.*

#### **ATHT 481 GENERAL MEDICAL CONDITIONS LAB**

**1 hr**

This course is designed to supplement the ATHT 480 course - General Medical Conditions in Athletic Training. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Co-req: HLED 480.*

#### **ATHT 485 SENIOR ATHLETIC TRAINING PRACTICUM**

**2 hrs**

This course is designed to help senior athletic training majors connect their classroom instruction to their clinical education. Specific clinical competencies will be taught as well as current issues related to the student's clinical experiences to date. This course will provide reflection on the acquired athletic training knowledge as well an understanding and application of that knowledge to the clinical education setting. *Prereq: Senior standing in the Athletic Training Education Program or permission of the instructor.*

### **Health Education Courses (HLED)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

#### **HLED 150 CARE AND PREVENTION OF ATHLETIC INJURIES**

**3 hrs**

This course introduces the prevention, recognition, disposition and treatment of athletic injuries as approached by coach/teacher professional. Basic conditioning, identification of injury, predisposition factors, basic evaluation and treatment of injuries and taping/bracing principles will be presented. *This course is open to students other than those majoring in Athletic Training.*

#### **HLED 180 PROFESSIONAL PERSPECTIVES IN HEALTH EDUCATION**

**2 hrs**

This course is designed to acquaint students with basic information, history, philosophy, professional organizations and competencies unique to Health Education in the school, worksite, and community settings. The competencies for entry-level health educators will be introduced in this course and a portfolio documenting achievement in each competency will be started.

#### **HLED 200 HEALTH AND FITNESS TECHNOLOGIES**

**2 hrs**

A skill-oriented course designed to introduce students to presentation skills and technologies utilized in the health promotion, health education, and physical education



fields. *Open only to Health Education, Health Promotion and Fitness, and Physical Education majors or permission of the instructor.*

**HLED 210 COMMUNITY HEALTH**

5 hrs

This course focuses on personal, social and environmental health issues that affect community health. It will address population-based strategies designed to reduce prevalence of health risk factors and incidence of disease and injury in various population groups and settings. Roles of public health agencies and organizations will be explored. A service learning component involves students in health education skills including hands-on assessment of needs, program planning, implementation and evaluation of community health initiatives.

**HLED 220 NUTRITION AND FITNESS**

5 hrs

This course focuses on nutrition needs of individuals at various stages of the life cycle and at varying levels of physical activity. Emphasis is on understanding how the biological process involved in nutrition relate to practical daily dietary practices and long term health status. Students will experience hands on application of health education skills including needs assessment, dietary change strategies, evaluation, and communication of nutrition information.

**HLED 250 HEALTH EDUCATION FOR EARLY CHILDHOOD**

3 hrs

This course studies the components of the Comprehensive School Health Program and the role of the early childhood educator. It focuses on the ability to create, select, and evaluate developmentally and functionally appropriate health materials, methods, equipment, and environments. Emphasis is placed on integrating school, family, and community resources to insure sound health promotion programs for early childhood education. *Open to Early Childhood Education majors only.*

**HLED 270 PERSONAL HEALTH**

5 hrs

This course focuses on issues related to individual health status throughout the life span. It includes topics related to chronic and communicable diseases, injuries, nutrition, physical activity, substance use and abuse, human sexuality, mental health, and social/environmental factors affecting personal health. Involvement of students in health education skills including use of technology, personal assessment, planning and implementing personal health behavior change, reflection and communication of health information will be included.

**HLED 280 FIRST AID/CPR**

3 hrs

A study of emergency care of the injured or ill including accident prevention, principles and techniques of first aid and common medical emergencies and CPR/AED. Students will obtain certification from the National Safety Council for first aid and from the American Heart Association for CPR/AED. *Required for state certification for physical education majors.*

**HLED 290 PUBLIC HEALTH EDUCATION FIELD PRACTICUM** 2 hrs

This field practicum provides an opportunity for students to gain experience with health education-related jobs and community settings in which health educators practice,



for the purpose of gaining practical “hands-on experience in settings which might be appropriate for future internship and/or career possibilities. Students will spend 60 hours in on-site observation and assistance with community agency/organization health education activities, as well as conducting individual research regarding the assets, challenges and unique aspects of practicing health education in different settings. Practicum sites are to be arranged in advance of practicum. Course may be repeated once for 2 additional credits. Scheduling arranged individually.

### **HLED 305 EXERCISE PROGRAMMING FOR SELECTED POPULATIONS**

**3 hrs**

This course builds on the foundations established in previous course work when the focus was on exercise for the general population. As a health promotion and fitness instructor/facilitator, one will be exposed to increasingly diverse populations with wide-ranging challenges. Content focuses on specific characteristics and health challenges for children, older adults and women as well as recommendations for safe, effective physical activity for persons having major health problems such as coronary artery disease, diabetes, asthma and obesity. *Prereq: junior or senior HPED major.*

### **HLED 310 ALCOHOL, TOBACCO AND DRUGS: A HEALTH PERSPECTIVE**

**3 hrs**

This course examines the historical, personal and cultural basis for current patterns of use, misuse, and abuse of drugs, alcohol and tobacco. Strong emphasis is placed on application of health education skills related to assessing needs, planning, implementing and evaluating substance abuse prevention program initiatives on campus, communicating health information and evaluation results.

### **HLED 315 FITNESS LEADERSHIP**

**3 hrs**

This course will provide the learner with the opportunity to discover and practice working with an individual or group in an actual fitness/wellness setting. There will be delivery of information followed by practical application of such information in developing an effective leadership style that translates into positive growth of the fitness participant. *Prereq: junior or senior HPED major.*

### **HLED 320 HUMAN SEXUALITY**

**3 hrs**

This course explores human sexuality from a variety of perspectives including historical, psychological, biological, ethical, and legal. It will address the origin and diversity in attitudes and behaviors related to sexuality. Students will be involved with application of health education skills including exploration of community resources, research and communication of information related to human sexuality. Technology, reflection and application will be integrated into the course.

### **HLED 350 HEALTH EDUCATION PROGRAMS**

**3 hrs**

This course is required for multi-age health education licensure and school nurse licensure. Focus is on innovative teaching-learning experiences for health educators in all settings. Content includes curriculum, materials, technology resources, instructional methods, and assessment/evaluation techniques in health instruction in various settings and populations with a focus on PreK-12. Content will focus on the Coordinated



School Health Program, Health Literacy, National Health Education Standards, Healthy People 2010 and CDC Risk Behaviors. *Prereq: HLED 180 and 270.*

### **HLED 351 HEALTH EDUCATION PROGRAMS FIELD EXPERIENCE**

**2 hrs**

Teaching experience in a middle school health education setting for the multi-age health educator and school nurse.

### **HLED 380 HEALTH PROGRAM PLANNING AND EVALUATION**

**4 hrs**

Introduction to current models of health education programming in a variety of settings. Addresses the issues of sociological, environmental, cultural and socioeconomic influences on health program planning and evaluation. Presents information and skills in needs assessment, planning, theory-based programming, and evaluation strategies appropriate for health education and health promotion programs for multi-age populations. *Prereq: HLED 180 and 210. Coreq: HLED 381.*

### **HLED 381 HEALTH PROGRAM PLANNING AND EVALUATION SERVICE LEARNING**

**2 hrs**

This service learning course will provide an opportunity for students to apply planning, implementation and evaluation skills in an educational setting within the community. This is a companion course to HLED 380, Health program Planning & Evaluation. *Prereq: HLED 180, 210, and 350. Coreq: HLED 380.*

### **HLED 390 INDEPENDENT STUDY**

**1-5 hrs**

Independent project in health education for qualified students. *Junior standing and permission of the instructor. May be repeated for credit.*

### **HLED 410 STRENGTH AND CONDITIONING I**

**3 hrs**

This course is designed to bridge the gap between clinical exercise science related course work and the practical application skills of personal training. Learn how to properly screen and evaluate clients for safe participation in an exercise program, design and implement exercise prescriptions for multiple populations and goal attainment, and apply the principles of exercise in a personal training environment. This course will prepare the student to take the ACSM Health and Fitness Instructor exam or the NSCA Certified Strength and Conditioning Specialist exam. *Pre-req: ATHT 340 Kinesiology, PHED 440 Exercise Physiology, HLED 220 Nutrition and Fitness, L SC 111 and 112 Anatomy and Physiology I and II.*

### **HLED 411 STRENGTH AND CONDITIONING II**

**3 hrs**

A continuation of HLED 410-I. This course is designed to bridge the gap between clinical exercise science related course work and the practical application skills of personal training. Learn how to properly screen and evaluate clients for safe participation in an exercise program, design and implement exercise prescriptions for multiple populations and goal attainment, and apply the principles of exercise in a personal training environment. An Advanced Personal Training Certificate through the National Council of Strength and Fitness is available upon successful completion of the course. *Pre-req: HLED 410 Strength and Conditioning I.*



**HLED 490 INTERNSHIP****10-15 hrs**

Qualified students may elect 10-15 hours of Health Education 490 upon submission of a written proposal. Work must be contained within a single term and must be approved by a department faculty member. Evidence of work on each project must be supported with a written paper and evaluation from the cooperative agency. *Students must apply one term in advance of the internship.*

**Health and Physical Education Lifestyle Series (HPES)**

Each of three courses (101, 102 and 103) is repeatable to a maximum of 2 credits; 3 courses required for graduation with 1 course from HPES 101, 1 from HPES 102 and 1 from HPES 103.

These courses meet the College requirement in health and physical education. Twenty class hours per course are spent in one of the required categories: health (HPES 101), fitness (HPES 102), and sport (HPES 103). Rhythmic and movement courses are spread throughout the three categories. The three required courses may be completed anytime during the student's freshmen, sophomore, junior, or senior year. The Health-related category (HPES 101) addresses wellness issues from an intellectual perspective. (A few classes do include some active participation). The Fitness-related category (HPES 102) introduces wellness themes as well as active participation that promotes lifelong fitness and wellness. The Sport-related category (HPES 103) approaches sports and rhythmic activities from the basics of the activity with the desire to improve skills, develop appreciation for the activity, and increase knowledge of the activity's history, rules, strategies and etiquette. Students may take up to six classes for credit. *Students participating in intercollegiate athletics may not enroll in the same HPES 103 course as their varsity sport(s). (Example.- a volleyball player may not enroll in the Volleyball/Wallyball or Power Volleyball courses).*

**HPES 101 HEALTH - repeatable to a maximum of 2 credits****1 hr****Alexander Technique**

A practical introduction to the somatic education theories and methods of F.M. Alexander, often employed by performing artists, but equally useful in sports and everyday activities. Students can reduce tension and enhance performance by refining their kinesthetic perception, and by bringing attention to common ingrained habits that interfere with the postural reflexes.

**American Heart Association Healthcare Provider CPR**

This course is primarily for Healthcare providers (nurses, doctors, athletic trainers, etc.) and course content could be utilized by individuals in a variety of healthcare settings. This course is designed to teach the skills of cardiopulmonary resuscitation (CPR) for people of all ages -adult (ages 8+), child (ages 1-8) and infant (ages 0-1). Students will be instructed in the use of an automated external defibrillator (AED), as well as how to relieve choking (foreign-body airway obstruction) on both responsive and unresponsive victims of all ages. The skills learned in this course will enable the student to recognize and respond to life threatening emergencies and to respond to them. Successful completion results in AHA Healthcare Provider Basic Life Sequence Certification.



### **Body-Mind Awareness**

This academic and experiential course will serve participants with an overview of the increasingly popular field also referred to as "Somatics." "What affects your body affects how you feel ... how you think and feel affects your body." Recent attention has been given to the Body-Mind connection through such works as "Healing and the Mind" on PBS and studies in the fields of psychology, medicine, immunology and education.

### **Health in the 21st Century**

Look at the health issues that face those entering this 21st century and how these issues will affect our world.

### **Introduction to Massage Techniques**

This participatory course focuses on utilizing massage techniques to manage daily stress. The student will learn the physical, mental and emotional benefits of massage, proper body mechanics when massaging and the application of simple, appropriate Swedish massage techniques.

### **Men's Health Issues**

This course focuses on a holistic approach to male health issues providing knowledge, changing attitudes, and teaching skills to help lead healthier, longer lives. Current research is reviewed. Open to all students.

### **Movement Fundamentals**

This course is both academic and experimental, and designed to help participants with an understanding of the mechanics of human motion for a wide range of activities including sports, dance, and martial arts, as well as general everyday activities. Emphasis is placed on movement efficiency, postural reorganization, injury prevention, and improved coordination. Utilizing several exercise systems, this movement course discusses and applies techniques for: Joint Mobility, Counter/movement-counter/stabilization, Homeolateral, Cross Lateral, Body-Half and Sequential Movement, and others.

### **Nutrition for Fitness and Health**

Active, health-conscious people need to eat well to reach fitness goals. Maximize your fitness efforts with effective nutrient balance and hydration. Learn how to boost metabolism, lose body fat, and build muscle with food, exercise, and lifestyle choices.

### **Personal Health Appraisals**

A course designed to allow student's the opportunity to assess their own personal health status using a variety of health risk appraisals. Students will also participate in physical activities and discuss recommendations necessary for making positive lifestyle changes.



### **Self Defense**

Basic self-defense knowledge and practical defensive methods for individual use in the anticipation and prevention of a perpetrator and dangerous situations. This is not a martial arts or Kung Fu class.

### **Sexual Maturity**

This course focuses on issues related to sexuality and patterns of behavior consistent with mature adults. Topics will address relationships, communication, reproductive health, cultural variations, sexual assault and sexuality education.

### **Sports Nutrition**

Optimal athletic success can only be achieved with training, practice, and eating a high performance diet. The course will review current sports nutrition guidelines.

### **Stress Management**

This course focuses on the practical and personal application of stress management tools and techniques.

### **Surviving College the Healthy Way**

Current health topics as related to college life adjustments. Recommended for freshman.

### **Tai Chi Kung**

An Oriental self-discipline often referred to as "Chinese Yoga" and "Taoist Yoga." Participants practice the Chinese art of energy balance, bringing the body-mind into a healing state of clarity and equilibrium utilizing several styles of the practice including Tai Chi Chuan. [A Chinese bodymind discipline designed for healing, awareness and use as a martial art.]

(**Tai** = Supreme/Ulimate, **Chi** = Energy, **Kung** = work/exercise **Chuan** = Fist).  
**Qigong** [Chi Kung] = Ultimate Taoist energy exercise

The many benefits of Tai Chi include: Improvement of mental concentration, self-confidence, self-awareness, natural breathing and movement, blood circulation, organ function, flexibility, strength, balance and endurance, and the development of focus, clarity and calmness. The healing benefits of Tai Chi, *as a moving form of Qigong [Chinese Yoga]* have been recognized in China for many generations and are now receiving acceptance in the western medical community.

### **Weight Management**

Classroom discussion on weight management techniques and physical exercise participation to develop a weight management lifestyle plan.

### **Women's Health Issues**

This course focuses on the origins and status of women's health issues across the life span. Topics will include health disparities, nutrition, violence against women, reproductive health, chronic diseases, alternative/complementary health practices, mental health issues, and occupational health issues. Current information and resources will be explored. Open to all students.



### **Yoga Relaxation**

Gentle stretching and guided visualization through a variety of yoga systems will provide participants with an understanding of basic yoga as a means of stress management for self practice.

**HPES 102 FITNESS - repeatable to a maximum of 2 credits**

**1 hr**

### **Aerobic Step Circuit**

Alternates segments of step aerobics and resistance training for a cardiovascular and strength workout. Students will be instructed in proper step and weight training techniques. This course is intended to improve individual fitness and well being and to promote fitness as a lifestyle in a group setting.

### **Cardio Kickboxing**

Involves the execution of punches and kicks borrowed from boxing, kickboxing, and martial arts in an aerobic format intended to improve individual fitness and wellbeing, and to promote fitness as a lifestyle.

### **Dance: Jazz**

An introduction to jazz dance. No prior experience required.

### **Dance: Novelty, Folk and Line**

Learn a variety of non-partner dances (U.S. novelty, folk, country western, disco). No experience needed-two left feet are OK.

### **Dance: Recreational Folk**

Recreational folk dances from a variety of countries. This course is especially good for education majors meeting "art in education" standards.

### **Dynamic Tone**

Matwork that employs traditional sports exercise, modern dance, Pilates Method, Bartenieff Fundamentals, Yoga and other east/west techniques. This class focuses on a full body, deep toning workout with emphasis placed on techniques, movement efficiency and injury prevention.

### **Exercise Walking**

Participation course with techniques for turning walking into a lifelong fitness activity. Individualized progression. Held indoors and outdoors.

### **Feldenkrais Method**

A practical introduction to the somatic education theories and methods of Moshe Feldenkrais - a synthesis of Western discoveries about learning and developmental movement with insights from traditional Eastern martial arts. This class will present gentle floor exercises that explore very basic movements in great detail, to develop the ability to use one's body with greater ease, comfort, pleasure and power.



### **Fitness for Life**

Classroom and activity experiences that teach students about healthy behaviors and lifestyles for throughout the lifespan. Active participation required.

### **Jazz/Aerobics**

Injury prevention and technique warm-up with postural alignment. Exercises are designed to strengthen and protect the ankles, hips, knees and spine. Aerobic warm-up and workout with focus on having fun with the music. Cool down finishes with Dance, Tai Chi and Yoga stretching.

### **Jogging**

Develop an appreciation and understanding of jogging/walking for a healthier lifestyle.

### **New Games**

Develop skills in problem solving, creative thinking and expression, leadership and teamwork while having fun playing a variety of cooperative games where athletic ability is not a requirement.

### **Personal Fitness Programs**

Develop an individualized fitness plan through Microfit assessment and improve health through physical activity.

### **Pilates**

This non-impact, anaerobic, gentle and effective exercise program is recognized worldwide. It is renowned for increasing strength and flexibility, improving alignment and coordination, and synchronizing mind and body. It will promote ease and efficiency of movement and improved posture through focused, slow, careful, and controlled exercises.

### **Rock Climbing**

The goal of this course is to teach the student the fundamentals of rock climbing. Students will learn basic climbing techniques, how to belay, how to rappel, how to establish an anchor, and important climbing safety techniques.

### **Stability Ball Conditioning with Pilates**

Involves the execution of pilates and sports inspired conditioning techniques using the stability ball to strengthen and tone core muscles as well as the upper and lower body. Exercises are also designed to improve postural alignment, flexibility, and body awareness.

### **Tang Soo Do: Martial Arts**

A Martial Arts course requiring mental and physical coordination which teaches hand and foot fighting based on the scientific use of the body in self-defense.

### **Weight Training**

Novice course with basic fundamental techniques developed in a steady personal program.



**HPES 103 SPORT - repeatable to a maximum of 2 credits**

1 hr

**Advanced Cardio Kickboxing**

This course challenges the student who is already proficient in Cardio Kickboxing technique and form. Instruction and use of heavy bags and resistance training is designed to improve both health and skill related components of fitness. This course is intended to introduce students to contact kickboxing and promote individual fitness and wellbeing. *Prereq. HPES 102 Cardio Kickboxing or Permission of Instructor.*

**Archery**

Basic beginning skills on a short shooting range.

**Badminton**

Basic fundamental skills and techniques course for singles and doubles play.

**Basketball**

Basic fundamental skills and strategies of the game. Skill development through drills and game play. Not a course for the experienced player.

**Billiards**

Exposure to the major skills and strategies associated with this recreational game. Taught at an off-campus site.

**Bowling**

Basic skills, techniques and knowledge promoting bowling as a lifelong recreational activity. Taught at an off-campus site.

**Dance: Ballroom Glide**

Provides a basic understanding of Waltz, Foxtrot and Authentic Argentine Tango. Utilizing several interrelated dance steps and rhythms with an emphasis on partnering techniques. Students will develop the basis of how to partner any social dance.

**Dance: Modern**

An introduction to modern dance. No prior experience required.

**Dance: Social Latin**

Provides a basic understanding of traditional social Latin Dance [Rumba, Salsa/Mambo, Merengue, Samba and Cumbia] Utilizes several interrelated dance steps and rhythms with an emphasis on partnering techniques. Students will develop the basis of how to partner any social dance.

**Dance: Swing (Jitterbug, Lindy-Hop)**

An introduction to the various styles of popular swing dance. Participants will learn coordination, rhythms and lead/follow techniques that will enable them to dance with a variety of partners.



### **Dance: Tap**

An introduction to tap dance. No prior experience required.

### **Dance: Waltz, Tango, Foxtrot**

Argentine Tango: To acquaint the student with basic understanding of "Smooth/Glide" dances. Utilizing several interrelated dance steps and rhythms with an emphasis on partnering techniques, students will develop the basis of how to partner any social dance.

### **Fencing**

Beginning skills for foil fencing. Includes bouting and judging experience.

### **Golf**

*Beginning:* Introduction to the basic skills, rules and knowledge of the game for an appreciation of this lifelong sport.

*Intermediate:* A course designed for students who have previously played golf. Focus is on rules, etiquette and mechanics. Thirty six holes of play required by completion of the course.

### **Handball**

Beginning basic skills for singles and doubles play.

### **Horseback Riding**

Safety and good horsemanship are stressed throughout all courses. During the 10 week academic quarter students receive a weekly class of one hour in dressage, hunt seat, or eventing. Students will develop the skills necessary to compete in interscholastic/intercollegiate and/or open horse shows. Beginning riders will learn basic introductory skills in riding and horse care. Students must supply their own hard-soled, over-the-ankle boots. ASTM / SEI helmets and all other riding equipment are provided. New students must ride for the instructor before or during the first week of the quarter for placement into the appropriate level. All students must complete and pass the physical fitness test before they may ride. *All riding lessons carry an additional fee which is published in the Schedule of Classes available at the Registrar's Office.*

### **The Informed Spectator**

Sitting in the stands is more enjoyable when the fundamentals of the sport are understood. For the sport non-enthusiast. Mostly classroom with some activities.

### **Racquetball**

Introductory course in the basic skills and techniques, rules and strategies for recreational and competitive play.

### **Scuba**

An introductory scuba course which will prepare students to take the exam to become I.D.E.A. open water certified divers. Includes classroom work and off campus meetings.



### **Soccer**

A “feet on” introduction to the techniques, tactics and rules of the sport.

### **Softball**

Basic individual and team skills and strategies for recreational play.

### **Sports in America**

A sociological look at sports in the American culture. Topics covered include violence in sport, sports media, role models/celebrities; sport inequity, and current issues in sport.

### **Tennis**

Beginning: Basic fundamental skills necessary to compete recreationally in singles and doubles. Not for the experienced players.

Intermediate: Players must possess basic skills and knowledge of tennis. Will improve ability through drills and game play so as to place one in a competitive situation with others of like talent.

### **Ultimate Frisbee**

Provides information that will introduce individuals to Ultimate Frisbee and other disc games and will improve their general playing skills and ability; to learn the rules, techniques and strategies that are necessary for efficient, competitive and recreational ultimate participation. Physical conditioning, specific skills, team play, competitive situations and psychological attitudes are also considered.

### **Volleyball: Power**

Advanced techniques and skills of volleyball for competitive participation.

### **Volleyball: Recreational**

Learn to play and enjoy volleyball in a less stressful setting than power volleyball. Beginners are encouraged to join this class.

### **Volleyball Officiating**

This course focuses on the techniques and rules application and interpretation for the sport of volleyball. Students will be prepared to be certified as linespersons, scorekeepers, libero trackers, and/or referees upon completion of this class.

## **Physical Education Courses (PHED)**

### **PHED 130 MOTOR DEVELOPMENT**

3 hrs

This course involves the study of motor maturation and development variances affecting motor efficiency in individuals. The focus is on the application of lifespan foundational growth and motor development knowledge needed by the Physical Education professional. *Prereq:* PHED 170.



**PHED 140 MOTOR LEARNING****3 hrs**

Study of the principles of motor learning and performance and the acquisition of practical knowledge about motor skills and performance; the factors which affect skill acquisition, motor performance, and the teaching-learning process. *Prereq: PHED 130 or permission of instructor.*

**PHED 150 THEORY AND PRACTICE OF RHYTHMIC ACTIVITY****5 hrs (alt. yrs.)**

A concentrated study of basic rhythmic activities and various dance forms fundamental to and appropriate for the PreK-12 physical education program. This course should be taken immediately after PHED 130 is completed. *Prereq: PHED 130.*

**PHED 170 PROFESSIONAL PERSPECTIVES IN PHYSICAL EDUCATION****3 hrs**

This course is designed to acquaint students with basic information, history, philosophy, ethics, professional organizations, standards, and competencies unique to entry level physical educators in school and community settings. The Otterbein College Education Program as well as the State of Ohio licensure and the NASPE/NCATE standards will be introduced in this course.

**PHED 211 EARLY CHILDHOOD PHYSICAL EDUCATION FOR CLASSROOM TEACHERS****3 hrs**

This course focuses on physical education for the preschool-primary age child (ages 3-8) from the perspective of the classroom teacher. Emphasis will be on acquiring a basic understanding of and screening strategies for normal motor development; developmentally appropriate motor programming for all children; and teaching strategies for effective learner-task-environment (materials, equipment, etc.) interrelationships which enable young learners to develop the fundamental motor and rhythmic skills that form the basis of all games, dance, and sport activities. Attention will also be given to the importance of integrating movement across the curriculum for increasing learner ownership of content concepts and skills. *Prereq: EDUC 160 and INST 130, or permission of instructor.*

**PHED 212 EARLY CHILDHOOD PHYSICAL EDUCATION****3 hrs**

This course focuses on physical education for the preK-5 age child from the perspective of the physical education specialist. Emphasis will be on acquiring a basic understanding of and screening strategies for normal motor development; developmentally appropriate motor programming for all children; and teaching strategies for effective learner-task-environment (materials, equipment, etc.) interrelationships which enable young learners to develop the fundamental motor and rhythmic skills that form the basis of all games, dance, and sport activities. Attention will also be given to the importance of integrating movement across the curriculum for increasing learner ownership of content concepts and skills. *Prereq: EDUC 160, INST 130 and PHED 130/140/150; or permission of instructor.*



**PHED 220 EARLY CHILDHOOD PHYSICAL EDUCATION FIELD EXPERIENCE**

2 hrs

Laboratory experiences in early childhood physical education for physical education majors in teacher education. *Take concurrently with PHED 212.*

**PHED 290 TECHNIQUES AND STRATEGIES OF COACHING**

2 hrs

A study of the philosophies, ethics, methods, strategies and mechanics of coaching. *Prereq: open to Physical Education majors/minors and Coaching minors only, or permission of instructor.*

**PHED 290.10 BASEBALL**

2 hrs

**PHED 290.20 BASKETBALL**

2 hrs

**PHED 290.30 FOOTBALL**

2 hrs

**PHED 290.40 POWER VOLLEYBALL**

2 hrs

**PHED 290.50 SOCCER**

2 hrs

**PHED 290.60 TRACK AND FIELD**

2 hrs

**PHED 290.70 SOFTBALL**

2 hrs

**PHED 310 TECHNIQUES OF TEAM SPORTS**

4 hrs (alt. yrs.)

A study of principles and techniques of team sports. A presentation of learning experiences enabling students to gain knowledge of the rules and etiquette, basic skills, and strategies for team sports. *Prereq: junior standing or permission of instructor.*

**PHED 320 TECHNIQUES OF INDIVIDUAL AND DUAL SPORTS**

4 hrs

A study of the principles and techniques of individual and dual sports. A presentation of learning experiences enabling students to gain knowledge of the rules and etiquette, basic skills and strategies for individual and dual sports. *Prereq: junior standing or permission of instructor.*

**PHED 330 DEVELOPMENTAL TEACHING METHODS IN PHYSICAL EDUCATION FOR GRADES 6-12**

3 hrs

A study of physical education teaching methods as they pertain to the 6th-12th grade levels. Involves teaching methods and materials in physical education and techniques for implementing classroom strategies. *Prereq: PHED 170 or permission of instructor*

**PHED 360 ADAPTED PHYSICAL EDUCATION**

3 hrs

A study of physical education programming adjustments to accommodate children identified with special needs. It includes the legal basis and processes for identification, placement, support and programming strategies for infants to young adults as well as lifetime leisure opportunities. *Open to juniors and seniors only; Prereq: PHED 212/220 and one course from PHED 310/320/330; or permission of instructor.*

**PHED 370 ADAPTED PHYSICAL EDUCATION FIELD EXPERIENCE**

2 hrs

Laboratory experience in adapted physical education for health and physical education majors in teacher education. *Take concurrently with PHED 360.*



**PHED 380 ORGANIZATION AND MANAGEMENT: HEALTH, PHYSICAL EDUCATION, SPORT MANAGEMENT OR ATHLETIC TRAINING**

**5 hrs**

The nature, culture, and mechanisms of organizations and management of educational, athletic, sport and leisure, and athletic training programs. *Open to junior and senior departmental majors or permission of instructor.*

**PHED 381 ORGANIZATION AND MANAGEMENT LAB**

**1 hr**

This course is designed to supplement the PHED 380 course – Organization and Management: Athletic Training. As a laboratory course, the student will learn the necessary clinical skills associated with the didactic learning that is being taught in the classroom portion of the associated athletic training class. *Coreq: PHED 380*

**PHED 410 MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION, SPORT AND WELLNESS**

**4 hrs**

This course will focus on the basic concepts of testing, measuring, and evaluating various forms of sport, physical activity, and wellness; evaluating and interpreting results of data from tests and performances, and making fundamental and valid decisions. *Open to junior and senior departmental majors or permission of instructor.*

**PHED 440 EXERCISE PHYSIOLOGY**

**5 hrs**

A study of the effect of exercise on the physiology of metabolism, circulation, respiration and muscle function. Athletic performance will be examined with factors such as environment, body composition, nutrition, ergogenic aids and training. *Prereq: L SC 111, 112 or permission of instructor.*

**PHED 480 PRINCIPLES AND PRACTICES OF PHYSICAL EDUCATION**

**4 hrs**

A reflective study of the underlying principles and the nature of physical education as it relates to the issues and trends of contemporary physical education and sport in our culture. Case studies will be used. Course also includes discussions surrounding advocacy for physical education as well as researching and writing a potential manuscript. *Open to junior and senior departmental majors or permission of instructor.*

**Sport Management Courses (SMGT)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

**SMGT 180 PROFESSIONAL PERSPECTIVES IN SPORT MANAGEMENT**

**5 hrs**

An introductory course where the students are oriented to the academic and professional field of sport management and given a realistic glimpse into the challenges and opportunities that exist within the world of sport and sport-related organizations.



**SMGT 240 SPORT LAW AND GOVERNANCE**

**5 hrs**

A study of the fundamental principles that directly affect sport, physical activities and wellness programs; and the individuals who are involved in creating and delivering such programs. Case studies based on lower court decisions are identified. This course will also take an in-depth look at the various agencies that govern sport.

**SMGT 250 SOCIOLOGY AND PSYCHOLOGY OF SPORT**

**4 hrs**

A course designed to examine the interplay and impact of various sociological groups' behaviors and individual psychological profiles upon Domestic and International sport. *Prereq: SMGT 180.*

**SMGT 355 FINANCE AND ECONOMICS OF SPORT**

**5 hrs**

The financial concepts and theories and their application in the professional, intercollegiate, recreational and commercial sport industries. Topics include revenue and expenses of professional, intercollegiate, and private sport industries; issues affecting these revenues and expenses; merchandising and fund-raising at the intercollegiate level; ownership in sport, and public and private funding for non-profit sports programs; economic theory in sport, and stadium and economic impact. *Prereq: ACCT 200, ECON 210.*

**SMGT 385 SPORT MARKETING**

**5 hrs**

A course that focuses on the application of marketing principles and practices to the sport industry. Theoretical and practical applications of marketing professional and collegiate sports are examined. Consideration is given to marketing sport, both as a spectator and participatory activity. *Prereq: SMGT 180, ECON 210.*

**SMGT 390 INDEPENDENT STUDY**

**5 hrs**

This course affords sport management and health promotion and fitness management students the opportunity to engage in non-classroom learning or career exploration under the supervision of a qualified individual. Students are expected to analyze critically and evaluate their practical experiences in light of their coursework and career plans. *Sophomore standing, minimum GPA of 2.7 and permission of instructor required.*

**SMGT 392 EVENT PLANNING**

**4 hrs**

This course introduces students to special event planning, processes, and management practices. Students are provided with actual, hands-on experience managing a sport, fitness, or recreational-related event. Emphasis is placed on the purposes, types, organization, administration, management, and evaluation of an event. These relate to sport, fitness and recreation domains, as well as facility and community environments. *Prereq: SMGT 180, PHED 380.20.*

**SMGT 393 SPORT FACILITY MANAGEMENT AND DESIGN**

**4 hrs**

The purpose of this course is to provide students with the knowledge, understanding, and competence required for the management of a sport, fitness, recreation, or public assembly facility (including auditoriums, convention centers, high school and college arenas and stadiums; bowling alleys, health clubs, sportsplexes, parks, race

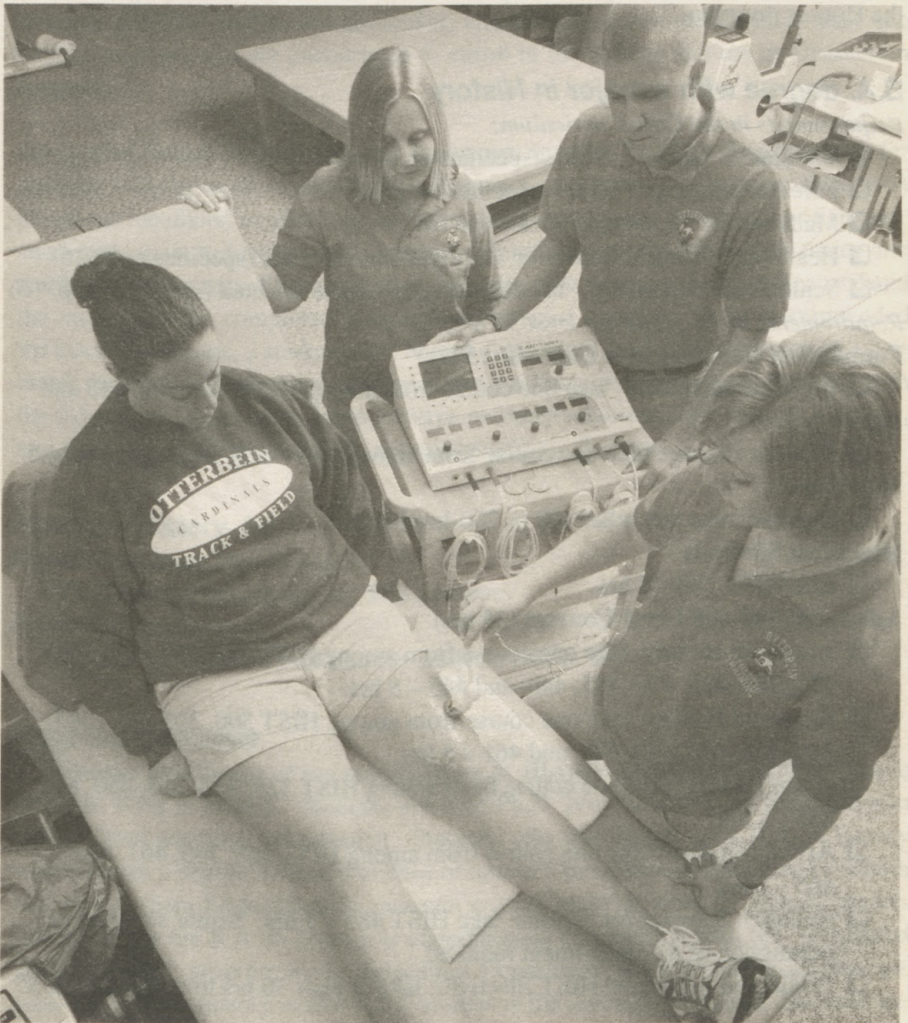


tracks, speedways, natatoriums, etc.). The course focuses on elements of planning, designing, equipping, staffing, scheduling, financing, and managing a facility, while examining functions related to maintenance, security, operations, and evaluation. *Prereq: SMGT 180, PHED 380.20.*

### SMGT 490 INTERNSHIP

15 hrs

This course provides the sport management and health promotion and fitness management students with 450 supervised hours of practical experience in an area of their career interest. Students must elect 15 credit hours, submit a written proposal, and seek approval by a Department faculty member. Internships are done within 1-3 academic quarters and are available in recreation, athletics, corporate fitness centers, athletic clubs, professional sports, country clubs, etc. This course is taken concurrently with SYE 490. *Senior standing required. Students must obtain a SMGT 490 Sport Management Internship Guidelines Manual and apply one term in advance of the internship.* *Prereq: Open to majors only who have minimum GPA of 2.7.*





# History and Political Science

*Halbert (chairperson), Cooper, Fatherly, MacLean, McCormick, Robinson, Rose, Washington, Yntema.*

## **Mission and Programs**

The Department of History and Political Science, with nine full-time faculty, defines its mission as supporting both its majors and the Integrative Studies Program in order to teach critical thinking and writing skills, to help students develop an appreciation of our diverse world, and to prepare students for careers and professions.

The department offers majors and minors in History and Political Science, houses the interdisciplinary major in International Studies, and the Legal Studies minor. Faculty from the department also teach INST 150 Issues in the Western Experience, INST 160 Geography, and sections of other Integrative Studies courses including INST 382 African Cultures & Colonialism. The department also contributes to the Education Department, Women's Studies, Black Studies, Environmental Studies, and the Honors program.

## **B.A. degree with a major in History**

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (at least 55 hrs):*

#### **Foundation 100-200 Level Courses (15 hrs)**

- ☐ Pre-modern History: take one course from among HIST 110, 200, 245 and 265 - 5 hrs.
- ☐ Modern History: take one course from among HIST 120, 210, 220, 246 and 261 - 5hrs.
- ☐ Elective: take any other 100 or 200-level course - 5 hrs.

#### **Historical Methods**

- ☐ take HIST 280 - 5 hrs

#### **Advanced 300-400 Level Courses (35 hrs)**

- ☐ American History: take one course from among HIST 345, 351, 355, 361, 371, 381, 425, 430, 435, 440, and 445 - 5 hrs.
- ☐ European History: take one course from among HIST 300, 305, 310, 315, 340, 405, 410, 420, 421, and 461 - 5 hrs.
- ☐ Asian History: take one course from among HIST 325, 330, 335, 450, and 455 - 5 hrs.
- ☐ African History: take one course from among HIST 363, 365, 461, and 465 - 5 hrs.
- ☐ Research Seminar for Seniors: take HIST 480 - 5 hrs. Senior standing or permission of the department required.
- ☐ Additional Advanced HIST Electives: take at least 10 hrs to reach at least 35



hrs at the 300/400 level.

**Grand Total HIST Hrs:** minimum 55 hrs required

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exception/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed

It is highly recommended that history majors also take 10 quarter hours at the 200 level or above from a choice of disciplines related to history, including political science/international relations, economics, sociology, philosophy, religion, art history, and psychology. Students should consult their advisers to determine the best selection of electives in history and related disciplines. Majors are required to take History 280, History Seminar, in their freshman or sophomore year. Students interested in pursuing graduate studies are advised to attain reading proficiency in at least one foreign language and are encouraged to enroll in the college Honors or Distinction programs.

**Integrated Social Studies Teacher Licensure (grades 7 - 12):** Requirements for students seeking social studies teacher licensure are listed in the *Teacher Education Programs* handbook available in the Education Department. Social studies licensure candidates must follow the history major. Requirements for the history major and teacher licensure may differ somewhat, but both must be met to become licensed and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

### **Minor in History**

*Required (at least 25 total hours):*

- ☐ All hours from among any HIST courses

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

### **Program Outcome**

**History:** Fulfillment of the requirements in **History** qualifies students to pursue graduate work in history. Students entering Ph.D. programs prepare for careers in college-level teaching and research. Students also may follow up a B.A. in history with a master's degree in library science or master's program in public history, which will qualify them for positions in museum studies, archival work, or historic preservation. When the B.A. in History is undertaken in conjunction with the "Integrated Social Studies" program in the Education Department at Otterbein, graduates are qualified to teach history and/or social studies in the secondary schools. Because the



discipline of history spans both the humanities and social sciences, students acquire a broad foundation of knowledge, which, when combined with the analytical and communication skills gained in pursuing a degree in history, are applicable to many career fields. As a result, graduates have found employment in such areas as law, journalism, government service, administration, and business.

### **B.A. degree with a major in Political Science**

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

#### *Requirements in the major (at least 55 hrs of P SC) :*

A. ☐ Take all of the following: P SC 100, 115, 130 and 230 – 20 hrs

B. ☐ Take two from among P SC 215, 222, 225 and 227 – 10 hrs

Remaining 25 hrs from a primary (15 hrs) and secondary (10 hrs) track chosen from the following:

#### **American Law and Politics Track**

- |  |   |
|--|---|
| <input type="checkbox"/> P SC 310 – 5 hrs      | <input type="checkbox"/> P SC 370 – 5 hrs |
| <input type="checkbox"/> P SC 325 – 5 hrs      | <input type="checkbox"/> P SC 375 – 5 hrs |
| <input type="checkbox"/> P SC 335 – 5 hrs      | <input type="checkbox"/> P SC 420 – 5 hrs |
| <input type="checkbox"/> P SC 351 – 3 to 5 hrs |   |

#### **Global Politics Track**

- |  |   |
|--|---|
| <input type="checkbox"/> P SC 352 – 3 to 5 hrs | <input type="checkbox"/> P SC 482 – 5 hrs |
| <input type="checkbox"/> P SC 355 – 5 hrs      | <input type="checkbox"/> P SC 485 – 5 hrs |
| <input type="checkbox"/> P SC 387 – 5 hrs      | <input type="checkbox"/> P SC 488 – 5 hrs |
| <input type="checkbox"/> P SC 410 – 5 hrs      | <input type="checkbox"/> P SC 492 – 5 hrs |

#### **Political Theory Track**

- |  |   |
|--|---|
| <input type="checkbox"/> P SC 345 – 5 hrs      | <input type="checkbox"/> P SC 430 – 5 hrs |
| <input type="checkbox"/> P SC 346 – 5 hrs      | <input type="checkbox"/> P SC 440 – 5 hrs |
| <input type="checkbox"/> P SC 353 – 3 to 5 hrs |   |

C. ☐ Grand Total P SC hours: at least 55 hrs required

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

#### *Required total hours for the degree:*

- ☐ At least 180 (also see exception/additional comments on p. 24)

#### *Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

### **Minor in Political Science**

#### *Required (at least 30 total hrs):*

- ☐ P SC 100 - 5 hrs
- ☐ P SC 115 - 5 hrs
- ☐ At least 10 hours at P SC courses at 200 level



- ☐ At least 10 hours of P SC courses at 300/400 level
- ☐ Any remaining hours from among other P SC courses.

**Residence Requirement:**

- ☐ Must be fulfilled by all transfer students (see p. 24).

**Program Outcome**

**Political Science:** Fulfillment of the requirements in **Political Science** qualifies students to pursue professional employment in government service and public administration at the federal, state, and local levels. Graduates also are qualified for employment in non-governmental organizations that serve social and/or legal services. Students are prepared for graduate work in political science, international relations and the foreign service, and public administration. Graduates also may pursue law school. When undertaken in conjunction with the "Integrated Social Studies" program in the Education Department, graduates are qualified to teach civics-politics and/or social studies in the secondary schools. The liberal arts foundation of a political science degree offers skills that can be valuable in many career fields, including law, journalism, business administration, and research.

**B.A. degree with a major in International Studies***Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs (specifics on p. 15)
- ☐ Mathematics - 5 hrs (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (60 hrs or equivalent):*

- ☐ one Foreign Language course at the 210 level or higher - 5 hrs
- ☐ one European History course from among HIST 200, 210 and 220 - 5 hrs
- ☐ two History courses from among HIST 245, 246, 265, 300, 325, 330, 335, 340, 363, 365, 410, 420, 450, 455, 461 and 465 - 10 hrs
- ☐ one International Politics course: P SC 130 - 5 hrs
- ☐ two Political Science courses from among P SC 227, 355, 410, 482, 485, and 488 - 10 hrs
- ☐ one Economics course: ECON 220 - 5 hrs
- ☐ two International Business courses from among BADM 370, 375, 385, 470, and ECON 350 and 440 - 10 hrs
- ☐ one Sociology course from among SOCL 270, 300, 340, and 350 - 5 hrs
- ☐ one Humanities course from among ART 250/260, ENGL 232/333, FREN 240, RELG 270/290/340/350/360 and SPAN 230/240 - 5 hrs  
(if select FREN or SPAN, cannot double-count and use to also fulfill the "FREN 210 or SPAN 210 or higher" requirement previously listed)
- Students are encouraged to complete INST 160 and/or INST 180, as well as to engage in study abroad. Otterbein College administers a study-abroad program with Roehampton University in England, and other opportunities are available through the International Programs office of the College. Students participating in Study Abroad may earn up to 15 credit hours at Otterbein College. Students



interested in pursuing graduate studies in international studies are encouraged to complete ECON 210, Microeconomics.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exception/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **Program Outcome**

**International Studies:** Fulfillment of the requirements in **International Studies** qualifies students to pursue graduate work in political science, international relations, and programs to train foreign service officers. Graduates also are qualified for employment in non-government organizations that serve international publics. The competency in foreign language required by the International Studies major enhances employment opportunities for students in many career fields, including international business, journalism, and education.

## **History Courses (HIST)**

Information about experimental courses, when offered, can be found on the Department website and will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### **HIST 110 THE AMERICAN EXPERIENCE FROM THE COLONIAL ERA TO THE CIVIL WAR AND RECONSTRUCTION**

5 hrs

This course surveys the history of the United States from the earliest days of contact and colonization through the era of the Civil War. Considering America in this formative period, the course investigates the ways in which the process of building an independent and unified America was neither steady nor assured. In exploring major social, political, and economic developments, the course considers sources of both unity and fragmentation among Americans including people's competing visions of the nation, how and why those visions changed over time, and ultimately how those very tensions helped to define an American nation.

### **HIST 120 THE AMERICAN EXPERIENCE FROM THE GILDED AGE TO THE PRESENT**

5 hrs

Beginning with the industrial revolution of the last half of the 19th century, this course traces the impact of urbanization, immigration, two world wars, depression, and the Cold War on America's institutions, its people, and its ideas of freedom, opportunity, democracy, and diversity.



**HIST 200 RELIGION, REVOLUTION, AND THE STATE:**

**EUROPE 1500-1815**

5 hrs

An exploration of the Reformation, European overseas expansion, the origins of the centralized state and capitalist economy, the Scientific Revolution and Enlightenment, the political and social revolutions of the 17th and 18th centuries, and the causes of the Industrial Revolution.

**HIST 210 NATIONALISM AND INTERNATIONALISM:**

**EUROPE 1815-1919**

5 hrs

A study of European diplomacy after the French Revolution, the rise of conservative, liberal, and socialist movements, the spread of nationalism and industrialization, the new imperialism, the origins of contemporary warfare and breakdown of the European state system in the First World War, and the causes of the Russian Revolution.

**HIST 220 CONFLICT AND CRISIS: EUROPE 1919-present**

5 hrs

Traces the European political and social crisis between the wars, the formation of the Soviet state, the rise of fascism in Europe, the emergence of antifascist resistance, the causes and nature of the Second World War, the evolution of the Cold War, and the problem of European unity.

**HIST 245 SURVEY OF PREMODERN ASIA**

5 hrs

This course is a survey of the history of East Asia (China, Japan, Korea) from the sixth century B.C. through the end of the eighteenth century. Students will learn the national histories of each of these countries, as well as develop a comprehensive understanding of the broad and lasting cultural heritage of East Asian civilizations. As a lower-division survey this course is designed to provide a broad and complete general understanding of Asian history in itself, as well to serving as a foundation for subsequent upper-division study in the field.

**HIST 246 SURVEY OF MODERN ASIA**

5 hrs

This course is a survey of the history of East Asia (China, Japan, Korea) from 1800-present day. Students will learn the national histories of each of these countries, as well as develop a comprehensive understanding of their interrelationships as a regional block. As a lower-division survey this course is designed to provide a broad and complete general understanding of Asian history in itself, as well to serving as a foundation for subsequent upper-division study in the field.

**HIST 261 INTRODUCTION TO AFRICAN AMERICAN HISTORY**

5 hrs

This course is an introduction to African American history. Students will study the political and social history of the African-American community, from its roots in Africa, through the period of slavery, to the struggle for civil rights in the present day. We will discuss issues of race, class, gender and location as we sample the rich diversity of African American history and culture, using film, literature and the arts.

**HIST 265 INTRODUCTION TO AFRICAN HISTORY**

5 hrs

Students will sample the history of human societies across the vast African continent. Topics that we will explore include: early hominids, Ancient Egypt, Meroe, and



Axum, the trans-Saharan trade, the Bantu Migrations, the arrival of Islam, the medieval empires, European incursions and colonization, and the era of independence. Along the way we will listen to some music, view images of artwork, and touch on some religious and social values.

**HIST 280 HISTORY SEMINAR**

**5 hrs**

A seminar required for majors in history, designed to acquaint students with basic procedures, materials and research tools used by historians. The course will also review the development of history as a discipline.

**HIST 300 MODERN BRITISH HISTORY**

**5 hrs (alt. yrs.)**

A study of British history from the 18th century to the present. The course examines the development of modern parliamentary government, changing class relations in industrial society, cultural change from the Victorian era to the present, and the rise and fall of the British Empire. The course is especially recommended to pre-law students and to majors in English.

**HIST 305 ANCIENT GREECE AND ROME**

**5 hrs (alt. yrs.)**

An exploration of ancient politics, society, and culture from the dawn of classical Greece to the rise of the Roman Empire. The course examines the archaic origins of ancient Mediterranean culture, the creation of the Greek city-state, the emergence of Athenian democracy and Roman republicanism, the transformation of Rome into an imperial, cosmopolitan state, and the development of classicism in art, drama, and philosophy.

**HIST 310 MEDIEVAL HISTORY**

**5 hrs**

This course examines the formation of Latin Christendom and the Western tradition between the fourth and fifteenth centuries. The course explores the transition between late antiquity and the early medieval era; the development of political, religious and social institutions during the early Middle Ages (500-900); and the flowering of Medieval culture during the High Middle Ages (1100-1350). Particular attention is focused on the intersection between classical, Christian and Germanic traditions, the geographic, social and economic development in Europe, the relation between the Church and political institutions, and the flowering of chivalry and of the arts.

**HIST 315 RENAISSANCE AND REFORMATION**

**5 hrs**

An exploration of the origins of the Renaissance and Reformation in Europe and the impact of these movements on European life and subsequent Western Culture. The course investigates the origins and aims of the Italian Renaissance and the impact of this movement on European culture, society and politics; the social and cultural background to the Reformation and the linkages between Renaissance humanism and leading reformers; and the relation of the Reformation and the Catholic Reformation to European politics and society.

**HIST 325 DISCOVERING HISTORY IN KOREA**

**5 hrs**

This course will explore the emergence of Korea as a modern state from the collapse and overthrow of their traditional monarchy at the turn of the 20<sup>th</sup> century up through



the present day. Our study will include such topics as – the conflict and combination of traditional Korean values and practices with Japanese colonial policy during the colonial occupation of 1905-1945; Korea's search for a distinctive and modern national identity in the shadows of neighboring China and Japan; the origins and nature of the Korean civil war; the role of Korea in contemporary east Asian and international politics; current events concerning the continued division of the Korean peninsula and the threat of nuclear war.

**HIST 330 MODERN CHINA****5 hrs (alt. yrs.)**

A history of China from the Manchu Qing dynasty (1640s) to the present. Emphasis on the events leading up to the Chinese Revolution, as well as the philosophy and policies of Mao Zedong following the Revolution. The course will examine the role China plays in the globalization of the world economy, as well as the efforts by the Chinese Communist Party to maintain domestic control in the post-Mao era.

**HIST 335 THE RISE OF MODERN JAPAN****5 hrs**

This course will explore the emergence of Japan as a modern state from the collapse of the feudal government in the mid-19<sup>th</sup> century up until the present day. Our study will include such topics as – the social, political, and economic foundations of Japan's constitutional monarchy; Japan's responses to, and practice of, imperialism and colonialism in East Asia; the relationships between the development of mass society/culture and authoritarian government in the 1930s and 1940s; American post-war occupation.

**HIST 340 RUSSIA AND THE SOVIET UNION FROM 1917 TO THE PRESENT****5 hrs**

Political, economic, social, cultural, and diplomatic history of Russia in the 20<sup>th</sup> century, with special emphasis on the roles of Lenin, Stalin, Khrushchev, Brezhnev, Gorbachev, Yeltsin and Putin.

**HIST 345 OHIO HISTORY****5 hrs**

A survey of the economic, cultural, political and social history of Ohio.

**HIST 351 AMERICAN WOMEN'S HISTORY****5 hrs**

This course provides an overview of the history of women in America from the colonial era through the present. It explores the lived experiences of a variety of women as well as changing definitions of gender roles. Particular attention is paid to both women's common experiences and the critical factors like racial and class statuses that made their lives quite different.

**HIST 355 AFRICAN AMERICAN HISTORY****5 hrs (alt.yrs.)**

This course examines the evolution of the writing of African American history by adding geography and periodization to issues of race, class and gender. The course begins with texts written in the early 19<sup>th</sup> century by Afro-Americans and concludes with twenty-first century scholarly works that explore five hundred years of African American history along the American frontiers with Spain/Mexico.



**HIST 361 EARLY AMERICAN HISTORY**

**5 hrs (alt. yrs.)**

This course explores the dominant themes and events of American history between 1492 and 1763. Using the lens of comparative colonization, it examines the complexities of cultural contact that occurred between Native Americans, Europeans, and Africans in the early days of North American colonization, the kinds of communities that emerged from these contacts, and the major challenges facing these colonial communities as they matured over the eighteenth century. Throughout, the course focuses attention on the tensions that underlay the colonization of America related to key issues such as land, race relations, economic systems, class structures, and political ideologies.

**HIST 363 AFRICAN WOMEN AND THE FAMILY**

**5 hrs (alt. yrs.)**

This course examines the evolving role of women and the family in African history and in contemporary society since 1800. This course focuses on social history and will compare women's experience by race, class, religion and region. Students will study women as empowered agents navigating the major political changes over these two centuries using a variety of primary and secondary sources, including literature, film, and political position papers.

**HIST 365 AFRICAN BUSINESS AND LABOR HISTORY**

**5 hrs (alt. yrs.)**

This course explores several aspects of African commercial and labor history from 1800 to the present such as agriculture, market place operations, trans-Saharan trade, Islamic commerce, plantation systems, slavery, socialist economies, multinational corporations and international development agencies. The course concludes with a discussion of the economic development agenda of the African Union.

**HIST 371 CIVIL WAR AND RECONSTRUCTION**

**5 hrs (alt. yrs.)**

This course explores antebellum America, the expansion of slavery in the South, the deepening social and ideological divisions between the North and the South, the Civil War, and the reintegration of the union. Special attention will be paid to the cultural values that divided the nation, the experiences of African-Americans, and the meaning of this event in America's past.

**HIST 381 REPUBLICANS v. DEMOCRATS : A HISTORY**

**5 hrs (alt. yrs.)**

This course will investigate the impact that two world wars, the 1920s consumer revolution, the depression, the McCarthy Era and Cold War, the 1960s social revolution, and the post Cold War era had in creating the Republican and Democratic parties as we know them today. Special attention will be paid to the historic roots of the present-day divisions within each party and the influence of third parties.

**HIST 390 INDEPENDENT STUDY**

**1-5 hrs**

Independent study. *Prereq:* Permission of instructor.

**HIST 405 EUROPEAN INTELLECTUAL HISTORY**

**5 hrs (alt. yrs.)**

This course examines twentieth-century European thought against the background of modern historical crises and change. Topics include the reactions of European thinkers and writers to expanding technological and bureaucratic culture, their responses to revolutionary and antirevolutionary movements, their analyses of the spread of war,



and their concepts of human freedom and responsibility. Through sources in social and psychological theory, literature, drama, and film, the course explores contemporary intellectual movements, including cultural modernism, psychoanalysis, critical Marxism, and existentialism.

**HIST 410 THE HOLOCAUST AND THE TWENTIETH CENTURY**

**5 hrs (alt. yrs.)**

A study of the history of the Holocaust, and of the diverse cultural means of communicating that history and conveying its implications. The course examines conditions in Germany and Europe after the First World War, the life of European Jewish communities in the early 20th century, the rise of Nazism in Germany and the nature of European collaboration and resistance, and the phenomena of totalitarianism and anti-Semitism. It studies the place of the Holocaust in 20th-century consciousness through memoirs, literature, film, visual art, and memorials.

**HIST 420 ECONOMIC HISTORY**

**5 hrs**

This course focuses on the development of pre-industrial European economies, the Industrial Revolution in Britain, the processes of Western industrialization, and social and political changes. Attention is focused on the changing role and place of households, businesses, and governments in the economy. Economic decision-making, both at the micro and macro-levels, is analyzed in its historical context.

**HIST 421 CAPITALISM AND THE GLOBAL ECONOMY**

**5 hrs**

Today it is taken for granted that we live in a global economy: jobs and the standard of living in American are directly affected by economic developments elsewhere in the world and the benefits of global trade are disputed. Starting with the major regional economic systems in the world during the 13<sup>th</sup> century, this course explores how the modern global economy was created. Viewed from a world perspective, topics covered include how pre-industrial economies develop, how and why global trade networks grew, and understanding the process and impact of industrialization. The course also explores the divergence of Western and Asian economies in the 18<sup>th</sup> and 19<sup>th</sup> centuries and the impact of the West on other economies and cultures.

**HIST 425 TECHNOLOGY AND THE AMERICAN ECONOMY**

**5 hrs**

Technological inventiveness has long been viewed as central to America's prosperity and culture. The course examines the role of technology in the growth and transformation of the American economy from the colonial era through the post-modern era. The course explores the development of the pre-industrial colonial economy; the technologies that transformed agriculture, industry, and trade in the 19<sup>th</sup> century; and the growth of large-scale businesses and technological systems in the late 19<sup>th</sup> and 20<sup>th</sup> century. Questions addressed in the course include: what brings about technological change, who gains and loses from technological change, and how did technological change impact culture and society?

**HIST 430 THE ATLANTIC WORLD**

**5 hrs (alt. yrs.)**

This course examines the interconnections and interdependence that developed between the peoples of Europe, Africa, and the Americas between 1450 and 1800.



Topics will include the development of trans-Atlantic slavery, the emergence of an integrated economy, the transmission of cultural ideas and artifacts, and comparative systems of colonization.

### **HIST 435 THE ERA OF THE AMERICAN REVOLUTION**

**5 hrs (alt. yrs.)**

In a few short decades, eighteenth-century American colonists staged the modern world's first successful colonial rebellion and created their own new political, economic, and social structures. This course examines the origins of their rebellion, the war that they waged to secure their independence, the new nation that they created, and the global ramifications of their actions.

### **HIST 440 AMERICAN DIPLOMACY AND THE COLD WAR**

**5 hrs (alt. yrs.)**

This course explores the origins and evolution of American policy in the Cold War within the broader context of America's isolationist, imperialist, and internationalist traditions. Emphasis is given to the role of domestic as well as external factors in shaping American policy, including the contributions of such figures as Woodrow Wilson, Franklin Roosevelt, Richard Nixon, Henry Kissinger, and Ronald Reagan.

### **HIST 445 SOCIAL PROTEST IN 20TH CENTURY AMERICA**

**5 hrs (alt. yrs.)**

This course explores the nature of social protest in twentieth-century America through a study of the origins and evolution of several grassroots social protest movements. Investigation focuses on a wide range of grassroots organizations that span the social and political spectrum, including, among others, the Anti-Saloon League, the Student Non-Violent Coordinating Committee (SNCC), the National Organization of Women, and the Ku Klux Klan. Emphasis is placed on the diversity of purpose and membership of such organizations, the role of prejudice, the causes for success or failure, and the long-term impact on American society.

### **HIST 450 VIETNAM IN THE TWENTIETH CENTURY**

**5 hrs (alt. yrs.)**

A history of Vietnam from the period of French colonialism to the present. Topics include the French War, the American War, and the development of Vietnamese society following national independence.

### **HIST 455 DEMOCRACY IN ASIA**

**5 hrs**

This course is an in-depth examination of the theory and practice of democracy as a political system in Asia. The class will address such questions as – definitions of “democratic government”; the correlations between democracy and social/economic equity; between democracy and imperialism; what foundations exist in East Asia for the practice of modern democratic government; and is there any merit to the concept of an “Asian model” for democratic government.

### **HIST 461 AFRICAN DIASPORAS**

**5 hrs**

This course explores the pre-1800 dispersal of African peoples across the Mediterranean and Red Seas and the Atlantic and the Indian Oceans. Students will read primary



documents and juxtapose them to trends in historiography about the history of African peoples. Students will conduct original research and prepare a formal paper suitable for publication or as a writing sample.

### **HIST 465 PAN-AFRICANISMS**

5 hrs

This course examines Pan-African connections since 1800 between persons such as American Booker T. Washington and Jamaican Marcus Garvey who then founded the Universal Negro Improvement Association with chapters in Cincinnati, OH, Cuba, England and South Africa. This course will look at Pan-African political and intellectual movements such as the debate on repatriation to Liberia and Sierra Leone, World Wars and the Pan-African Conference at Versailles, Negritude, the Harlem Renaissance, the appeal of Marxism during the Cold War, independence and separatist movements, and civil rights movements. Students will study leaders of the global movements, their ideas and events showing Atlantic connections between the United States, Africa, the Caribbean, and some Afro-Latin communities.

### **HIST 480 RESEARCH SEMINAR**

5 hrs

The seminar provides an opportunity for independent historical research. Participants explore methodological approaches from history and related social sciences by directly applying these approaches to self-designed projects. Students familiarize themselves with classic and current directions of inquiry in their areas of concentration, and define their own research questions and strategies. Course develops skills of professional historical writing. Seminar is highly recommended to undergraduate students who intend to pursue graduate studies in history or related fields.

### **HIST 490 INTERNSHIP**

1-15 hrs

Internships are available to majors upon submission of a written proposal. They are arranged individually, usually with local organizations or agencies, such as the Ohio Historical Association. The number of credit hours varies with the program agreed upon. Proposals must be submitted no later than three weeks before the end of the term preceding the term in which the internship begins. Approval from the department must be granted before registering for the internship.

## **Political Science Courses (P SC)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### **P SC 100 AMERICAN NATIONAL GOVERNMENT**

5 hrs

A survey of the institutions, processes, and politics of the government of the United States. Particular emphasis is placed on the historical development of federalism, the Congress, the Presidency, the Judiciary, the national bureaucracy, political parties, and interest groups.

### **P SC 115 POLITICAL PHILOSOPHY**

5 hrs

An examination of the normative tradition in Western political inquiry. Emphasis on the post-Socratic concepts of the social contract and natural law, as well as modern



debates on liberalism and conservatism, and capitalism and communism. Theoretical foundations of feminism and critical theory are also studied.

**P SC 130 INTRODUCTION TO GLOBAL POLITICS**

**5 hrs**

This course introduces the student to world political systems and theories of interaction in the global community. It provides a framework for understanding international issues and problems.

**P SC 215 AMERICAN LEGISLATIVE PROCESS**

**5 hrs**

Examines the legislative and representative process with attention to the committee system, seniority, party leadership, and relations with other branches of government. Primary focus is on the U.S. Congress and its norms, rules, and procedures. *Prereq: P SC 100*

**P SC 222 THE PRESIDENCY**

**5 hrs**

The evolution of presidential power and theories of presidential behavior. The function of the Electoral College and the primary system in presidential elections are examined. The role of the Executive Office and the bureaucracy is explored. *Prereq: P SC 100.*

**P SC 225 JUDICIAL PROCESS**

**5 hrs**

Analyzes the role of federal and state courts as political institutions, with special attention to the roles of judges and lawyers in the judicial process. Civil and criminal courts are studied, as well as judicial norms and procedures. *Prereq: P SC 100 or permission of the instructor.*

**P SC 227 COMPARATIVE GOVERNMENT**

**5 hrs**

An introduction to the comparative method of analysis as applied to nation-states and regional governments of the world. Emphasis may be on western or non-western nation-states. *Prereq: P SC 130 or permission of instructor.*

**P SC 230 METHODS OF INQUIRY**

**5 hrs**

A seminar required for majors in political science, designed to acquaint students with basic procedures, material and research tools used by political scientists. Students will be introduced to qualitative and quantitative aspects of the discipline, including principles of probability, descriptive statistics, bivariate correlation and regression analysis utilizing political data.

**P SC 270 THE POLITICAL FILM**

**3 hrs**

The Political Film provides an opportunity to examine the culture industry by investigating how movies (and entertainment more generally) structure ideology and inform a critique of political life. Power will be examined through a study of the way culture is framed, produced, and consumed. The course involves taking a critical approach to popular media, especially film.



**P SC 310 STATE AND LOCAL GOVERNMENT****5 hrs (alt. yrs.)**

State and local government structures, operations, and intergovernmental processes in the United States. The state and local governments of Ohio are used as a basis for providing comparative analysis among states and local governments. *Prereq: P SC 100 or permission of instructor.*

**P SC 325 PUBLIC ADMINISTRATION****5 hrs (alt. yrs.)**

Examines the policymaking process in which federal administrative agencies are involved. Organization theories, budgeting, personnel administration, decision-making theories are discussed. *Prereq: P SC 100 or permission of instructor.*

**P SC 335 THE ELECTORAL PROCESS****5 hrs (alt. yrs.)**

A study of the structure, functions, and operations of interest groups, political parties, public opinion, elections, and the media in American national politics. *Prereq: P SC 215, or permission of instructor.*

**P SC 345 CLASSICAL MEDIEVAL POLITICAL THEORY****5 hrs**

This course focuses on key political thinkers beginning with Plato ending with the early Modern thinkers such as Machiavelli. The course will focus on the key political concepts discussed by classical, medieval, and early Modern political thinkers and delve into the important issues such as the role of the state, the role of reason, the relationship between the individual and the state, and the right to resist tyranny. Primary texts by selected thinkers will be used. *Prereq: P SC 115 or permission of instructor.*

**P SC 346 MODERN AND POSTMODERN POLITICAL THEORY****5 hrs**

This course focuses on key political thinkers beginning with the social contract thinkers, Hobbes, Locke, and Rousseau and ending with contemporary political thought. Special attention will be given to critical theory and contemporary postmodern thinkers. Selected themes and topics will be considered and primary texts will be used. *Prereq: P SC 115 or permission of instructor.*

**P SC 351 SPECIAL TOPICS IN AMERICAN LAW AND POLITICS****3-5 hrs**

This course offers an in-depth examination of a timely or specialized subject focused on American law and/or politics. Past topics have included Affirmative Action, the 2000 Election, and Law and Society. *May be repeated once for credit when offered with a different topic.*

**P SC 352 SPECIAL TOPICS IN GLOBAL POLITICS****3-5 hrs**

This course offers an in-depth examination of a timely or specialized subject focused on Global Politics. Past topics have included Genocide and Gendercide, The Politics of Terrorism, and The War in Iraq. *May be repeated once for credit when offered with a different topic.*

**P SC 353 SPECIAL TOPICS IN POLITICAL THEORY****3-5 hrs**

This course offers an in-depth examination of a timely or specialized subject focused on Political Theory. Past topics have included, Radical and Revolutionary Political



Thought, Conservative Political Thought and Islamic Political Thought. *May be repeated once for credit when offered with a different topic.*

**P SC 355 AMERICAN FOREIGN POLICY**

**5 hrs**

The course will focus on the problems involved in the formulation and execution of United States foreign policy, emphasizing the post-World War II period. *Prereq: P SC 227, or permission of instructor.*

**P SC 370 ENVIRONMENTAL LAW AND POLITICS**

**5 hrs (alt. yrs.)**

This course evaluates the many different ways environmental issues intersect with the judicial and legislative branches of the governments. The course will analyze major environmental laws and their application through the courts, issues of environmental justice, the contemporary state of environmental politics, and the theoretical approaches used in policy formation. *Rereq: P SC 225 or permission of instructor.*

**P SC 375 WOMEN AND POLITICS**

**5 hrs (alt. yrs.)**

This course will begin from a broad understanding of politics as the study of power. We will evaluate the development of feminist theory and the political ramifications of feminist thought. We will study how women have used the political process to have their issues addressed, and will focus on contemporary issues of social and political importance.

**P SC 387 TERRORISM AND GENOCIDE**

**5 hrs**

This course analyzes the causes and consequences of violence perpetrated against civilians by governments (genocide) and by non-state actors (terrorism). Special attention will be given to how genocide and terrorism have been organized throughout history, and how they have evolved into their current applications. The course will explore the extent to which religion, nationality, race, ethnicity, and patriarchy serve as motivating principles for genocide and terrorism. *Prereq: P SC 227 or permission of instructor.*

**P SC 390 INDEPENDENT STUDY**

**1-5 hrs**

Independent study. Open only to majors in political science. *Prereq: permission of instructor.*

**P SC 410 INTERNATIONAL LAW AND INSTITUTIONS**

**5 hrs (alt. yrs.)**

Studies the evolution of international law as it has been generated from international conferences, regional organizations, intergovernmental organizations, the League of Nations, the United Nations and its International Court of Justice. Special attention is given to the legal status of states and dependencies, rules of international diplomacy, refugees, women, and the peaceful settlement of disputes. *Prereq: P SC 227, or permission of instructor.*



**P SC 420 CONSTITUTIONAL LAW AND CIVIL LIBERTIES****5 hrs (alt. yrs.)**

Analyzes the principles of the American constitution and Supreme court decision-making. A case method approach is used to examine concepts such as judicial review, separation of powers, equal protection of the law, race and sex discrimination, voting rights, the right to privacy, freedom of speech and religion, due process, and the rights of the accused. Principles of legal reasoning are discussed. The course is especially recommended for students preparing for law school or legal careers. *Prereq: P SC 225 and Junior standing.*

**P SC 430 LAW, POLITICS AND SOCIETY****5 hrs**

This course draws upon work done by political and social theorists, political scientists, sociologists, psychologists, and criminologists to examine the relationship between law, politics and the social world. The class will focus on the ways in which law constructs social reality and how social reality constructs the law. We will investigate this theme theoretically and through case examples paying close attention to the role stories (or narratives) play in the construction of our legal paradigms. *Prereq: P SC 115 or permission of instructor.*

**P SC 440 AMERICAN POLITICAL AND LEGAL THOUGHT****5 hrs (alt. yrs.)**

A study of the mainstream and radical currents in American legal and political thought which have shaped the American legal and political process. *Prereq: P SC 100 or P SC 115, or permission of instructor.*

**P SC 482 MIDDLE EAST POLITICS****5 hrs**

A study of contemporary domestic and foreign politics in the Middle East, including the Arab-Israeli conflict, the politics of oil, the impact of religion, the clash of national sentiments, and the role of global and regional powers in the affairs of these countries. *Prereq: P SC 227 or permission of instructor.*

**P SC 485 EAST ASIAN POLITICS****5 hrs**

A specialized historical examination of the military, political, social, and economic relations among nation-states of East Asia. *Prereq: P SC 227 or permission of instructor.*

**P SC 488 AFRICAN POLITICS****5 hrs**

Explores the post-colonial politics of sub-Saharan African states, with special reference to issues of nation-building, ethno-politics, challenges of development, regional cooperation, and Pan-African unity. *Prereq: P SC 227 or permission of instructor.*

**P SC 490 INTERNSHIP****1-15 hrs**

Open to majors in political science. Credit is available for work with governmental agencies, political candidates, lobbies, and other private institutions interested in the public sector. *Prereq: P SC 100.*



**P SC 492 MODEL UNITED NATIONS**

**3 hrs**

Studies the structure and processes of the United Nations through participation in Model U.N. programs. Students will represent delegates to a simulated U.N. forum, preparing background information on countries, issues, position papers, and resolutions. Parliamentary procedure also will be studied. *Prereq: P SC 227 or permission of instructor.*



# Honors Program

Refer to p. 45



# Humanities

*Humanities Advisory Committee (coordinator)*

## ***Humanities Courses (Hum)***

As a part of its efforts to support the humanities and their connection to programs across the Campus, the Humanities Advisory Committee allocates a part of its endowment income to bring visiting scholars to Otterbein to enrich the curriculum and the learning experience of the students and faculty.

Information about the experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



# Integrative Studies

Refer to p. 30



# Legal Studies

Halbert (adviser)

The **Legal Studies** interdisciplinary minor is housed in the Department of History and Political Science. The department has designed the minor field to be valuable to students interested in the legal system.

The minor field focuses on the relationship between law and society and on the principles of legal thought and decision-making. Students will be exposed to analytical and communication skills that are demanded in law school and legal careers. Further, the minor's interdisciplinary approach will promote skills with diverse applications, including graduate study, programs in international relations, and social service careers. Students will gain greater understanding of the political and constitutional foundations of the legal system, and of the law's social implications.

The American Bar Association does not prescribe a specific set of courses that will prepare students for admission to law school. Admission to law school depends heavily on the Law School Admission Test (LSAT) score as well as on the grade point average attained in college.

## Minor in Legal Studies

*Required (at least 6 courses):*

### Core Courses (take all four)

<input type="checkbox"/> PHIL 120	Effective Thinking	5 hrs
<input type="checkbox"/> P SC 225	Judicial Process	5 hrs
<input type="checkbox"/> COMM 360	Argumentation and Advocacy	5 hrs
<input type="checkbox"/> P SC 420	Constitutional Law and Civil Liberties	5 hrs

### Legal Thought and Institutions (choose one)

<input type="checkbox"/> P SC 370	Environmental Law and Politics	5 hrs
<input type="checkbox"/> P SC 440	American Political and Legal Thought	5 hrs
<input type="checkbox"/> P SC 410	International Law and Institutions	5 hrs
<input type="checkbox"/> PHIL 270	Symbolic Logic	5 hrs

### Law and Society (choose one)

<input type="checkbox"/> BADM 350	Business Law	5 hrs
<input type="checkbox"/> MCOM 410	Media Ethics and Regulation	5 hrs
<input type="checkbox"/> MUSC 215	Legal Issues in Music	2 hrs
<input type="checkbox"/> P SC 430	Law, Politics and Society	5 hrs
<input type="checkbox"/> SOCL 220	Sociology of Deviance	5 hrs
<input type="checkbox"/> SOCL 310	Criminology	5 hrs
<input type="checkbox"/> SYE 412	Media and the Law	5 hrs

### Residence Requirement:

- ☐ Must be fulfilled by all transfer students (see p. 24)

It is strongly recommended that Legal Studies students join the debate team.



# **Life and Earth Sciences**

*Hoggarth (chairperson), Bouchard, Gahbauer, Grove, Jessen-Marshall, Lawrance, Lehman, Lescinsky, Marr.*

## **Mission and Programs**

The mission of the Department of Life and Earth Sciences is the incremental development in all students of core scientific competencies and intellectual skills, the provision of breadth and depth of educational opportunity, and the enhancement of a community that values learning. As scientists we believe that science is best learned by active enquiry and strongly encourage this at every level, including original student and faculty research projects. As liberal arts scholars we encourage interdisciplinary transfer of knowledge, skills, and attitudes.

The Department of Life and Earth Sciences offers majors in Life Science, Environmental Science and Molecular Biology. In addition, the department offers programs leading toward minors in Life Science and Earth Science. It is also the home department for the interdisciplinary Environmental Studies minor.

## **Majors in Life Science, Environmental Science, and Molecular Biology**

Within the Life Science major five programs of study are offered: ecology, molecular biology, plant science, pre-professional health science, and general biology.

The **Ecology** program of study focuses on the recognition, examination, and understanding of environmental problems within an ecological context. Areas of study include: biodiversity, biological management, preservation of air, water and land quality, identification and inventory of endangered species and habitats, aquatic ecology, and preservation of wetlands and other natural habitats. The program prepares students for graduate research in ecology and environmental positions with government agencies or private firms.

The program emphasizes laboratory and field studies. Otterbein College students are encouraged to do a culminating research project or an internship in an appropriate laboratory or agency (e.g. the Ohio Department of Natural Resources, the Ohio Environmental Protection Agency, the Columbus Metropolitan Parks Systems). Students are encouraged to attend biological field programs such as those available at Stone Laboratories on Lake Erie, Highlands Biological Station in North Carolina, and Sea Semester at Woods Hole Biological Station on Cape Cod, Massachusetts.

The **Molecular Biology** program of study focuses on life at the molecular and cellular levels. Areas of study include the molecular structure of DNA and genomes; the cellular organization of life, cell specialization, and the manipulation of life through genetic engineering. This program is for students interested in combining the study of molecular biology with other programs and majors (e.g. secondary education, journalism, etc.) or a more broadly focused liberal arts education. Students interested in preparation for graduate and professional programs are encouraged to complete the molecular biology major (see below).

The **Plant Science** program of study prepares students for graduate programs, research and technical positions in the plant sciences. Areas of emphasis in Otterbein's program include: 1) the fundamentals of plant morphology, anatomy, and physiology,



2) the interaction between plants and their pathogens, and 3) the impact of plant science on society from a traditional and molecular viewpoint. Lecture and laboratory experiences provide a solid foundation in botanical principles and provide a clear understanding of the importance of plant science to a range of topics including agriculture, biotechnology, and ecology. An independent research project in the plant sciences is strongly encouraged for each student.

The **Pre-Professional Health Sciences** program of study is appropriate for students wishing to apply to graduate programs in medicine, osteopathic medicine, chiropractic medicine, dentistry, veterinary medicine, optometry, podiatry, physician's assistant, or health-related science. In addition to coursework, experience with professional practitioners (such as through internships or independent research projects) is strongly recommended.

The **General Biology** program of study fulfills the college requirement of a Life Science major, and is appropriate for students who wish an individualized concentration of advanced Life Science courses. This program of study prepares students for biological careers that emphasize a breadth of knowledge in the field or for graduate programs in General Biology.

The **Environmental Science** major is designed to prepare students for work in environmental fields by providing a solid foundation in the natural sciences, expertise in physical environment, and the interdisciplinary scope needed by environmental professionals today. The major includes a core of courses in life and earth sciences and strongly suggests courses in other fields such as statistics and economics.

The department also offers a program of study leading to a major in **Molecular Biology**. Molecular biology integrates the principles and techniques of biology, chemistry and physics into the analysis of the macromolecules of living organisms with primary focus on nucleic acids and proteins. Students in the molecular biology major are strongly encouraged to complete an independent research project through either the honors, distinction, internship or independent study programs. The major is recommended for students interested in graduate studies in molecular and cellular biology, medical school, veterinary school and positions in the biotechnology industry.

**Students majoring in Environmental Science, Molecular Biology, or Life Science must have a 2.0 average in L SC 101, 102 and 103 to progress to L SC 201, L SC 204 or E SC 205. Students must maintain a 2.0 average in L SC 201 and 202 (for Molecular Biology and Life Science majors) or L SC 204 and E SC 205 (for Environmental Science majors) to enroll in any 300 level courses in the department. L SC 101 has a MATH 115 or 120 co-requisite.**

### ***B.A. or B.S. degree with a Major in Life Science***

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)



*Requirements in the major (60 hrs or equivalent)*

- |   |   |
|---|---|
| <input type="checkbox"/> L SC 101 - 5 hrs | <input type="checkbox"/> L SC 498 - 1 hr  |
| <input type="checkbox"/> L SC 102 - 5 hrs | <input type="checkbox"/> CHEM 140 - 3 hrs |
| <input type="checkbox"/> L SC 103 - 5 hrs | <input type="checkbox"/> CHEM 141 - 1 hr  |
| <input type="checkbox"/> L SC 201 - 5 hrs | <input type="checkbox"/> CHEM 150 - 3 hrs |
| <input type="checkbox"/> L SC 202 - 5 hrs | <input type="checkbox"/> CHEM 151 - 1 hr  |
| <input type="checkbox"/> L SC 298 - 1 hr  | <input type="checkbox"/> CHEM 160 - 3 hrs |
| <input type="checkbox"/> L SC 398 - 1 hr  | <input type="checkbox"/> CHEM 161 - 1 hr  |

One of the following five programs of study is also required:

**1. Ecology program of study** (take any four courses)

- |  |   |
|--|---|
| <input type="checkbox"/> L SC 302 - 5 hrs        | <input type="checkbox"/> L SC 313 - 5 hrs |
| <input type="checkbox"/> L SC 303 or 316 - 5 hrs | <input type="checkbox"/> L SC 315 - 5 hrs |
| <input type="checkbox"/> L SC 304 - 5 hrs        | <input type="checkbox"/> L SC 319 - 5 hrs |
| <input type="checkbox"/> L SC 307 - 5 hrs        | <input type="checkbox"/> L SC 321 - 5 hrs |
| <input type="checkbox"/> L SC 308 or 317 - 5 hrs |   |

- Suggested electives include Earth Science 201/202/205/301/302; Chemistry 240/241/250/251/260/261; Computer Science 100; Life Science 204/208/212/213/214/250/390/490; and Math 230/231.

**2. Molecular Biology program of study**

Required:

- ☐ L SC 301 - 5 hrs

Electives (take any three)

- |  |   |
|--|---|
| <input type="checkbox"/> L SC 304 - 5 hrs        | <input type="checkbox"/> L SC 314 - 5 hrs |
| <input type="checkbox"/> L SC 305 - 5 hrs        | <input type="checkbox"/> L SC 317 - 5 hrs |
| <input type="checkbox"/> L SC 306 - 5 hrs        | <input type="checkbox"/> L SC 318 - 5 hrs |
| <input type="checkbox"/> L SC 308 or 311 - 5 hrs |   |

- Suggested electives include courses in Business, Chemistry, Education, Journalism, Life Sciences and/or other disciplines.

**3. Plant Science program of study** (take any four courses)

- |  |   |
|--|---|
| <input type="checkbox"/> L SC 301 or 304 - 5 hrs | <input type="checkbox"/> L SC 316 - 5 hrs |
| <input type="checkbox"/> L SC 303 - 5 hrs        | <input type="checkbox"/> L SC 317 - 5 hrs |
| <input type="checkbox"/> L SC 308 - 5 hrs        | <input type="checkbox"/> L SC 318 - 5 hrs |
| <input type="checkbox"/> L SC 313 or 315 - 5 hrs |   |

- Suggested electives include Chemistry 240/241/250/251/260/261; Computer Science 100; Life Science 208/213/214/250/390/490; Math 170/180/230/231; and Physics 121/122/123 or 171/172/173 and 141/142/143.

**4. Pre-professional Health Sciences program of study** (take any four courses)

- |   |   |
|---|---|
| <input type="checkbox"/> L SC 301 - 5 hrs | <input type="checkbox"/> L SC 309 - 5 hrs |
| <input type="checkbox"/> L SC 304 - 5 hrs | <input type="checkbox"/> L SC 311 - 5 hrs |
| <input type="checkbox"/> L SC 305 - 5 hrs | <input type="checkbox"/> L SC 314 - 5 hrs |
| <input type="checkbox"/> L SC 306 - 5 hrs | <input type="checkbox"/> L SC 318 - 5 hrs |

- Suggested electives include Chemistry 240/241/250/251/260/261/450/460; Computer Science 100; Life Science 208/211/215/250/390/490; Math 170/180/230/231; and Physics 121/122/123 or 171/172/173 and 141/142/143. Check with the premed adviser for admission requirements for specific professional programs.



**5. General Biology program of study (take any 4 courses)**

- |   |   |
|---|---|
| <input type="checkbox"/> L SC 301 - 5 hrs | <input type="checkbox"/> L SC 311 - 5 hrs |
| <input type="checkbox"/> L SC 302 - 5 hrs | <input type="checkbox"/> L SC 313 - 5 hrs |
| <input type="checkbox"/> L SC 303 - 5 hrs | <input type="checkbox"/> L SC 314 - 5 hrs |
| <input type="checkbox"/> L SC 304 - 5 hrs | <input type="checkbox"/> L SC 315 - 5 hrs |
| <input type="checkbox"/> L SC 305 - 5 hrs | <input type="checkbox"/> L SC 316 - 5 hrs |
| <input type="checkbox"/> L SC 306 - 5 hrs | <input type="checkbox"/> L SC 317 - 5 hrs |
| <input type="checkbox"/> L SC 307 - 5 hrs | <input type="checkbox"/> L SC 318 - 5 hrs |
| <input type="checkbox"/> L SC 308 - 5 hrs | <input type="checkbox"/> L SC 319 - 5 hrs |
| <input type="checkbox"/> L SC 309 - 5 hrs | <input type="checkbox"/> L SC 321 - 5 hrs |

- Suggested electives include Chemistry 220 or 240/241/250/251/260/261; Earth Science 101/201/202/205/301/302; and Life Science 204/208/211/212/213/214/215/250.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**B.A. or B.S. degree with a Major in Environmental Science**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Languages - 10 hrs for B.A. or 15 hrs. for B.S. (specifics on p. 15)
- ☐ Mathematics - 5 hrs for B.A. or 15 hrs for B.S. (specifics on p. 16)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (75 hrs or equivalent)*

*Required Life Science courses (33 hrs)*

- |   |  |
|---|--|
| <input type="checkbox"/> L SC 101 - 5 hrs | <input type="checkbox"/> Any two electives from among LSC 302, 303, 307, 313, 315, 316 and 319, and 321 - 10 hrs |
| <input type="checkbox"/> L SC 102 - 5 hrs |  |
| <input type="checkbox"/> L SC 103 - 5 hrs | <input type="checkbox"/> L SC 398 - 1 hr   |
| <input type="checkbox"/> L SC 204 - 5 hrs | <input type="checkbox"/> L SC 498 - 1 hr   |
| <input type="checkbox"/> L SC 298 - 1 hr  |  |

*Required Earth Science courses (20 hrs)*

- |   |  |
|---|--|
| <input type="checkbox"/> E SC 201 - 5 hrs | <input type="checkbox"/> Any two electives from among ESC 202, 301, 302 - 10 hrs |
| <input type="checkbox"/> ESC 205 - 5 hrs  |  |

*Required Environmental Studies courses (10 hrs)*

- |   |   |
|---|---|
| <input type="checkbox"/> ENST 101 - 5 hrs | <input type="checkbox"/> ENST 401 - 5 hrs |
|---|---|

*Required Chemistry courses (12 hrs)*

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 140/141 - 4 hrs | <input type="checkbox"/> CHEM 160/161 - 4 hrs |
| <input type="checkbox"/> CHEM 150/151 - 4 hrs |   |

- Suggested electives include Physics 121/122/123 or 171/172/172 and 141/142/143; Life Science 212/213/214/250/303/390/490; Earth Science 390/490; MATH 230/231; ECON 210/220/425; all courses in environmental studies minor.



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**B.A. or B.S. degree with a Major in Molecular Biology**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13)
- ☐ Foreign Language - 10 hrs for B.A. or 15 hrs for B.S. (specifics on p. 15)
- ☐ Mathematics - fulfilled by meeting requirements in the major
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (103 hrs or equivalent)*

Required Life Science courses (48 hrs)

- |   |   |
|---|---|
| <input type="checkbox"/> L SC 101 - 5 hrs | <input type="checkbox"/> L SC 301 - 5 hrs         |
| <input type="checkbox"/> L SC 102 - 5 hrs | <input type="checkbox"/> Any three electives from |
| <input type="checkbox"/> L SC 103 - 5 hrs | among L SC 304, 305, 306,                         |
| <input type="checkbox"/> L SC 201 - 5 hrs | 308, 311, 314, 317 and 318 - 15 hrs               |
| <input type="checkbox"/> L SC 202 - 5 hrs | <input type="checkbox"/> L SC 398 - 1 hr          |
| <input type="checkbox"/> L SC 298 - 1 hr  | <input type="checkbox"/> L SC 498 - 1 hr          |

Required Chemistry courses (30 hrs)

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 140/141 - 4 hrs | <input type="checkbox"/> CHEM 250/251 - 4 hrs |
| <input type="checkbox"/> CHEM 150/151 - 4 hrs | <input type="checkbox"/> CHEM 260/261 - 4 hrs |
| <input type="checkbox"/> CHEM 160/161 - 4 hrs | <input type="checkbox"/> CHEM 450 - 3 hrs     |
| <input type="checkbox"/> CHEM 240/241 - 4 hrs | <input type="checkbox"/> CHEM 460 - 3 hrs     |

Required Physics courses (15 hrs)

- |   |   |
|---|---|
| <input type="checkbox"/> PHYS 171/141 - 5 hrs | <input type="checkbox"/> PHYS 173/143 - 5 hrs |
| <input type="checkbox"/> PHYS 172/142 - 5 hrs |   |

Required support courses (10 hrs)

- |   |   |
|---|---|
| <input type="checkbox"/> MATH 170 - 5 hrs | <input type="checkbox"/> MATH 180 - 5 hrs |
|---|---|

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed. All students planning to enroll in Life Science 390 or 490 or Earth Science 390 or 490 must contact the department to obtain permission at least one term prior to enrollment.



### **Minor in Life Science**

*Required (at least 25 total hrs):*

- ☐ All hours from among any L SC courses.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

### **Minor in Earth Science**

**Earth Science** examines all aspects of the planet earth including rocks and minerals, natural resources, landforms, oceanography, and the history of the planet and its life forms. The Earth Science program provides supporting courses for the Ecology concentration and the Environmental Science major. The minor in Earth Science helps prepare students for graduate programs in ecology, environmental sciences, and environmental studies.

*Required (at least 25 total hrs):*

- ☐ All hours from among any E SC courses.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

### **Minor in Environmental Studies**

For a description of the **environmental studies minor**, refer to p. 122 in this section of the catalog.

**Life Sciences Teacher Licensure (grades 7 - 12):** Requirements for students seeking Life Science teacher licensure are listed in the *Teacher Education Programs* handbook available in the Education Department. Requirements for the Life Science major and teacher licensure may differ somewhat, but both must be met to become licensed and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

### **Program Outcomes**

The **Ecology** program prepares students for graduate research in ecology and environmental positions with government agencies and private firms.

The **General Biology** program of study prepares students for biological careers that emphasize a breadth of knowledge (e.g. secondary education) and provides flexibility for students whose goals are best served by an individualized curriculum.

The **Molecular Biology** program of study prepares students for entry-level positions in biotechnology, biomedical research and the pharmaceutical industry.

The **Plant Science** program prepares students for graduate studies, research and technical positions in the plant sciences.

The **Pre-Professional Health Sciences** program of study prepares students for programs in medicine, osteopathy, chiropractic, dentistry, veterinary medicine, optometry, podiatry, medical technology, physicians' assistants, and other health fields or graduate programs in the health sciences.



The **Environmental Science Major** prepares students for graduate studies and positions with government agencies and private environmental firms.

The **Molecular Biology Major** prepares students for graduate programs in molecular and cellular biology, professional programs (e.g. medical and veterinary schools) and positions in biotechnology.

The **Earth Science minor** helps prepare students for careers and graduate studies in environmental science and ecology.

### **Life Science Courses (L SC)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

#### **L SC 101 INTRODUCTORY BIOLOGY I (MOLECULES, GENES, AND CELLS)**

**5 hrs**

*Lecture and laboratory*

The first course in the introductory sequence emphasizing a study of life at the molecular level. This course includes a basic foundation in biochemistry, molecular genetics and cell biology. The development of the central dogma and our current understanding of the molecular basis of gene structure, regulation and evolution as well as the many impacts of DNA on biology and society are considered. Laboratory exercises include basic techniques in biochemistry, genetic engineering, microbiology and cell biology. *Coreq: MATH 115 or 120 or permission.*

#### **L SC 102 INTRODUCTORY BIOLOGY II (PLANTS, GENETICS, AND EVOLUTION)**

**5 hrs**

*Lecture and laboratory*

This is the second course in the sequence that studies cell structure and function, genetics, and anatomy/physiology of plants and plant-like organisms. Emphasis will be given to phylogenetic diversity of biological organisms. Laboratory exercises include detailed microscopic examination and exploration of bacteria, algae, fungi and nonvascular and vascular plants. *Prereq: L SC 101 or permission.*

#### **L SC 103 INTRODUCTORY BIOLOGY III (ANIMALS AND ECOLOGY)**

**5 hrs**

*Lecture and laboratory*

The third course in the introductory sequence. This course will focus on the evolution of animal structure and function as well as the examination of animal diversity. Animals and their environments will be examined. Laboratory exercises will include a hands on examination of organisms that illustrate the principles discussed in lecture as well as field experiences in animal ecology. *Prereq: L SC 101 and 102 or permission.*

#### **L SC 108 ANATOMY AND PHYSIOLOGY I**

**5 hrs**

*Lecture and laboratory*

The first of a two-quarter lecture and laboratory course in human anatomy and physiology with special emphasis on the integration of the body systems and the maintenance of homeostasis. Topics investigated are the molecules of life, cellular biology, micro-



scopic and gross study of tissues, the axial and appendicular skeleton, the muscular system, the hematological, cardiovascular, and respiratory systems. *Prereq: CHEM 110 or permission.*

**L SC 109 ANATOMY AND PHYSIOLOGY II**

**5 hrs**

*Lecture and laboratory*

The second of a two-quarter lecture and laboratory course in human anatomy and physiology with special emphasis in the integration of the body systems and the maintenance of homeostasis. Topics investigated are the urinary system, acid-base and fluid balance, the digestive system and intermediary metabolism, the neurological, endocrine, and immune systems, genetics and aging. *Prereq: L SC 108 or permission.*

**L SC 111 HUMAN ANATOMY AND PHYSIOLOGY I**

**5 hrs**

*Lecture and laboratory*

The first of a two-quarter lecture and laboratory sequence of courses in anatomy and physiology with an introduction to chemistry, cells and tissues and special emphasis on the bony skeleton, joints and the skeletal muscular system. The two-quarter sequence is a preparation for Kinesiology and Exercise Physiology, and is required of all Health and Physical Education Majors, and Health Promotion and Fitness majors. *Prereq: HLED 180 and coreq MATH 115, or permission.*

**L SC 112 HUMAN ANATOMY AND PHYSIOLOGY 2**

**5 hrs**

*Lecture and laboratory*

The second of a two-quarter lecture and laboratory sequence in anatomy and physiology with emphasis on the systems involved in exercise: nervous, endocrine, cardiovascular, hematological, respiratory, urinary, and digestive systems will be considered, with their role in metabolism and heat balance, and fluid, electrolyte and acid-base balance. *Prereq: L SC 111 or permission.*

**L SC 201 GENETICS**

**5 hrs**

*Lecture and laboratory*

This course encompasses both modern and classical genetics. Topics include the application of Mendelian genetics, the molecular biology of genes and genetic analysis of complex traits. Laboratory activities include the use of fruit flies, fungi, plants and humans as model organisms to explore genetic principles. *Prereq: L SC 103 or permission.*

**L SC 202 CELL BIOLOGY**

**5 hrs**

*Lecture and laboratory*

The cell is the fundamental unit of life. This course explores the ability of cells to grow and divide, communicate and perform metabolic processes. Topics include: energy transformation, respiration and photosynthesis, membrane transport, signal transduction, and organelle structure and function. The laboratory experience includes mastery of techniques such as differential centrifugation, SDS-PAGE, spectrophotometry and histochemistry. *Prereq: L SC 201 or permission.*



**L SC 204 ENVIRONMENTAL BIOLOGY****5 hrs (alt. yrs.)***Lecture and laboratory*

This course gives the student an understanding of the complex issues associated with environmental assessment, mitigation and quality. The laboratory/field experience is centered on the determination of the quality/integrity of nearby aquatic and terrestrial habitats. Field trips providing hands on experience and laboratory sections designed to develop the skills needed to make these determinations are emphasized. *Prereq: ENST 101 or permission.*

**L SC 206 HUMAN MICROBIOLOGY****5 hrs***Lecture and laboratory*

A study of the microbes in relationship to the human body, including indigenous flora and pathogens. Topics include structure, metabolism, genetics and control of microbes; introduction to the viruses; overview of the immune system; treatment and prevention of infectious diseases; resistance and emerging pathogens. Laboratory requires the identification of two unknowns in mixed culture. *Prereq: CHEM 110 or permission.*

**L SC 208 SCIENTIFIC TERMINOLOGY****2 hrs**

A course designed to study the origins, meaning and usage of scientific terms and scientific thinking.

**L SC 211 EMBRYOLOGY****3 hrs (alt. yrs.)***Lecture and laboratory*

This course is designed to give students knowledge of the development process of vertebrate embryos. The laboratory experience focuses on the microscopic study of embryo cross sections. Recommended for preprofessional medical and paramedical students.

**L SC 212 BIRDS OF OHIO****2 hrs**

This course provides field-naturalist skills for science majors, education majors, and any student interested in learning to identify birds in Ohio. Activities include lectures, local field trips, and slide and specimen study.

**L SC 213 WILDFLOWERS AND FERNS OF OHIO****2 hrs**

This course provides field-naturalist skills for science majors, education majors, and any student interested in learning to identify spring wildflowers and ferns in Ohio. Activities and topics include lectures, local field trips, use of taxonomic keys, plant nomenclature, flower anatomy and plant family characteristics.

**L SC 214 TREES OF OHIO****2 hrs**

This course provides field-naturalist skills for science majors, education majors, and any student interested in learning to identify trees in Ohio. Activities and topics include lectures, local field trips, use of taxonomic keys, plant nomenclature, characteristics of woody plant families, and economic utility of major tree species.



**L SC 215 HISTOLOGY**

*Lecture and Laboratory*

**3 hrs (alt. yrs.)**

A course designed to study animal tissues as the structural components of organs and the site of life processes. Light microscopes are used.

**L SC 225 PROBLEM BASED LEARNING IN INTRODUCTORY LIFE SCIENCE**

*Lecture and Field Experience*

**5 hrs**

From your K-12 and life experiences, you are already familiar with many of the basic concepts of life science. This course will review and build on this knowledge and help you develop skill in the analysis of data and use this analysis and scientific criteria to draw valid conclusions. *Prereq: EDUC 160 or permission.*

**L SC 250 LIFE SCIENCE PRACTICUM**

**2 hrs**

The objective of this course is to examine current literature, use current equipment, and become familiar with current techniques in the life sciences. The course emphasizes the development of laboratory and/or field techniques using state of the art technology in the investigation of timely biological phenomena and/or principles. *May be repeated for credit.*

**L SC 298 SOPHOMORE DEPARTMENTAL SEMINAR**

**1 hr**

Students will hear about the research interests of the departmental faculty and visit the department's research laboratories. Faculty will demonstrate the types of equipment available in the department and students will develop an understanding of the scientific method. Guest speakers will discuss their research and students will critique presentation style.

**L SC 301 MOLECULAR GENETICS**

*Lecture and laboratory*

**5 hrs**

A study of the modern synthesis of classical genetics and biochemistry. Topics include the molecular structure of genes and genomes, gene regulation in prokaryotes and eucaryotes, DNA mutation, repair and recombination, molecular evolution and genetic engineering in medicine and other applied fields. Laboratory emphasizes advanced techniques of DNA analysis including gene cloning and sequencing. *Prereq: L SC 202 or permission.*

**L SC 302 FIELD BIOLOGY**

*Lecture and laboratory*

**5 hrs (alt. yrs.)**

A study of the land forms, plant life, and animals of central Ohio. Lecture, laboratory, field experience and independent study will be used to identify and examine the interactions between these elements. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

**L SC 303 PLANT DIVERSITY AND MORPHOLOGY**

*Lecture and laboratory*

**5 hrs (alt. yrs.)**

This course covers the evolution and diversity of plants and plant-like organisms. Emphasis will be placed on the phylogenetic relationships and evolutionary origins of plants. Lecture and laboratory include detailed exploration of the classification,



life cycles, and ecology of algae, mosses, ferns, gymnosperms, and angiosperms. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

**L SC 304 MICROBIOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

Microbiology explores the vast world of organisms usually invisible to the unaided eye. Topics include the biochemistry, morphology, metabolism, and genetics of bacteria, viruses, prions and other microbial life forms. In addition an examination of the dynamic impact of microbes on humans, the immune response and the role of microbes in the environment are also studied. Laboratory experience stresses techniques and methodology of identification, culturing, inhibition and destruction of microbes. These culminate in an investigative experience requiring identification of unknown microbes. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

*L SC 301 is recommended.*

**L SC 305 IMMUNOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

A study focusing on the cellular and molecular bases of the immune response which also examines immunology from developmental, systemic and clinical perspectives. An overview of classical experiments of immunology is combined with examination of current areas of immunological research (through readings from the primary literature). The laboratory emphasizes basic immunological techniques and creative application of scientific method. *Prereq: L SC 202 or permission. L SC 301 is recommended.*

**L SC 306 HUMAN GENETICS**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

An exploration of the molecular, transmission and population genetics of our own species. Topics include the genetics of human origins and evolution, behavior and intelligence, health and disease, and the new genetic and reproductive technologies. Social and ethical issues are also addressed. Laboratory includes karyotyping, an analysis of human DNA sequence variation and field trips to laboratories applying human genetics in forensics, genetic counseling and research. *Prereq: L SC 202 or permission. L SC 301 is recommended.*

**L SC 307 INVERTEBRATE ZOOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

A study of the major invertebrate phyla emphasizing taxonomy, identifying characteristics and ecology. The laboratory will be used to collect, identify, catalog and properly preserve representative specimens of the phyla examined. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

**L SC 308 PLANT PHYSIOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

This course addresses the vital biochemical and physiological processes of plants. Lecture and laboratory topics include plant metabolism/biochemistry, water relations and mineral nutrition, and plant growth and development. *Prereq: L SC 202 or permission. L SC 301 is recommended.*



**L SC 309 VERTEBRATE MORPHOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

The purpose of this course is to examine vertebrate structure and to develop an understanding of the ways in which these structures function within a living animal. Structural elements will be examined in the laboratory while lecture is devoted to an understanding of the function and the ontogenetic and phylogenetic development of the structures examined. *Prereq: L SC 202 or permission.*

**L SC 311 ANIMAL SYSTEMS PHYSIOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

An investigative study of physiological mechanisms in animal systems, with emphasis on the human. *Prereq: L SC 202 or permission.*

**L SC 312 BASIC PATHOPHYSIOLOGY**

**5 hrs**

A one-quarter course comprising basic pathological processes and study of the clinical effects of pathology on the major body systems, with the aim of developing a working understanding of the structures and behavior of the human organism in health and disease. *Prereq: L SC 108, 109, 206, and CHEM 220 or permission.*

**L SC 313 ECOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

A study of the interrelationships between organisms and their physical environments. Topics include the flow of energy and matter within an ecosystem, community structure and function, and the characteristics of freshwater, terrestrial and marine environment. Field techniques and instrumentation are stressed. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

**L SC 314 DEVELOPMENTAL BIOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

This course examines molecular mechanisms that allow a single cell to give rise to a complex multicellular organism. This field of study includes the morphogenetic phenomena of growth, differentiation, regeneration, metamorphosis and aging. The laboratory experience will use microscopic, genetic and molecular techniques to explore these topics. *Prereq: L SC 202 or permission. L SC 301 is recommended.*

**L SC 315 ECOLOGICAL MANAGEMENT/LAND USE PLANNING**

*Lecture and laboratory*

**5 hrs (alt. yrs.)**

A study of the skills needed, the techniques utilized, and the problems encountered as you develop a comprehensive land/resource management plan for a large natural area. Students will develop a complete master plan for a central Ohio park reservation including budget and staffing, public use facilities, wildlife management and interpretive programming. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

**L SC 316 PLANT BIOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

A broad-based plant science course detailing main themes in plant biology and research. Major topics to be covered include: angiosperm plant body, energy relations



in plants, plant evolution and diversity, plant physiology, plant ecology, economic plant science and plant biotechnology. Laboratory activities emphasize anatomy, physiology and genetics of flowering plants. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

### **L SC 317 PLANT PATHOLOGY**

**5 hrs (alt. yrs.)**

#### *Lecture and Laboratory*

An introductory course in plant pathology dealing with the nature, cause and control of plant disease. Emphasis will be given to diversity and life histories of plant pathogens, physiology and genetics of host resistance, and the control of plant disease through traditional methods and the use of biotechnology and molecular techniques. Laboratories will deal with techniques used in plant pathology, including fungal and bacterial isolation, identification and inoculation. *Prereq: L SC 202 or permission. L SC 301 is recommended.*

### **L SC 318 MICROBIAL PHYSIOLOGY**

**5 hrs (alt. yrs.)**

#### *Lecture and Laboratory*

The diversity of microorganisms is due to adaptations required for growth in different habitats including extremes in pH, temperature, and oxygen availability. This course is designed to explore how these organisms have adapted to thrive in these environments. Topics include bioenergetics, metabolic regulation, cell-cell signaling and response to environmental stresses. The laboratory experience will explore questions such as solute transport mechanisms and metabolic diversity for a variety of microbial organisms. *Prereq: L SC 202 or permission.*

### **L SC 319 CORAL REEF ECOLOGY**

**5 hrs (alt. yrs.)**

#### *Lecture and Field Experience*

A study of the physical and biological processes that shape coral reefs. Topics will include reef geology, diversity of marine organisms, and human impacts. The course will include a field trip to a coral reef environment and the completion of a research project. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

### **L SC 321 VERTEBRATE BIOLOGY**

**5 hrs (alt. yrs.)**

#### *Lecture and Laboratory*

This course surveys vertebrate diversity in an evolutionary framework. Students discuss vertebrate physiology, ecology, behavior, and life history as well as current issues in conservation. *Prereq: L SC 202 or L SC 204 or E SC 205 or permission.*

### **L SC 390 INDEPENDENT STUDY**

**1-5 hrs**

This course provides students with an opportunity to engage in independent research on a life science topic of their choice under the direction of a life science faculty member. *Prereq: Permission of Instructor.*

### **L SC 398 JUNIOR DEPARTMENTAL SEMINAR**

**1 hr**

Students will identify an advisor for their research project and develop a research proposal. Guest speakers will discuss their research and students will critique the style and content of the talks.



**L SC 490 INTERNSHIP**

**1-15 hrs**

Cooperative internships in health and environmental science. The student is advised to apply to The Department of Life and Earth Sciences for prerequisites and guidelines at the initiation of the program and in no case should application be made later than one term prior to registration for an internship. *Prereq: Permission*

**L SC 498 SENIOR DEPARTMENTAL SEMINAR**

**1 hr**

Students will examine ethical issues in the biological and geological sciences, present a seminar on their research project, and assess their preparation as scientists through an exit interview. Guest speakers will discuss their research and students will critique the science being presented.

**Earth Science Courses (E SC)**

**E SC 101 OCEANOGRAPHY**

**5 hrs**

Designed to provide an appreciation and understanding of the physical, geological, chemical and biological aspects of the world's ocean. The interdisciplinary nature of the marine environment, its response to external stimuli and its potential resources will be emphasized.

**E SC 201 PHYSICAL GEOLOGY**

**5 hrs**

*Lecture and laboratory*

Minerals and rocks and the processes that produce them; the earth's landscapes and the agents that make and modify them; the earth's internal architecture and economic utilization of earth's minerals.

**E SC 202 HISTORICAL GEOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

The history of development of the earth and its features from its origin to the present, and the accompanying evolutionary change in life and in man as revealed by the fossil record.

**E SC 205 ENVIRONMENTAL GEOLOGY**

**5 hrs (alt. yrs.)**

*Lecture and laboratory*

An introduction to the interaction between humanity and the physical environment. Covers a broad range of topics including hazardous earth processes such as earthquakes, volcanoes and flooding; and energy, mineral and land use.

**E SC 250 EARTH SCIENCE PRACTICUM**

**2 hrs**

The objective of the earth science practicum is to examine current topics and techniques in the earth sciences. The course emphasizes the development of field and laboratory methods in the investigation of timely geological phenomena and/or principles. *May be repeated for credit.*



**E SC 301 FIELD GEOLOGY****5 hrs (alt. yrs.)***Lecture and laboratory*

An introduction to the basic principles of rock formation, the classification and physical origin of rock structure and crustal tectonic processes. Field work and labs are dedicated to developing skills in field and map recognition of geologic structures.

*Prereq: E SC 201 or permission.*

**E SC 302 GEOLOGY OF THE UNITED STATES****5 hrs (alt. yrs.)***Lecture and field experience*

Description and interpretation of the natural regions of our country in terms of geological origins, processes and resources. Presented with respect to the geologic history of the National Parks. *Prereq: E SC 201 or permission.*

**E SC 390 INDEPENDENT STUDY****1-5 hrs**

Students may pursue a minor research project with more advanced work in departmental offerings. At least two terms should be allowed for completion.

*Prereq: Permission.*

**E SC 490 INTERNSHIP****1-15 hrs**

Cooperative internships in the earth sciences. The student is advised to apply to the Department of Life and Earth Sciences for prerequisites and guidelines at the initiation of the program and in no case should application be made later than one term prior to registration for an internship. *Prereq: Permission*



# Mathematical Sciences

Thompson (chairperson), Boros, Buck, Contenza, Day, Harper, Hinton, Hrinca, Huang, James, McMullen, Sanderson, Slauson, Smith, Stucki, Tong.

## Mission and Programs

The mission of the Department of Mathematical Sciences is to foster an environment of intellectual growth as a catalyst to develop certain habits of mind for students and faculty, including attention to rigorous thinking, analytic and synthesizing skills, problem solving processes and techniques; and creativity for adaptation to evolving disciplines. To this end, we strive to motivate and stimulate interest in the mathematical sciences for majors and non-majors, assist all students to understand the value in and the applications of the mathematical sciences, provide an adequate blend of theory and methodology, prepare students to deal with change by helping them to learn how to learn, and support continued professional growth of faculty.

The department offers a major in actuarial science, and majors and minors in mathematics and computer science. In addition, it provides courses that serve as core requirements for the B.A., B.S., B.M.E., B.S.N., and B.S.E. and remedial course work designed for those students who do not qualify for the college-level requirements.

## B.A. degree with a major in Mathematics

### Requirements in the Core Curriculum:

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 10 hrs (specifics on p. 15)
- ☐ Mathematics – fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience – hrs depend upon course selected (specifics on p. 16)

### Requirements in the major (at least 50 total hrs)

#### A. Foundation courses (35 hours)

- |   |   |
|---|---|
| <input type="checkbox"/> MATH 170 – 5 hrs | <input type="checkbox"/> MATH 220 – 5 hrs                 |
| <input type="checkbox"/> MATH 180 – 5 hrs | <input type="checkbox"/> MATH 230 – 5 hrs                 |
| <input type="checkbox"/> MATH 190 – 5 hrs | <input type="checkbox"/> MATH 290 – 3 hrs                 |
| <input type="checkbox"/> MATH 200 – 5 hrs | <input type="checkbox"/> MATH 300 – 1 hr (at least twice) |

#### B. Classical mathematics component (3 or 5 hours)

- ☐ At least **one** of the following: MATH 330, 360, 365, 380

#### C. Capstone (5 hours)

- ☐ One of MATH 435 (5 hrs) or MATH 480 (4 hrs) & 481 (1 hr)

#### D. Assessment (0 hours)

- ☐ MATH 498

#### E. ☐ Remaining hours to reach 50 total hours from among MATH 231 and any other MATH courses numbered above 300 **except** MATH 390, 420, and 490 (unless permission is granted by the department). **Included in the 50 hours must be at least 15 at the 300/400 level taken in an Otterbein classroom.**

*Courses should be selected in consultation with a mathematics advisor.*

- Suggested electives include computer science courses, ENGL 335 and COMM 280.



**Residence Requirement:**

- ☐ Must be fulfilled by all transfer students (see p. 24)

**Required total hours for the degree:**

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

**Application for Degree**

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**S. degree with a major in Mathematics**

**Requirements in the Core Curriculum:**

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 15 hrs (specifics on p. 15)
- ☐ Mathematics – fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience – hrs depend upon course selected (specifics on p. 16)

**Requirements in the major (at least 65 total hrs)**

**A. Foundation courses (35 hours)**

- |   |   |
|---|---|
| <input type="checkbox"/> MATH 170 – 5 hrs | <input type="checkbox"/> MATH 220 – 5 hrs                 |
| <input type="checkbox"/> MATH 180 – 5 hrs | <input type="checkbox"/> MATH 230 – 5 hrs                 |
| <input type="checkbox"/> MATH 190 – 5 hrs | <input type="checkbox"/> MATH 290 – 3 hrs                 |
| <input type="checkbox"/> MATH 200 – 5 hrs | <input type="checkbox"/> MATH 300 – 1 hr (at least twice) |

**B. Classical component (11 or 13 hours)**

- ☐ At least **three** of the following: MATH 330, 360, 365, 380

**C. Capstone (5 hours)**

- ☐ One of MATH 435 (5 hrs) or MATH 480 (4 hrs) & 481 (1 hr)

**D. Assessment (0 hours)**

- ☐ MATH 498

- E. ☐ Remaining hours to reach 65 total hours from among MATH 231 and any other MATH courses numbered above 300 **except** MATH 390, 420, and 490 (unless permission is granted by the department). **Included in the 65 hours must be at least 15 at the 300/400 level taken in an Otterbein classroom.** Courses should be selected in consultation with a mathematics advisor, from one of the tracks below.**

- Suggested electives include computer science courses, ENGL 335 and COMM 280.

**Residence Requirement:**

- ☐ Must be fulfilled by all transfer students (see p. 24)

**Required total hours for the degree:**

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

**Application for Degree**

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.



### Suggested Tracks in Mathematics

Note: All tracks begin with and must satisfy either the B.A. or B.S. requirements above. The tracks identify the most appropriate courses from which to select for a particular career goal. Courses marked with an asterisk (\*) do not count toward the 50 or 65 hours required for the major.

#### General Mathematics Track (preparation for graduate school):

MATH 310, 311, 320, 330, 350, 360, 365, 380.

#### Applied Mathematics Track (preparation for employment in industry or business): MATH 231, 260\*, 305, 310, 311, 350, 370; MASC 300\*

#### Integrated Mathematics Education Track (preparation for high school teaching):

Requirements for students seeking secondary teacher licensure in mathematics appear in the *Teacher Education Programs* booklet available from the Department of Education. Requirements for the major and for teacher licensure may differ, but both must be met for licensure and the major must be completed to receive a Bachelor's degree.

### Minor in Mathematics

#### Required :

- ☐ At least 30 total hours from among MATH 170, 180, 190, 200, 220, 230, 231, 260, 290 and any 300/400 level courses.

#### Residence Requirement:

- ☐ Must be fulfilled by all transfer students (see p. 24).

### B.S. degree with a major in Actuarial Science

#### Requirements in the Core Curriculum:

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 15 hrs (specifics on p. 15)
- ☐ Mathematics – fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p.16)
- ☐ Senior Year Experience – hrs depend upon course selected (specifics on p.16)

#### Requirements in the major (88 hours)

- |  |   |
|--|---|
| <input type="checkbox"/> MATH 170 – 5 hrs  | <input type="checkbox"/> C SC 100 – 3 hrs |
| <input type="checkbox"/> MATH 180 – 5 hrs  | <input type="checkbox"/> ECON 210 – 5 hrs |
| <input type="checkbox"/> MATH 190 – 5 hrs  | <input type="checkbox"/> ECON 220 – 5 hrs |
| <input type="checkbox"/> MATH 200 – 5 hrs  | <input type="checkbox"/> ACCT 200 – 5 hrs |
| <input type="checkbox"/> MATH 220 – 5 hrs  | <input type="checkbox"/> MASC 300 – 5 hrs |
| <input type="checkbox"/> MATH 230 – 5 hrs  | <input type="checkbox"/> MASC 400 – 5 hrs |
| <input type="checkbox"/> MATH 310 – 5 hrs  | <input type="checkbox"/> MASC 401 – 5 hrs |
| <input type="checkbox"/> MATH 311 – 5 hrs  | <input type="checkbox"/> MASC 402 – 5 hrs |
| <input type="checkbox"/> MASC 498 – 0 hrs  |   |
| <input type="checkbox"/> 10 hours from the following: any other MASC offerings, MATH 231/305/370, ECON 310/320/450, BADM 340/420 |   |
| • An internship ( <b>MASC 490</b> ) during the summer after the junior year or during the senior year is strongly encouraged.    |   |



*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **B.A. degree with a major in Computer Science**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 10 hrs (specifics on p. 15)
- ☐ Mathematics – fulfilled by completing the math required in the major
- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience – hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (80-85 hrs or equivalent)*

- |   |  |
|---|--|
| <input type="checkbox"/> C SC 100 – 3 hrs | <input type="checkbox"/> C SC 360 – 5 hrs  |
| <input type="checkbox"/> C SC 120 – 2 hrs | <input type="checkbox"/> C SC 400 – 2 hrs  |
| <input type="checkbox"/> C SC 150 – 5 hrs | <input type="checkbox"/> C SC 401 – 2 hrs  |
| <input type="checkbox"/> C SC 160 – 4 hrs | <input type="checkbox"/> C SC 498 – 0 hrs  |
| <input type="checkbox"/> C SC 205 – 4 hrs | <input type="checkbox"/> MATH 155* – 3 hrs |
| <input type="checkbox"/> C SC 225 – 4 hrs | <input type="checkbox"/> MATH 165 – 3 hrs  |
| <input type="checkbox"/> C SC 315 – 4 hrs | <input type="checkbox"/> COMM 280 – 5 hrs  |
| <input type="checkbox"/> C SC 325 – 4 hrs | <input type="checkbox"/> ENGL 335 – 5 hrs  |
- ☐ A minor in *Mathematics\*\**, Accounting, Economics, or Business Administration, or a minor in another field by approval of the department chair.

**\*\*** A minor in *Mathematics* for this program must consist of MATH 170, 180, 220, 230, and two of the following: MATH 190, 231, 260, 305, 370. (Only one of 260 and 370 may be included.)

**\*** MATH 115 or 120 is a prerequisite to MATH 155.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **B.S. degree with a major in Computer Science**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies – 50 hrs (specifics on p. 13)
- ☐ Foreign Language – 15 hrs (specifics on p. 15)
- ☐ Mathematics – fulfilled by completing the math required in the major



- ☐ Health and Physical Education Lifestyle Series – 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience – hrs depend upon course selected (specifics on p. 16)

*Requirements in the major (83-85 hrs or equivalent)*

- |   |  |
|---|--|
| <input type="checkbox"/> C SC 100 – 3 hrs | <input type="checkbox"/> C SC 400 – 2 hrs  |
| <input type="checkbox"/> C SC 120 – 2 hrs | <input type="checkbox"/> C SC 401 – 2 hrs  |
| <input type="checkbox"/> C SC 150 – 5 hrs | <input type="checkbox"/> C SC 415 – 4 hrs  |
| <input type="checkbox"/> C SC 160 – 4 hrs | <input type="checkbox"/> C SC 498 – 0 hrs  |
| <input type="checkbox"/> C SC 205 – 4 hrs | <input type="checkbox"/> MATH 155* – 3 hrs |
| <input type="checkbox"/> C SC 225 – 4 hrs | <input type="checkbox"/> MATH 165 – 3 hrs  |
| <input type="checkbox"/> C SC 315 – 4 hrs | <input type="checkbox"/> MATH 170* – 5 hrs |
| <input type="checkbox"/> C SC 325 – 4 hrs | <input type="checkbox"/> MATH 180 – 5 hrs  |
| <input type="checkbox"/> C SC 330 – 4 hrs | <input type="checkbox"/> MATH 220 – 5 hrs  |
| <input type="checkbox"/> C SC 340 – 4 hrs | <input type="checkbox"/> COMM 280 – 5 hrs  |
| <input type="checkbox"/> C SC 381 – 3 hrs | <input type="checkbox"/> ENGL 335 – 5 hrs  |

- ☐ one course from MATH 370 (5 hrs) or C SC 481 (3 hrs).

\*MATH 115 or 120 is a prerequisite to MATH 155. MATH 115/116 or 120 is a prerequisite to MATH 170.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **Minor in Computer Science**

*Required (at least 33 total hrs):*

- |   |   |
|---|---|
| <input type="checkbox"/> C SC 100 – 3 hrs | <input type="checkbox"/> C SC 160 – 4 hrs |
| <input type="checkbox"/> C SC 120 – 2 hrs | <input type="checkbox"/> C SC 205 – 4 hrs |
| <input type="checkbox"/> C SC 150 – 5 hrs | <input type="checkbox"/> MATH 155 – 3 hrs |

- ☐ 12 additional hours from among any other CSC courses numbered above 205.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24).

## **Program Outcome**

The department provides programs which may prepare students for graduate school in mathematics, actuarial science, computer science, or related disciplines; programs which may prepare students for employment as actuaries, statisticians, analysts, management scientists, and other mathematically related occupations; and programs which may prepare students for the teaching of high school mathematics. The Department provides to all Otterbein students opportunities for improving problem-solving skills through college level exposure in mathematics. It provides coursework which supports students from many other disciplines and provides remedial coursework which may prepare a student for college level work.



## Mathematics Courses (MATH)

Information about experimental courses, when offered, will be available at the office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491. To visit <http://math.otterbein.edu/dept/math/degrees/schedule/index.php> for mathematics major course rotation schedule.

Note: A graphing calculator is required for many Mathematics courses. Contact with the department for a recommendation if you are planning to purchase one.

**A student who has a C- or better or transfer credit for a mathematics or computer science course may not subsequently take any of its explicit or implied prerequisite courses for credit without permission of the department chairperson. Permission will be given only for sound curricular reasons.**

### ASC 080 BASIC CONCEPTS IN MATHEMATICS

This course is housed in the Academic Support Center. For a description, see the Academic Support Center website.

### MATH 090 PREREQUISITE TO COLLEGE MATHEMATICS

Intermediate algebra topics: sets, linear equations and inequalities in one and two variables, solving systems of linear equations, quadratic equations in one and two variables, graphing first and second degree equations, rational exponents, rational expressions, geometric figures, distance in the plane, circles, formulas, applications, connections among topics, and writing in mathematics. Note: a graphing calculator is required for this course. *Prereq:* A C- or better in ASC 080 or qualification through the department's placement examination. Students required to take this course must complete it with a C- or better within six quarters of enrollment or face suspension/dismissal. MATH 090 does not count towards graduation in any degree program. Thus, students who have taken this course must complete at least 185 hours to graduate.

### MATH 115 COLLEGE ALGEBRA

A study of polynomial, radical, exponential, and logarithmic functions and their graphs; solving equations and inequalities; and basic analytic geometry. *Prereq:* A C- or better in MATH 090, or qualification through the department's placement exam.

### MATH 116 TRIGONOMETRY AND COLLEGE ALGEBRA II

A study of rational functions and their graphs, trigonometric functions, identities, inverse trigonometric functions, trigonometric equations, solving triangles, complex numbers, and polar coordinate systems. *Prereq:* A C- or better in MATH 115 or qualification through the department's placement exam.

### MATH 120 ELEMENTARY FUNCTIONS

An accelerated combination of MATH 115 and MATH 116. This course is designed for more advanced students as preparation for calculus. *Prereq:* Qualification through the department's placement exam.



**MATH 150 THE NATURE OF MATHEMATICS**

5 hrs

A survey of many topics, viewed in a liberal arts context, providing a broad, diverse, yet more holistic and humanistic perspective toward mathematics. Topics may include problem solving, number theory, set theory, logic/reasoning, group theory, graph theory, probability, statistics, calculus, geometry, math and art or music, and history of mathematics. *Prereq: A C- or better in MATH 090 or qualification through the department's placement exam.*

**MATH 155 DISCRETE MATHEMATICS I**

3 hrs

Elementary logic and propositional calculus with quantifiers, proof techniques (including induction and contradiction, contraposition and counterexample), intuitive set theory, functions and relations. *Prereq: MATH 115 or MATH 120 or qualification through the department's placement exam.*

**MATH 165 DISCRETE MATHEMATICS II**

3 hrs

Graph theory including planarity, isomorphism, covering circuits, coloring, trees and searching, network algorithms; combinatorics including counting, permutations, combinations, binomial coefficients, recurrence relations, the pigeonhole principle, and the inclusion-exclusion principle. *Prereq: MATH 155*

**MATH 170 CALCULUS I**

5 hrs

Differential calculus of elementary functions. Topics covered include limits, continuity, derivatives, differentiation rules, Lagrange mean value theorem, L'Hospital's rule, and applications of differential calculus. *Prereq: A C- or better in both MATH 115 and MATH 116 or in MATH 120, or qualification through the department's placement exam.*

**MATH 180 CALCULUS II**

5 hrs

A continuation of Calculus I. Integral calculus of elementary functions. Topics covered include definite integrals, indefinite integrals, fundamental theorem of calculus, techniques of integration, and applications of integration. *Prereq: A C- or better in MATH 170.*

**MATH 190 CALCULUS III**

5 hrs

A continuation of Calculus II with emphasis on series theory. Topics covered include first order linear differential equations, conic curves, parametric equations and polar equations of curves, sequences and series, power series, Taylor series, and binomial series. *Prereq: A C- or better in MATH 180.*

**MATH 200 MULTIVARIABLE CALCULUS**

5 hrs

Calculus of multi-variable functions. Topics covered include three dimensional analytic geometry, vectors, limits, continuity, partial derivatives, multiple integrals, and elements of vector calculus. *Prereq: A C- or better in MATH 180. MATH 190 strongly recommended.*

**MATH 220 LINEAR ALGEBRA**

5 hrs

Systems of linearequations, vectorspaces, matrices, determinants, eigenvalues, eigenvectors, linear transformations, and applications. *Prereq: A C- or better in MATH 180.*



**MATH 230 STATISTICS I**

**5 hrs**

A study of descriptive statistics, the principles of probability, statistical distributions, sampling, the Central Limit Theorem, statistical inference, hypothesis testing, correlation, and regression analysis. *Prereq: MATH 115 or 120.*

**MATH 231 STATISTICS II**

**5 hrs**

A continuation of *MATH 230*. Emphasis on data analysis with simple and multiple linear regression, correlation, and analysis of variance. Statistical computer packages are used for data analysis. *Prereq: A C- or better in MATH 230.*

**MATH 260 DECISION MAKING FOR BUSINESS**

**5 hrs**

A study of operations research techniques for use in decision making. Includes linear programming, queuing theory, time series and other applications. *Prereq: MATH 230.*

**MATH 270 MATHEMATICS FOR EARLY AND MIDDLE CHILDHOOD  
EDUCATION**

**5 hrs**

A study of the mathematical notions central to a comprehensive, connected study of early into middle childhood mathematics education, grounded in state and national standards. The focus is on mathematical content: development of the real number system, probability and statistics, geometry, measurement, patterning and algebra, and estimation and mental computation. Methodology and materials appropriate for the mathematical development of children will also be discussed. For education majors and licensure candidates only. *Prereq: MATH 150.*

**MATH 271 MATHEMATICS FOR THE MIDDLE GRADES**

**3 hrs**

A continuation of *MATH 270*, focusing on the mathematical content and methodology in the middle grades. Particular emphasis will be placed on connections among and integration of the various mathematical strands (number and operations, geometry, measurement, probability and statistics), especially involving algebra. For education majors and licensure candidates only. *Prereq: MATH 270.*

**MATH 280 AXIOMATICS BY INQUIRY**

**3 hrs**

Focusing on the systemic structure of geometry, students investigate problems and properties from a scientific perspective. With the aid of technology and other tools, students will use the inquiry cycle (exploration, conjecture, data collection, analysis, reflection, and proof) to compare and contrast the basic principles that give rise to different geometries. *Prereq: A C- or better in MATH 150.*

**MATH 290 TRANSITION TO ADVANCED MATHEMATICS**

**3 hrs**

Logic, axiomatic method, mathematical proofs, and formal set theory. *Prereq: A C- or better in either MATH 190 or MATH 220.*

**MATH 300 MATHEMATICAL PROBLEM SOLVING SEMINAR**

**1 hr**

Through solving well-arranged, interesting and challenging problems in different areas of mathematics, students will enhance their mathematical maturity, will increase their repertoire of mathematical methodologies, will expand their ability, and will deepen their appreciation of the power, beauty and integrity of mathematics. Each time the



course is offered it will focus on two or three specific techniques or topics. **Graded pass/fail. The course may be repeated, however no more than 3 hours of this course may count toward a mathematics major and no more than 2 hours toward a mathematics minor.** *Prereq: A grade of B or better in MATH 180, or permission of the instructor.*

**MATH 305 APPLIED STATISTICS**

**5 hrs (alt. yrs.)**

This course introduces the applied statistical methods of regression analysis and time series, and application of the methods in estimation, prediction, and forecasting. *Prereq: MATH 180 and MATH 230.*

**MATH 310 PROBABILITY THEORY**

**5 hrs**

Calculus-based probability, samples, discrete and continuous distributions, and multivariate distributions. *Prereq: MATH 200, 220 and 230.*

**MATH 311 MATHEMATICAL STATISTICS**

**5 hrs (alt. yrs.)**

A continuation of MATH 310. Sampling distributions, approximations, estimation, hypothesis testing. *Prereq: MATH 310.*

**MATH 320 THEORY OF VECTOR SPACES**

**3 hrs (alt. yrs.)**

Finite and infinite dimensional vector spaces, linear operators with applications. *Prereq: MATH 220 and 290.*

**MATH 330 COMPLEX VARIABLES**

**5 hrs (alt. yrs.)**

Complex numbers, analytic functions, integrals, series, residues and conformal mapping. *Prereq: MATH 190, 200 and 220.*

**MATH 340 ADVANCED GEOMETRY**

**5 hrs (alt. yrs.)**

A general study of the structure of Euclidean and non-Euclidean geometries and their relationship to each other. *Prereq: MATH 290.*

**MATH 350 ORDINARY DIFFERENTIAL EQUATIONS**

**5 hrs (alt. yrs.)**

Fundamental theory, first order differential equations, linear equations, series solutions, Laplace transforms, boundary value problems, nonlinear equations and stability. *Prereq: MATH 190, 200 and 220.*

**MATH 360 REAL ANALYSIS**

**3 hrs (alt. yrs.)**

Structure and topology of real numbers, sequences, continuity, differentiation, Riemann integration, infinite series, power series, Riemann-Stieltjes integral. *Prereq: MATH 190 and 290.*

**MATH 365 TOPOLOGY**

**3 hrs (alt. yrs.)**

Metric spaces, limits and continuity in metric spaces, general topological spaces, connectedness, completeness, compactness. *Prereq: MATH 190 and 290.*

**MATH 370 OPERATIONS RESEARCH**

**5 hrs (alt. yrs.)**

Topics from deterministic and stochastic operations research: linear programming and other optimization methods including the simplex algorithm, duality, and sensitivity



analysis; decision theory, queuing theory, Markov chains, and simulation. *MATH 220 and MATH 230.*

### **MATH 380 ABSTRACT ALGEBRA**

5 hrs (a

Theory of groups, homomorphisms, rings, integral domains, fields, and factor  
*Prereq: MATH 290.*

### **MATH 390 INDEPENDENT STUDY**

Independent study. Opportunity for work in topics of special interest.

### **MATH 420 ADVANCED STUDIES**

Topics not covered in the regular departmental offerings. *May be repeated for*  
*Taken by permission of the instructor.*

### **MATH 435 HISTORY AND PHILOSOPHY OF MATHEMATICS**

A survey of the history and philosophy of mathematics with holistic attention to  
chronological evolution, conceptual development, and foundational structure.  
Mathematical landmarks from antiquity to present times will be examined and placed  
in historical context. Emphasis will be on the interrelationships between mathematics  
and culture, theology, philosophy, and science. *Prereq: Senior standing in mathematics*  
*major, or permission of instructors.*

### **MATH 480 SENIOR RESEARCH**

1-

Exploration of a topic in mathematics with faculty supervision over the course of  
the senior year. The research culminates in an expository paper and presentation of  
results (see *MATH 481*). All participating students and their advisors will meet at  
least once each quarter: in Autumn to share the focus, goals, and/or approach for  
each project; in Winter to discuss progress and common interests or concerns;  
in Spring for presentation (see *MATH 481*). Students must register for a total of 4  
credits of research over the span of the senior year. *Prereq: Senior standing in*  
*mathematics. May be repeated for a maximum of 4 credits.*

### **MATH 481 SENIOR EXPOSITION**

Culmination of the research done in *MATH 480*. Submission of expository paper and  
presentation of results. *Prereq: MATH 480.*

### **MATH 490 INTERNSHIP**

1-1

### **MATH 498 MATHEMATICS ASSESSMENT**

Students will complete the Mathematics Major Field Test (2 hour exam) prepared  
by the Educational Testing Service during their senior year. Each student will meet  
with her/his academic advisor to discuss results in relation to career goals. *Prereq:*  
*Senior standing.*

### **Actuarial Science Courses (MASC)**

Information about experimental courses, when offered, will be available at the request  
of the Registrar late in the Spring Quarter preceding the academic year in which the  
courses are scheduled. Such courses are numbered 191, 291, 391 or 491.



**MASC 300 FINANCIAL MATHEMATICS I**

**5 hrs (alt. yrs.)**

This course provides an understanding of the fundamental concepts of financial mathematics and the application of those concepts. Specific applications include calculating present and accumulated values for various streams of cash flows as a basis for future use in reserving, valuation, pricing, asset/liability management, investment income, capital budgeting and valuing contingent cash flows. *Prereq: MATH 180*

**MASC 301 FINANCIAL MATHEMATICS II**

**5 hrs\***

The purpose of this course is to explore the properties of derivative security that are commonly encountered in practice and to provide a theoretical framework within which all derivatives can be valued and hedged. *Prereq: MASC 300 and MATH 310.*

**MASC 400 ACTUARIAL MODELS I**

**5 hrs (alt. yrs.)**

This course begins to develop students' knowledge of the theoretical basis of actuarial models and application of those models to insurance and other financial risk. Topics include claim frequency models, claim severity models, survival models, life tables, Markov chains, and the Poisson process. *Prereq: MASC 300 and MATH 310*

**MASC 401 ACTUARIAL MODELS II**

**5 hrs (alt. yrs.)**

This course continues to develop students' knowledge of the theoretical basis of actuarial models and application of those models to insurance and other financial risk. Topics include life insurance models, life annuity models, benefit premiums, and benefit reserves. *Prereq: MASC 400*

**MASC 402 ACTUARIAL MODELS III**

**5 hrs (alt. yrs.)**

This course further develops students' knowledge of the theoretical basis of actuarial models and application of those models to insurance and other financial risk. Topics include multiple-life models, multiple-decrement models, collection risk models, and insurance models including expenses. *Prereq: MASC 401*

**MASC 410 SURVIVAL ANALYSIS**

**5 hrs\***

The purpose of this course is to introduce the nature and properties of survival models, including both parametric and tabular models; methods of estimating tabular models from both complete and incomplete data samples, including the actuarial, moment, and maximum likelihood estimation techniques; methods of estimating parametric models from both complete and incomplete data samples, including parametric models with concomitant variables; and applications and extensions of survival models. *Prereq: MASC 402.*

**MASC 411 CREDIBILITY AND LOSS DISTRIBUTIONS**

**5 hrs\***

Application of statistical theory to development and estimation of loss distributions; fitting distributions to truncated and grouped data; analysis of simulated data; classical, Bayesian, and Buhlmann credibility models for experience rating. *Prereq: MATH 311.*

**MASC 430 PROBLEM SOLVING IN ACTUARIAL SCIENCE**

**3 hrs**

Through solving problems from previous years' Actuarial Exams, students will be well-prepared for taking Examinations I (Mathematical Foundations of Actuarial



science) and II (Interest Theory, Economics, and Finance) administered by the Society of Actuaries of North America. This course may be repeated, however no more than six hours of this course may count toward an actuarial science major. *Prereq: A B or better in MATH 200 and MATH 220, or permission of instructor.*

**ASC 490 INTERNSHIP**

**5-15 hrs**

**ASC 498 ACTUARIAL SCIENCE ASSESSMENT**

**0 hrs**

Students will complete an Actuarial Examination administered by the Society of Actuaries during their senior year. Each student will meet with her/his academic advisor to discuss results in relation to career goals. *Prereq: Senior standing.*

*Indicates course offered as enrollment warrants.*

**Computer Science Courses (C SC)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491. Please visit <http://math.otterbein.edu/dept/math/cs/degrees/rotation/index.php> for computer science long-term course rotation.

**Any student who has a C- or better or transfer credit for a mathematics or computer science course may not subsequently take any of its explicit or implied prerequisite courses for credit without permission of the department chairperson. Permission will be given only for sound curricular reasons.**

**ASC 100 COMPUTING CONCEPTS AND APPLICATIONS**

**3 hrs**

*Lecture and Laboratory*

An introduction to computers and computer software in a liberal arts context, including historical roots, ethical issues, and future directions. Hands-on laboratory experience and web-based training in software applications, including word processing, graphics, spreadsheets, and web authoring. Includes introduction to algorithm development and programming. *Prereq or Coreq: MATH 090 or qualification through the department's mathematics placement exam.*

**ASC 120 INTRODUCTION TO COMPUTER PROGRAMMING**

**2 hrs**

*Lecture and Laboratory*

The student will create implementations based on stated requirements. The imperative language constructs of variables, arrays, assignment, sequence, selection and iteration will be used. The student is introduced to system design by working within larger systems in which they implement components. *Prereq or coreq: C SC 100 and MATH 115 (or MATH 120).*

**ASC 121 PROGRAMMING LANGUAGE INSTRUCTION**

**2 hrs**

*Lecture and Laboratory*

Instruction in a specific computer programming language. Offered on demand. Decimal numbers used to distinguish specific language: C SC 121.01 for Pascal; C SC 121.02 for COBOL; C SC 121.03 for C; C SC 121.04 for C++; C SC 121.05



for FORTRAN, C SC 121.06 for LISP, and others as needed.) *Prereq: C SC 120 or permission of instructor.*

### **C SC 150 THE SCOPE OF COMPUTER SCIENCE**

**5 hrs**

#### *Lecture and Laboratory*

A breadth-first overview of computer science, i.e., the study of algorithms, including their formal and mathematical properties, hardware realizations, linguistic realizations, and applications. The concept of levels of abstraction is presented through discussions of data representation (machine level representation through data types) and data manipulation (digital logic, assembly level machine organization, programming languages, formal grammars, and automata). *Prereq: C SC 100, C SC 120, and a C- or better in MATH 115 (or MATH 120) or qualification through the department's placement exam. Prereq or coreq: MATH 155.*

### **C SC 160 SOFTWARE DEVELOPMENT, USING COMPONENTS**

**4 hrs**

#### *Lecture and Laboratory*

The problem-solving principles of top-down design, iterative refinement, and procedural abstraction are introduced. Component-based software from client programmer's perspective (e.g., usage of abstract data types); intellectual foundations of software engineering; mathematical modeling; specification of object-oriented components; layering; testing and debugging layered operations. *Prereq: C SC 150. Prereq or coreq: MATH 165 (recommended).*

### **C SC 205 IMPLEMENTATION OF SOFTWARE COMPONENTS**

**4 hrs**

#### *Lecture and Laboratory*

Component-based software from implementer's perspective; container components, including lists, stacks, queues, trees, and graphs; data representation using layering and using pointers; introduction to algorithm analysis. *Prereq: C SC 160, MATH 165 (recommended).*

### **C SC 225 SOFTWARE ENGINEERING: DESIGN OF COMPONENT-BASED SOFTWARE**

**4 hrs**

#### *Lecture and Laboratory*

Bridging from analysis to implementation, this course studies how to decompose a proposed system so that it can be implemented in a reliable and cost effective manner. Object-oriented design of component-based software is emphasized, and we will utilize CASE tools to document the design. The relationship between component design and component implementation will also be explored. *Prereq: C SC 205, MATH 165 (recommended).*

### **C SC 315 PROGRAMMING LANGUAGES AND PARADIGMS**

**4 hrs**

#### *Lecture and Laboratory*

A study of the principles of programming languages. Programming paradigms are introduced and compared (imperative, declarative, object-oriented, functional, database languages). The topics of virtual machines, sequence control, data control, and type checking are introduced and compared across programming paradigms. Several programming languages are studied in the context of the different paradigms. *Prereq: C SC 205, MATH 165.*



**C SC 325 SOFTWARE ENGINEERING: ANALYSIS**

**4 hrs**

*Lecture and Laboratory*

Object-oriented analysis and its place in the development life cycle. Analysis comprises: building the requirements model, the object model (including entity relationships), the State Transition Diagram model, and the functional model (Data Flow Diagram).

*Prereq: C SC 225, MATH 165 (recommended).*

**C SC 330 COMPUTER ARCHITECTURE**

**4 hrs**

*Lecture and Laboratory*

The study of computer architectures. Computer design at all levels of abstraction is presented to an intermediate depth. Assembly language and interrupt handling are introduced. Alternative computer architectures are compared. *Prereq: C SC 205.*

**C SC 340 OPERATING SYSTEMS**

**4 hrs**

*Lecture and Laboratory*

Introduction to the principles, design, and functions of computer operating systems. Emphasis on process management and processor, memory and file management.

*Prereq: C SC 205.*

**C SC 360 DATABASE MANAGEMENT AND DATA WAREHOUSING**

**5 hrs**

*Lecture and Laboratory*

Design and implementation of operational database systems using relational database technology, including entity-relationship modeling and normalization. Introduction to data warehouse development, facilitating the analysis of historical and summary data derived from operational databases. *Prereq: C SC 205, or both BADM 360 and Information Management major program prerequisites.*

**C SC 381 THEORY OF COMPUTATION**

**3 hrs**

Models of computation based on machine models and formal grammars: finite automata; regular languages, pushdown automata, context free languages, Turing machines, recursive languages, and recursively enumerable languages; the Chomsky hierarchy of languages; the Church-Turing thesis; introduction to the halting problem and computability issues. *Prereq: C SC 205 and MATH 165.*

**C SC 390 INDEPENDENT STUDY**

**1-5 hrs**

Independent study in computer science. Counts toward the 3 hours of advanced C SC courses required for the BS major. *Prereq: vary with topic; permission of instructor.*

**C SC 400 PROGRAMMING PRACTICUM I**

**2 hrs**

*Lecture and Laboratory*

Problem solving using computers. Reinforcement of the computer science curriculum's topics through hands on experience. Focuses on group problem-solving skills. *Prereq: C SC 325, COMM 280, and ENGL 335.*

**C SC 401 PROGRAMMING PRACTICUM II**

**2 hrs**

*Lecture and Laboratory*

A continuation of C SC 400. *Prereq: C SC 400.*



### **C SC 415 COMPLEXITY OF ALGORITHMS**

4 hrs

*Lecture and Laboratory*

Analysis of algorithm complexity; time and space analysis of algorithms, asymptotic (big-Oh) notation, and time-space tradeoffs in comparative analysis. Problem-solving strategies introduced by selected example, including greedy, divide-and-conquer, dynamic programming, and backtracking strategies. The concept of computational complexity is discussed by way of the theory of NP-completeness. *Prereq:* C SC 205, MATH 165, and MATH 170.

### **C SC 481 ADVANCED TOPICS**

3 hrs

Topics rotate. *May be repeated for credit.* One or two of the following offered annually.

#### **C SC 481.10 ARTIFICIAL INTELLIGENCE**

Knowledge representation, automated reasoning, and machine learning. Predicate logic, production rules, version spaces, and slot-and-filler structures are introduced as knowledge representation schemes. Automated reasoning using deduction, forward and backward chaining, and analogy are presented. Machine learning topics include induction, explanation-based learning, neural net algorithms, and genetic algorithms. Additional subjects involve problem spaces, heuristic search, game playing, expert systems, planning and natural language processing. *Prereq:* C SC 381.

#### **C SC 481.20 COMPUTER NETWORKING**

Local area networks, client hardware and software, server hardware and software, network applications software, the Internet and TCP/IP. *Prereq:* C SC 205, MATH 165

#### **C SC 481.30 INTRODUCTION TO COMPUTER GRAPHICS**

Introduction to display hardware and applications, interactive techniques, 2D scan conversion, 2D and 3D transformations, clipping, 3D viewing, visible surface algorithms, and illumination models. *Prereq:* C SC 415, MATH 220.

#### **C SC 481.40 SPECIAL TOPICS IN COMPUTER SCIENCE**

The presentation of an advanced computer science topic. Possible topics include compiler design, machine learning, and operating systems. *May be repeated for credit.* *Prereq:* vary with topic; permission of the instructor.

### **C 490 INTERNSHIP**

1-15 hrs

### **498 COMPUTER SCIENCE ASSESSMENT**

0 hrs

Students will complete the Computer Science Major Field Test (2 hour exam) prepared by Educational Testing Service during their senior year. Each student will meet with his/her academic advisor to discuss results in relation to career goals. *Prereq:* standing.



# Music

*Johnson (chairperson), Barkhymer, Bates, Chivington, Davenport, Eckenroth, Haberkorn, McCutcheon, Underwood, Walker.*

## Mission and Programs

The Department of Music consists of ten full-time faculty members, approximately 45 part-time faculty members, and several administrative staff members. The mission of the Department of Music is to develop professional musical competencies, as well as a deep appreciation of music, that students can later utilize in music careers or a life-long enjoyment of the art. All students in the music program should gain a broad knowledge and appreciation of important music within historical, cultural, and global contexts; achieve proficiency in aural, reading, and keyboard skills; learn music theory and apply that learning to critical analysis and musical creation; and develop expertise as solo and ensemble performers. The Department strives to foster a community of musicians who care about music for the aesthetic and affective richness that it brings to the world, and conversely, who value their knowledge of the world and its relationship to music.

The department offers a Bachelor of Arts in Music; a Bachelor of Music Education; a Bachelor of Music in Performance; a Bachelor of Fine Arts in Musical Theatre (jointly with the Department of Theatre and Dance); and a music minor. It is also possible to create an individualized major within the B.A. degree track.

The Department of Music is an accredited institutional member of the National Association of Schools of Music (NASM).

Acceptance to the department for all, including beginning, transfer, or continuing studies students, is by audition, and continuation is determined by jury exams and the results of the sophomore conference to be held normally at the end of the fifth quarter of study, but in no case later than the first quarter of the junior year. In addition, a short advisory conference is held at the end of each music student's freshman year.

The sophomore conference is an interview with the full-time faculty and the student's adjunct music instructor, if applicable. The student will present a brief performance in the principal performing medium. Following will be a discussion of the dossier containing the student's self-evaluation, academic transcript, Department of Music activities' record, studio teacher's evaluation, and other appropriate materials. The results of the sophomore conference may be 1) continuation, 2) continuation on probation with specified deficiencies to be remedied and demonstrated at a reexamination, 3) continuation but with a change of degree program or curricular emphasis or 4) non-continuation in the music program.

A minimum grade of "C" is required in all music courses. If a grade lower than "C" is earned in any music course, the course must be repeated in order to count toward the major. Should that course be a pre-requisite for subsequent coursework, the student must earn a grade of "C" or better in the pre-requisite course before continuing with the subsequent coursework.

Candidates for all degree programs must play or sing creditably in regular recitals of the department and participate in one or more of the campus major musical ensembles during each quarter they are enrolled as associated with their principal instrument(s), or specified by their degree program. In addition, students who receive talent or music



participation awards may have additional ensemble requirements.

Students must register for Piano Class or Applied Piano until the Piano Proficiency Exam is passed. MUSC 105 and 151 are also required if not proficient. The departmental handbook has additional specific curricular information. A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **B.A. degree with a major in Music**

### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 310 or 330 must be selected)
- ☐ Foreign Language - 10 hrs (at 110-499 level from same language); students may proficiency
- ☐ Mathematics - 5 hrs (specifics on p. 16); select MATH 115 if pursuing the Music and Business concentration
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)

### *Requirements in the major (70 or more hrs):*

- |  |   |
|--|---|
| <input type="checkbox"/> MUSC 104 - 1 hr           | <input type="checkbox"/> MUSC 201 - 1 hr  |
| <input type="checkbox"/> MUSC 115 - 10 quarters    | <input type="checkbox"/> MUSC 210 - 3 hrs |
| <input type="checkbox"/> MUSC 120 OR 462 - 3 hrs*  | <input type="checkbox"/> MUSC 211 - 1 hr  |
| <input type="checkbox"/> MUSC 130 OR 463 - 3 hrs** | <input type="checkbox"/> MUSC 220 - 3 hrs |
| <input type="checkbox"/> MUSC 150 - 2 hrs          | <input type="checkbox"/> MUSC 221 - 1 hr  |
| <input type="checkbox"/> MUSC 160 - 3 hrs          | <input type="checkbox"/> MUSC 260 - 2 hrs |
| <input type="checkbox"/> MUSC 161 - 1 hr           | <input type="checkbox"/> MUSC 262 - 2 hrs |
| <input type="checkbox"/> MUSC 170 - 3 hrs          | <input type="checkbox"/> MUSC 340 - 4 hrs |
| <input type="checkbox"/> MUSC 171 - 1 hr           | <input type="checkbox"/> MUSC 350 - 4 hrs |
| <input type="checkbox"/> MUSC 200 - 3 hrs          | <input type="checkbox"/> MUSC 360 - 4 hrs |

\*Waived if performance area is voice

\*\*Waived if performance area is piano

One of the following concentrations is also required:

### **1. Liberal Arts Studies in Music**

- ☐ MUSC 460s/470s in one performance area - 12 hrs (must enroll each quarter)
- ☐ Music electives - 13 hrs (no more than 6 of these from ensembles)

### **2. Interdisciplinary Program in Music and Business**

- ☐ MUSC 215 - 2 hrs
- ☐ MUSC 460s/470s in one performance area - 12 hrs (must enroll each quarter, internship excepted)
- ☐ MUSC 490 - 1 - 5 hrs (to be taken before the senior year)

Students must select one of the following minors:

- ☐ A minor in Arts Administration - 30 hrs : ART 135, ACCT 200, ECON 210, BADM 300 or 310, BADM 340, MUSC 490 (5 - 15 hrs to be taken in the senior year)
- ☐ A minor in Audio Production - 30 hrs : ACCT 200, BADM 340, ECON 210, MCOM 110, MUSC 285, MUSC 385, MUSC 450-21/22 Electro-AcousticWorkshop (0 - 1 hr) and THR 460 (2 hrs)



- ☐ A minor in Business Administration - refer to p. 62.

### 3. Jazz Studies (25 hrs)

- ☐ MUSC 274 - 2 hrs ☐ MUSC 278 - 2 hrs  
☐ MUSC 276 - 2 hrs ☐ MUSC 377 - 2 hrs  
☐ MUSC 450's (jazz ensembles; no fewer than 3 quarters) - 0 to 3 hrs  
☐ MUSC 460s/470s in one performance area - 12 hrs (must enroll each quarter)  
☐ Remaining hours to reach 25 from among MUSC 276 (repeatable to 6 hrs), 378, 379 and 460s/470s (must be instrumental jazz)

### 4. Music History and Literature (25 hrs)

- ☐ MUSC 460s/470s in one performance area - 12 hrs (must enroll each quarter)  
☐ MUSC 497 - 2 hrs ☐ MUSC 498 - 1 hr  
☐ Remaining hours to reach 25 from among MUSC 265, 266, 312, 335, 338, 339, 377, 378, 410, 412, 440 and 447

### 5. Music Theory and Composition (25 hrs)

- ☐ MUSC 280 - 2 hrs ☐ MUSC 497 - 2 hrs  
☐ MUSC 285 - 2 hrs ☐ MUSC 498 - 1 hr  
☐ MUSC 447 - 2 hrs  
☐ MUSC 460s/470s in one performance area - 12 hrs (must enroll each quarter)  
☐ Remaining hours to reach 25 from among MUSC 277, 278, 378, 448, and 450-21/22 (Electro-Acoustic Workshop).

#### *Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

#### *Required total hours for the degree:*

- ☐ At least 180 (also see exceptions/additional comments on p. 24)

#### *Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

## **B.M.E. degree with a major in Music Education**

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 130 and either 310 or 330 must be selected)  
☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)  
☐ Senior Year Experience - fulfilled by completing the Senior Year Experience Seminar (EDUC 410) required in the major

#### *Requirements in the major (137 hrs or equivalent):*

##### 1. Required Music Core Courses

- |  |   |
|--|---|
| <input type="checkbox"/> MUSC 115 - 10 quarters    | <input type="checkbox"/> MUSC 205 - 2 hrs |
| <input type="checkbox"/> MUSC 120 OR 462 - 3 hrs*  | <input type="checkbox"/> MUSC 210 - 3 hrs |
| <input type="checkbox"/> MUSC 130 OR 463 - 3 hrs** | <input type="checkbox"/> MUSC 211 - 1 hr  |
| <input type="checkbox"/> MUSC 150 - 2 hrs          | <input type="checkbox"/> MUSC 220 - 3 hrs |
| <input type="checkbox"/> MUSC 160 - 3 hrs          | <input type="checkbox"/> MUSC 221 - 1 hr  |
| <input type="checkbox"/> MUSC 161 - 1 hr           | <input type="checkbox"/> MUSC 260 - 2 hrs |
| <input type="checkbox"/> MUSC 170 - 3 hrs          | <input type="checkbox"/> MUSC 340 - 4 hrs |
| <input type="checkbox"/> MUSC 171 - 1 hr           | <input type="checkbox"/> MUSC 350 - 4 hrs |
| <input type="checkbox"/> MUSC 200 - 3 hrs          | <input type="checkbox"/> MUSC 360 - 4 hrs |
| <input type="checkbox"/> MUSC 201 - 1 hr           |   |



\*Waived if performance area is voice

\*\*Waived if performance area is piano

2. Required Music Education Courses

- |   |   |
|---|---|
| <input type="checkbox"/> MUSC 262 - 2 hrs | <input type="checkbox"/> MUSC 375 - 4 hrs               |
| <input type="checkbox"/> MUSC 264 - 2 hrs | <input type="checkbox"/> MUSC 380 - 4 hrs               |
| <input type="checkbox"/> MUSC 290 - 2 hrs | <input type="checkbox"/> MUSC 450s - at least 4 credits |
| <input type="checkbox"/> MUSC 295 - 2 hrs | <input type="checkbox"/> MUSC 460s/470s - 22 hrs        |
| <input type="checkbox"/> MUSC 300 - 2 hrs | <input type="checkbox"/> MUSC 493 - every term except   |
| <input type="checkbox"/> MUSC 305 - 2 hrs | when student teaching                                   |
| <input type="checkbox"/> MUSC 370 - 4 hrs |   |

3. Required Professional Education Courses

- |  |   |
|--|---|
| <input type="checkbox"/> COMM 100 - 5 hrs        | <input type="checkbox"/> EDUC 410 Student Teaching - 15 hrs |
| <input type="checkbox"/> EDUC 160 - 4 hrs        | <input type="checkbox"/> EDUC 410 Senior Year Experience    |
| <input type="checkbox"/> EDUC 200 - 5 hrs        | Seminar - 1 hr  |
| <input type="checkbox"/> EDUC 360 or 365 - 2 hrs | <input type="checkbox"/> EDUC 450 - 3 hrs                   |
| <input type="checkbox"/> EDUC 380 - 4 hrs        | <input type="checkbox"/> MATH 115 or 150 - 5 hrs            |

- Instrumentalists such as pianists, guitarists, and bass guitarists must participate in major ensembles, completing four years in either a vocal or instrumental major ensemble.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180, but typically closer to 195 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office two terms prior to the term in which the degree is to be completed.

**Music Education Teacher Licensure (Pre-K to 12):** Requirements for students seeking Music Education teacher licensure are listed in the Teacher Education Programs handbook available in the Education Department. Requirements for the music education major and teacher licensure may differ somewhat, but both must be met to become licensed and the major must be completed to receive a Bachelor's degree. To be recommended for teacher licensure, a student must have a cumulative grade point average of 2.5 or better, have a 2.5 grade point average in the teaching area, be in good standing with the Education Department, have positive recommendations from student teaching, and have successfully passed the appropriate Praxis II exams.

**B.MUS. degree with a major in Performance**

*Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13); INST 310 or 330 must be selected
- ☐ Foreign Language - 10 hrs (at 110-499 level from same language; proficiency from orientation placement exam not permitted)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - MUSC 495, a course required in the major, satisfies this requirement



*Requirements in the major (126 hrs or equivalent):*

## Required Music Core courses:

- |  |   |
|--|---|
| <input type="checkbox"/> MUSC 104 - 1 hr           | <input type="checkbox"/> MUSC 211 - 1 hr            |
| <input type="checkbox"/> MUSC 115 - 10 quarters    | <input type="checkbox"/> MUSC 220 - 3 hrs           |
| <input type="checkbox"/> MUSC 120 OR 462 - 3 hrs*  | <input type="checkbox"/> MUSC 221 - 1 hr            |
| <input type="checkbox"/> MUSC 130 OR 463 - 3 hrs** | <input type="checkbox"/> MUSC 260 - 2 hrs           |
| <input type="checkbox"/> MUSC 150 - 2 hrs          | <input type="checkbox"/> MUSC 262 - 2 hrs           |
| <input type="checkbox"/> MUSC 160 - 3 hrs          | <input type="checkbox"/> MUSC 264 - 2 hrs           |
| <input type="checkbox"/> MUSC 161 - 1 hr           | <input type="checkbox"/> MUSC 285 - 2 hrs           |
| <input type="checkbox"/> MUSC 170 - 3 hrs          | <input type="checkbox"/> MUSC 340 - 4 hrs           |
| <input type="checkbox"/> MUSC 171 - 1 hr           | <input type="checkbox"/> MUSC 350 - 4 hrs           |
| <input type="checkbox"/> MUSC 200 - 3 hrs          | <input type="checkbox"/> MUSC 360 - 4 hrs           |
| <input type="checkbox"/> MUSC 201 - 1 hr           | <input type="checkbox"/> MUSC 451-21/22 - 0 or 1 hr |
| <input type="checkbox"/> MUSC 210 - 3 hrs          | (Electro-Acoustic Workshop)                         |

\*Waived if performance area is voice

\*\*Waived if performance area is piano

## Required Performance Area courses:

- ☐ MUSC 480's - 44 hrs (4 hrs per quarter for 11 quarters)
- ☐ MUSC 310 and 312 (for pianists) - 4 hrs
- or-
- ☐ MUSC 405 and either 400, 402, 404, 410 or 412 (for singers) - 4 hrs
- or-
- ☐ MUSC 315 and 415 (instrumentalists) - 4 hrs

## Required Electives:

- ☐ MUSC electives - 24 hrs (no more than 11 of these hours from ensembles)

## Required Senior Recital:

- ☐ MUSC 495 - 5 hrs
- The BMUS curriculum requires intensive energy, preparation and dedication to the applied music performance area. **Students may not double major, but may pursue a minor with departmental approval. Students may not enroll for more than 18 hours per quarter.**

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree*

- ☐ At least 180, but more typically closer to 186 (also see exceptions/additional comments on p. 24)

*Application for Degree*

- ☐ A prospective graduate must request an Application for Degree at the Registrar's Office 2 terms prior to the term in which the degree is to be completed.

***B.F.A. degree with a major in Musical Theatre***

See Department of Theatre and Dance for requirements.

***Minor in Music****Required (at least 25 total hrs):*

- ☐ MUSC 105 - 2 hrs



- ☐ MUSC 151 - 1 hr
- ☐ MUSC 335, 338 or 339 - 5 hrs
- ☐ at least one year of MUSC 460's or 470's - 3 hrs or more
- ☐ ensemble participation for at least three terms - 0 to 3 hrs
- ☐ remaining hours to reach 25 from any other MUSC courses
- No audition is needed to be accepted as a music minor.
- Many music courses have prerequisites.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

## **Program Outcomes**

The **Bachelor of Arts** program offers broad, flexible coverage of the music field, and is easily combinable with other majors and minors, making the degree an attractive option for liberal arts students who want to pursue many options during their years at the College. The program may qualify students to apply for graduate study in music.

The **Music/Business Interdisciplinary** program consists of a major in music and a minor in arts administration, audio production or business administration. Internships are arranged with the adviser, locally or further afield. Possibilities include music retail and manufacturing establishments; recording companies; arts production, management and funding agencies; museums; theme parks; and many others. The program may qualify the student to work professionally in the same field in which he/she completed the internship (or in another related field), or to pursue graduate work in music and business or in another arts degree track.

The **Bachelor of Music Education** program leads to Music Multi-Age licensure and prepares students for teaching instrumental and vocal music in the public and private schools, grades PreK-12. The program also may qualify the student to apply for graduate study in music or music education.

The **Bachelor of Music in Performance** puts primary emphasis on the skills, concepts, and sensitivities essential to the life of the performing musician. The program may qualify students for graduate school in music performance, or for studio teaching and performing locally, regionally or nationally.

## **Music Courses (MUSC)**

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### **MUSC 101 FUNDAMENTALS OF MUSIC I**

3 hrs

The first quarter of a three-quarter sequence of basic music fundamentals courses for musical theatre majors only. Emphases on practical music theory, sight singing, and piano necessary for the musical theatre major to successfully negotiate the musical theatre repertoire. Meets in the piano lab. *Open to freshmen musical theatre majors only.*

### **MUSC 102 FUNDAMENTALS OF MUSIC II**

3 hrs

A continuation of Fundamentals of Music I. *Prereq: MUSC 101.*



**MUSC 103 FUNDAMENTALS OF MUSIC III****3 hrs**

A continuation of Fundamentals of Music I and II. *Prereq: MUSC 102.*

**MUSC 104 FOUNDATIONS IN MUSIC****1 hr**

The course offers BA and BMUS music majors the opportunity to begin to make connections between their music study, the total academic program, and post undergraduate activities. This class will also provide these students a setting in which to share their perceptions about their intended profession; this process will in turn create a supportive atmosphere to ease the transition from high school to college, and eventually, to the workplace. *Only open to BA in Music and BMUS in Performance majors only.*

**MUSC 105 INTRODUCTION TO MUSIC THEORY****2 hrs**

The vocabulary and notation of music: scales, key signature, intervals, and triads. *Open to non-music majors with permission of chairperson.*

**MUSC 115 CONCERT ATTENDANCE****0 hrs**

Hearing live performance is an essential component of improving musicianship. This course provides music majors with a broad exposure to live musical performances. In addition, this course is important as a means of providing audience support for programming in the Department of Music and the community. Through this course concert etiquette also will be reinforced. During each quarter music students will be required to attend five performances selected from the Department of Music Concert Calendar (one of the five may be off campus, but must be approved) and eight "Thursdays in Battelle" programs; students must complete 10 quarters of MUSC 115.

**MUSC 120 VOICE CLASS****1 hr (three terms)**

Beginning course in vocal techniques and song literature; required of all students unable to satisfy audition for studio instruction. Course must be repeated for total of three credits. Credit will not count unless sequence of three courses is completed in a single academic year - exceptions will be made only for students who show sufficient progress and are placed in MUSC 462 after one or two terms.

**MUSC 130 PIANO CLASS****1 hr (three terms)**

Sequence of classes in piano playing fundamentals; required of all music majors unable to satisfy audition for studio instruction. These fundamentals include technique, sight reading, harmonization, improvisation, choral and instrumental score reading, and the preparation of repertoire at the elementary to early intermediate level. Course must be repeated for a total of three credits and the sequence of three courses must be completed in a single year for the credit to apply. Exceptions to this requirement will be made only for those students who place into a succeeding higher level of piano class, MUSC 463, 473 or 483. Registration in piano class or studio instruction must be maintained until the student has passed the Piano Proficiency Test. Information about the test is available from the Coordinator of Class Piano Instruction.

**MUSC 140 GUITAR CLASS****1 hr**

Beginning course in guitar techniques and literature; required of students unable to satisfy audition for studio instruction.



**MUSC 150 INTRODUCTION TO MUSIC**

3 hrs

An introductory music course with a global music perspective. *Open to non-majors with permission of chairperson.*

**MUSC 151 EAR TRAINING AND SIGHT SINGING**

1 hr

Basic ear training and sight singing using solfege syllables (movable "do"). Classroom and laboratory instruction using computer-assisted ear-training programs. *To be taken in conjunction with MUSC 105 and/or 150.*

**MUSC 160 THEORY I: DIATONIC HARMONY**

3 hrs

Diatonic theory course which includes the study of cadences, non-harmonic tones, melody, texture, voice leading in two and four voices, harmonic progression and various chord structures. Basic compositional skills and music notation software will be included. *Prereq: Placement exam or MUSC 105.*

**MUSC 161 EAR TRAINING AND SIGHT SINGING**

1 hr

Continuation of MUSC 111. To be taken in conjunction with MUSC 160.

**MUSC 170 THEORY II: CHROMATIC HARMONY**

3 hrs

Chromatic theory course which includes the study of modulation, secondary dominants and other chromatic chord structures, and two- and three-part forms. A basic composition project is included. *Prereq: Placement exam or MUSC 160.*

**MUSC 171 EAR TRAINING AND SIGHT SINGING**

1 hr

Continuation of MUSC 161. To be taken in conjunction with MUSC 170.

**MUSC 200 THEORY III: 18TH CENTURY STYLES**

3 hrs

Styles of the Late Renaissance through the 18th Century: Late Renaissance Polyphony, 18th Century Counterpoint, Fugue, Variation Technique, Harmony. Composition projects will be included. *Prereq: MUSC 170.*

**MUSC 201 EAR TRAINING AND SIGHT SINGING**

1 hr

Continuation of MUSC 171. To be taken in conjunction with Music 200.

**MUSC 205 INTRODUCTION TO MUSIC EDUCATION TECHNOLOGY**

2 hrs

Introduction to the historical, theoretical, and pedagogical rationale underlying the use of media and technology in the music teaching/learning process. Includes experience with the four major types and uses of technology by music teachers and students: administrative/communication, preparing teaching materials, leading class activities, and student uses of technology. 25 clock hours of clinical experience are included. *Prereq: EDUC 160 or permission of instructor. Teacher candidates must achieve a grade of "C" or better.*

**MUSC 210 THEORY IV: 19TH CENTURY STYLES**

3 hrs

Styles of the 19th Century: Sonata and Rondo Forms, Character Pieces, Lieder, Harmony. Composition projects will be included. *Prereq: MUSC 200.*



**MUSC 211 EAR TRAINING AND SIGHT SINGING****1 hr**

Continuation of MUSC 201. To be taken in conjunction with Music 210.

**MUSC 215 LEGAL ISSUES IN MUSIC****2 hrs**

A course which covers major legal principles that affect the performing arts, primarily music, but also providing information related to theater, movies, broadcasting, publishing and the internet.

**MUSC 220 THEORY V: 20TH AND 21ST CENTURY STYLES****3 hrs**

Styles of the 20th and 21st Centuries: Post-Romanticism, Impressionism, Primitivism, Neoclassicism, Pandiatonicism, Set Theory, Serialism, Indeterminacy, Electronic and Computer Music, Minimalism. Composition projects will be included. *Prereq: MUSC 210.*

**MUSC 221 EAR TRAINING AND SIGHT SINGING****1 hr**

Continuation of MUSC 211. To be taken in conjunction with Music 220.

**MUSC 260 BASIC CONDUCTING****2 hrs**

Baton techniques, score reading and basic rehearsal procedures for both choral and instrumental music. *Prereq: MUSC 170*

**MUSC 262 INTERMEDIATE CONDUCTING****2 hrs**

A continuation of conducting techniques with emphases in the areas of choral and instrumental rehearsal procedures. *Prereq: MUSC 260.*

**MUSC 264 ADVANCED CONDUCTING****2 hrs**

Advanced conducting techniques and score preparation. Final conducting projects in the student's specific areas of expertise are required. *Prereq: MUSC 262.*

**MUSC 265 SPECIAL TOPICS IN INSTRUMENTAL LITERATURE** **2 hrs**

This is a seminar course designed to provide a more in-depth study of a topic area than the Music History and Literature survey course. The subject matter offered in this course will rotate annually through such topics as Wind Band Literature, Orchestral Literature, The History of Chamber Music, and other instrumental genre specific areas of musical development. Readings, listening and bibliography appropriate to the area will be required. A significant research or analysis project in the area of study will be one required outcome. *Prereq: MUSC 170*

**MUSC 266 SPECIAL TOPICS IN WORLD MUSIC****2 hrs**

This is a seminar course designed to provide a more in-depth study of a specific topic concerned with World Music. The subject matter offered in this course will be determined by available teaching expertise and is designed to change with each offering. Readings, listening and bibliography appropriate to the area will be required. A significant research or analysis project in the area of study will be one required outcome. *Prereq.: MUSC 170*



**MUSC 270 MUSIC FOR THE CLASSROOM TEACHER**

4 hrs

Includes music reading, practical keyboard, guitar playing, recorder playing, and rudimentary conducting, with laboratory experiences in the use of music, methods, and materials representing diverse cultures for early childhood and elementary classrooms. *Not open to music majors.*

**MUSC 274 JAZZ FUNDAMENTALS I**

2 hrs

This course focuses on the understanding of jazz theory and its connection to improvisation through the study of harmony, chord and scale functions, form, rhythm, meter, and articulation as they relate to the jazz idiom. *Prereq: Music 170*

**MUSC 276 JAZZ STYLES AND IMPROVISATION**

1 or 2 hrs

A course designed to give students a basic performance knowledge of jazz styles and improvisation. Through aural training and the study of modes, blues scales and jazz patterns, students will learn to improvise on their major instrument. *Prereq: MUSC 274. May be repeated for a maximum of 6 credits.*

**MUSC 278 JAZZ FUNDAMENTALS II**

2 hrs

This course focuses on aural skills, transcription methods, and advanced jazz harmony topics. Extended functional harmony will be studied in depth, and advanced rhythmic concepts will be explored. Course topics will be introduced through examples found in transcribed solos by established jazz masters. *Prereq: Music 274*

**MUSC 280 BEGINNING COMPOSITION**

2 hrs

Principles and techniques of composition in small forms for various media. *Prereq: MUSC 220 or permission of instructor.*

**MUSC 285 ELECTRONIC MUSIC STUDIO**

2 hrs

An introduction to artistic applications of electronic music including sound design, audio, and MIDI recording/sequencing techniques; and digital musique concrete and interactive electro-acoustic performance techniques using Max/MSP. *Prereq: Two terms of theory or permission of instructor. May be repeated for a maximum of 4 credits.*

**MUSC 290/295 STRING AND PERCUSSION METHODS**

2 hrs/2hrs

History, techniques, tone production, teaching methods and care of the various string and percussion instruments.

**MUSC 300/305 WOODWIND AND BRASS METHODS**

2 hrs/2hrs

History, techniques, tone production, teaching methods and care of the various woodwind and brass instruments.

**MUSC 310 PIANO PEDAGOGY**

2 hrs

An elective course for pianists offered once yearly according to sufficient demand. The course provides an introduction to the profession of independent studio teaching for pianists and includes topics relevant to the field of piano teaching, a survey of beginning and intermediate piano methods, peer teaching, and interaction with other independent teachers. *Pre-requisite: one year of MUSC 460s, 470s, or 480s.*



**MUSC 312 INTRODUCTION TO PIANO LITERATURE****2 hrs**

A survey of keyboard literature from Bach through the contemporary era. Students will become acquainted with the style characteristics of keyboard music from the major periods of music history by studying scores and listening to performance of exemplary piano repertoire. *Prereq.: One year of MUSC 460s, 470s, or 480s.*

**MUSC 315 INSTRUMENTAL PEDAGOGY AND LITERATURE I****2 hrs (alt. yrs.)**

The first of two courses designed to meet the needs of students desiring a career in instrumental performance and/or studio teaching. Students will examine pedagogy relevant to their major instrument and become familiar with literature used in the pedagogy of that instrument. Practical aspects of running a studio and managing a career in music will also be discussed.

**MUSC 320 ACCOMPANYING****2 hrs**

Students will be assigned practical accompanying projects in both the instrumental and vocal areas. *Prereq: Permission of instructor. May be repeated for credit.*

**MUSC 335 AMERICAN MUSIC****5 hrs**

A survey of the evolution of American music. Includes study of both popular and artistic traditions.

**MUSC 338 WOMEN IN MUSIC****5 hrs (alt. yrs.)**

Examines women's contributions to music and music-making from historical, sociological and cultural viewpoints. Music from principal stylistic eras, mainly from the Western European tradition, will be covered.

**MUSC 339 AMERICAN POPULAR MUSIC****5 hrs**

A music literature course for music majors and non-majors surveying the breadth of American popular music from ragtime, jazz, the blues, to country music, rock and roll and its later styles. This course is an approved I. S. arts substitution

**MUSC 340 MUSIC HISTORY AND LITERATURE I****4 hrs**

A survey of the history of music from antiquity through the Renaissance. *Prereq: MUSC 220 or permission of instructor.*

**MUSC 350 MUSIC HISTORY AND LITERATURE II****4 hrs**

A survey of the history of music during the Baroque and Classical eras. *Prereq: MUSC 340 or permission of instructor.*

**MUSC 360 MUSIC HISTORY AND LITERATURE III****4 hrs**

A survey of the history of music during the 19th, 20th and 21st centuries. *Prereq: MUSC 350 or permission of instructor.*



**MUSC 370 MUSIC METHODS AND MATERIALS  
FOR THE ELEMENTARY SCHOOL**

4 hrs

Materials and methods for early childhood and elementary classrooms; practical keyboard, guitar, and recorder skills; laboratory experiences in the use of music, methods, and materials representing the diverse cultures present in today's schools. Requires 35 clock-hours of school participation.

**MUSC 375 MUSIC METHODS AND MATERIALS  
FOR THE MIDDLE SCHOOL**

4 hrs

Materials and methods for teaching middle school music. Methods for organization, maintenance, and selecting literature for choirs, band and orchestras representing diverse cultures, historical periods and styles. Practical keyboard and guitar skills. Teaching the non-performance music class. Requires 35 clock-hours of school participation.

**MUSC 377 JAZZ HISTORY**

2 hrs

This course examines the stylistic evolution and history of jazz. Emphasis will be placed on learning about the lives and musical development of jazz music's most significant artists, as well as listening to important recordings.

**MUSC 378 SPECIAL TOPICS IN JAZZ**

2 hrs

The topics of this course will vary, depending on student interest and needs. The course provides the opportunity for an in-depth examination of a jazz personality, style, or center of development. The class will be taught in a seminar format, with students contributing their own research to the exploration of the class topic. *Prereq:* MUSC 377

**MUSC 379 AUDIO TECHNOLOGY FOR PERFORMERS**

2 hrs

Introduction to theory and practice of audio production and engineering in a live performance environment. Basic recording of live performances will also be discussed as well as the application of audio technologies to assist the performer and/or audio engineer in promotion, collaboration and other business.

**MUSC 380 MUSIC METHODS AND MATERIALS  
FOR THE SECONDARY SCHOOL**

4 hrs

Materials and methods for teaching high school music. Methods for organization, maintenance and literature for choirs, band and orchestras representing diverse cultures, historical periods and styles. Practical keyboard skills. Teaching the non-performance music class. Requires 35 clock hours of school participation.

**MUSC 385 RECORDING TECHNOLOGY**

5 hrs

Examines the acoustics and electrical properties of sound production, and also provides the student an opportunity to learn live sound and recording techniques. Music and Business students must take the course prior to the internship quarter. *Prereq:* MCOM 110 and MUSC 285.

**MUSC 390 INDEPENDENT STUDY**

1-5 hrs

Topic(s) to be selected by student(s) with approval of the chairperson. May be repeated for credit.



**MUSC 400 DICTION FOR SINGERS I****2 hrs**

Basic diction in English and Italian. Includes study of the International Phonetic Alphabet and its application to solo vocal literature in these two languages. *Prereq:* One year of MUSC 462, 472 or 482.

**MUSC 402 DICTION FOR SINGERS II****2 hrs (alt. yrs.)**

Basic diction in German and French. Includes study of International Phonetic Alphabet and its application to solo vocal literature in these two languages. *Prereq:* MUSC 400 or permission of instructor.

**MUSC 404 DICTION FOR SINGERS III****2 hrs**

Basic diction in French. Includes study of International Phonetic Alphabet and its application to solo vocal literature in this language. *Prereq:* MUSC 400 or permission of instructor.

**MUSC 405 VOCAL PEDAGOGY****2 hrs**

An exploration of the vocal mechanism. The course is designed to provide the basic skills necessary to teach voice in the private studio. *Prereq:* One year of MUSC 462, 472, or 482, or permission of instructor.

**MUSC 410 ART SONG LITERATURE****2 hrs (alt. yrs.)**

A survey course designed to provide an introduction to a song repertoire c. 1580 - present. The primary material to be covered includes Italian song, German Lied, French melodie, and British and American song. Russian, Scandinavian, and Spanish repertoires will be discussed as time permits. In addition to readings in the text, students will be responsible for listening assignments. *Prereq:* One year of MUSC 462, 472, or 482.

**MUSC 412 OPERA LITERATURE****2 hrs (alt. yrs.)**

A survey course examining opera literature from its beginnings in late-Renaissance Italy to the latest works from the contemporary period such as John Adams and Philip Glass. Emphases will be placed on works from the standard repertory by Gluck, Mozart, Rossini, Donizetti, Verdi, Wagner, Puccini, and Strauss. Lesser works will be discussed as time permits. In addition to readings in the text, students will be responsible for listening assignments. *Prereq:* One year of MUSC 462, 472, or 482.

**MUSC 415 INSTRUMENTAL PEDAGOGY AND LITERATURE II****2 hrs (alt. yrs.)**

The second of two courses designed to meet the needs of students desiring a career in instrumental performance and/or studio teaching. Students will examine more advanced pedagogy relevant to their major instrument and become familiar with additional literature used in the pedagogy of that instrument. In-depth aspects of running a studio and managing a career in music will also be discussed.

**MUSC 420 MUSICAL THEATRE STUDIO****4 hrs**

Techniques of performance relevant to musical theatre. Preparation of scenes from representative musicals. *Prereq:* Junior standing or permission of either the chairperson of the Department of Music or of the Department of Theatre and Dance.



**MUSC 421 FRESHMAN MUSICAL THEATRE ENSEMBLE**

1 hr

A freshman musical theatre ensemble. *Open to B.F.A. students in musical theatre only.*

**MUSC 440 AMERICAN MUSICAL THEATRE**

2 hrs

A survey of musical theatre repertory from the 19th century to the present; contains a performance component. *Open to B.F.A. musical theatre students only, or permission of instructor.*

**MUSC 446 MARCHING BAND METHODS**

2 or 4 hrs

The fundamental techniques of marching bands; charting and arranging in both traditional and contemporary styles. Includes a practicum experience in producing a band show. *Prereq: Junior standing.*

**MUSC 447 ADVANCED THEORY**

2 hrs

For advanced students intending to pursue graduate work. Those approved by the chairperson will assist in the teaching of lower-level theory students, and complete a survey of the literature and methods of teaching music theory. May be repeated for credit. *Offered on demand. Prereq: MUSC 220 or permission of instructor.*

**MUSC 448 ADVANCED COMPOSITION**

2 hrs

Individual study, concentrating on larger forms. May be repeated for credit. *Prereq: MUSC 280 or permission of instructor. Offered on demand.*

*All Ensemble Courses (MUSC 450s) may also be elected for no credit.*

**MUSC 450 CHAMBER ENSEMBLE**

1 hr

Various small instrumental ensembles that may include Brass Quintet, Electro-Acoustic Workshop, Flute Ensemble, Piano Duo, Piano Trio, Saxophone Quartet, String Quartet, Trombone Choir, Tuba Ensemble, and Woodwind Quintet.

**MUSC 451 OPERA**

1 hr

Performing projects include opera scenes, one-act operas, and full opera productions. A two level acting sequence is offered for BA and BMUS students. A fall quarter seminar class is required of freshman music majors whose principal instrument is voice. The credit may also be awarded for students completing assigned technical duties associated with the opera productions. *Performance projects open by audition.*

**MUSC 452 OPUS ONE**

1 hr

Opus One is a vocal jazz ensemble. Credit for Opus One will not count unless a sequence of three courses is completed in a single academic year. *Students must also be registered simultaneously for either MUSC 454 or MUSC 455. Open by audition.*

**MUSC 453 BANDS**

**CARDINAL MARCHING BAND**

1 hr

Cardinal Marching Band performs at all home football games and various other functions throughout the autumn quarter. Participation is open to any member



of the Otterbein community who plays a wind or percussion instrument, as well as visual performers. Visual ensembles within the Cardinal Marching Band include the Cardinal Guard (flag/rifle/saber), the O-Squad Dance Team, and the Otterbein Twirlers.

### **SYMPHONIC BAND**

**1 hr**

Symphonic Band is a large concert ensemble performing a wide range of traditional wind literature and new works for band. Symphonic Band meets winter and spring quarters only, and is open to any interested student who plays a wind or percussion instrument. Auditions, which are only for placement purposes within the ensemble, occur at the beginning of the winter quarter. The Symphonic Band tours internationally every three years.

### **PEP BAND**

**1 hr**

Pep Band performs at men's and/or women's basketball games during winter quarter, including at tournament games.

### **WIND ENSEMBLE**

**1 hr**

The Wind Ensemble is Otterbein's most select wind band and is designed for the development of the professional performer and the professional educator. Comprised of a select group of 35-40 musicians, the ensemble rehearses for four hours per week and tours each year during spring break. *Open by audition.*

### **MUSC 454 MEN'S GLEE CLUB/WOMEN'S CHORALE/CAMERATA 1 hr**

Two to four hours rehearsal per week. Men's Glee Club and Women's Chorale are ensembles that are open to students across campus by audition; Camerata is a mixed ensemble drawn from the membership of the two ensembles. Credit will not count unless a sequence of three courses is completed in a single academic year. *Open by audition.*

### **MUSC 455 CONCERT CHOIR**

**1 hr**

Four hours rehearsal per week. Concert Choir is Otterbein's most select choral ensemble. Credit will not count unless a sequence of three courses is completed in a single academic year. Students placed in Concert Choir must tour with the choir over winter break. *Open by audition.*

### **MUSC 456 ORCHESTRA**

#### **STRING ORCHESTRA**

**1 hr**

Four hours of rehearsal per week and additional sectional hour per week. The Otterbein String Orchestra is the major orchestral performing ensemble in the department. All students whose major instrument is a bowed string instrument (violin, viola, cello or string bass) participate in this ensemble and membership is open to other interested students in the Department of Music, and from across the campus. The group maintains an active performance schedule. Previous playing experience is required and placement auditions are held prior to the autumn quarter each year.



**WESTERVILLE SYMPHONY AT OTTERBEIN COLLEGE** 1 hr

Three hours rehearsal per week. The Westerville Symphony at Otterbein College is a full symphony orchestra with membership drawn both from the Otterbein campus and from across central Ohio. At least one performance per quarter is scheduled, as well as additional educational and outreach performances.

*Membership is by audition.*

**MUSC 457 BIG BAND/JAZZ ENSEMBLE** 1 hr

Two hours rehearsal per week. Big Band is the College's most select instrumental jazz group and features standard instrumentation; Jazz Ensemble often is formed with flexible instrumentation. Credit will not count unless a sequence of three courses is completed in a single academic year. *Open by audition.*

**MUSC 458 PERCUSSION ENSEMBLE** 1 hr

Two hours rehearsal per week. The Percussion Ensemble plays music for a variety of percussion ensemble combinations, and performs at least twice a year on campus. Credit will not count unless a sequence of three courses is completed in a single academic year. *Must be simultaneously registered for MUSC 453.*

**MUSC 459 OTTERBEIN VOCAL ENSEMBLE** 1 hr

Two hours rehearsal per week. The Otterbein Vocal Ensemble sings chamber music drawn from all periods and styles. Credit will not count unless a sequence of three courses is completed in a single academic year. *Open by audition. Must also be simultaneously registered for MUSC 454 or 455.*

Courses numbered MUSC 460-468 carry one hour credit per term; MUSC 470-478 carry two hours credit per term; and MUSC 480-488 carry four hours credit per term. Credit will not count toward graduation unless the sequence of three courses is completed in a single academic year. An audition may be required. Each 460's course involves a half-period studio lesson (25 minutes) per week; each 470's and 480's course involves a full-period lesson (50 minutes) per week.

**MUSC 460/470/480 APPLIED WOODWINDS**

**MUSC 461/471/481 APPLIED BRASS**

**MUSC 462/472/482 APPLIED VOICE**

**MUSC 463/473/483 APPLIED PIANO**

**MUSC 464/474/484 APPLIED GUITAR**

**MUSC 465/475/485 APPLIED STRINGS**

**MUSC 466/476/486 APPLIED PERCUSSION**

**MUSC 467/477/487 APPLIED ORGAN**

**MUSC 468/478/488 APPLIED HARP**

**MUSC 490 INTERNSHIP**

1-15 hrs

Available in Music and Business, and in other areas. *Prereq: Permission of the chairperson.*



### **MUSC 493 MUSIC TEACHING PRACTICUM**

The practicum meets once a week. Music education students are introduced to and small ensemble music teaching materials and teaching strategies for various levels. Students will be introduced to the music education profession and to procedures required to earn music education licensure in Ohio. Required of all music education students not enrolled in the student teaching quarter. A total of 100 hours of clinical field experience can be earned through the successful completion of the music teaching practicum during ten academic quarters. *Ten hours of clinical field experience per quarter.*

### **MUSC 495 THE SOLO RECITAL:**

#### **PREPARING A 19TH CENTURY INSTITUTION FOR THE 21ST**

**2 hrs Autumn, 1 hr Winter, 2 hrs Spring**

This SYE course will meet over three quarters and will examine the concept of the solo recital preparation and performance, its history, evolution and arrival at the modern recital. As students prepare for their own senior recitals, they will study the history of this western European tradition through an examination of the careers of major solo performers, including Jenny Lind, Franz Liszt, Clara Schumann, Enrico Caruso, and others, including artists performing today. Reaching out beyond the field of the recitalists will read about and discuss the role of the arts within society—examining an examination of the place of the solo recital in today's global culture. At the end, and to more fully recognize the arts as a dynamic, ever-changing form, each student will interview a living composer, and if possible, learn and perform a piece by the composer as part of the culminating recital. *Open to B.MUS. students only. In Music students may elect the course with the permission of the chairperson.*

### **MUSC 497 ADVANCED SEMINAR**

This is a seminar course designed to cover various topics in music theory and history in more depth. Such topics may include, but are not limited to: Performance Practice Issues: Music after 1700, The Chamber Music of Brahms, Schopenhauer Analysis, Baroque Music: Vivaldi, Bach and Handel, The Phenomena of Genius: The Case of Mozart. Readings and discussion appropriate to the topic will be required, as well as a significant research or analysis project.

*Prereq: MUSC 360.*

### **MUSC 498 FINAL PROJECT**

An independent study course open only to B.A. in Music students whose concentration is either Music History and Literature or Music Theory and Composition. Students will work with an instructor to complete a final project appropriate to the concentration. *Prereq: MUSC 497.*



# Nursing

*Schaffner (chairperson) Berry, Burnam, Butz, Carlson, Chavez, Cornett, Keane, McKelvey, Mikolaj, Pryor-McCann, Ribar, Vogt.*

## Mission and Programs

The Department of Nursing is committed to quality nursing education which fosters critical thinking within the context of a caring framework. Our mission encourages the personal and professional development of faculty, staff and students. An appreciation for diverse perspectives and humane values is central to this mission. Building on a liberal arts education and a strong science foundation, the goal of the Nursing Program is to prepare lifelong learners who are committed to the profession, the community and to meeting the changing healthcare needs of society.

The Department of Nursing consists of 13 full-time faculty and approximately 25 part-time clinical faculty. The department offers a Bachelor of Science in Nursing (B.S.N.) program that includes an L.P.N. to B.S.N. track, an R.N. to B.S.N. track, and an R.N. to M.S.N. track; and a Master of Science in Nursing (M.S.N.) program and three Post-Masters programs.

Four tracks are available that lead to a Bachelor of Science in Nursing degree (B.S.N.). One track is the four-year curriculum that enables graduates to take the national licensing examination in nursing. The second track, designed specifically for registered nurses, consists of a two-year upper division curriculum. The third track, designed specifically for licensed practical nurses, enables graduates to take the national licensing examination in nursing. The fourth track, designed specifically for registered nurses, consists of an upper division curriculum leading to a Baccalaureate degree in nursing and progression into the Masters Program.

The Master of Science Program in Nursing (M.S.N.) offers four majors: Clinical Nurse Leader, Nursing Service Administration, Adult Nurse Practitioner and Family Nurse Practitioner. The Post-Masters programs offer certificates in Adult Nurse Practitioner, Family Nurse Practitioner, and Advanced Practice Nurse Educator. Additional information regarding the M.S.N. program is described in the Otterbein College Graduate Studies in Nursing Catalog, available upon request from the Office of Graduate Programs.

The nursing programs are accredited by:

The National League for Nursing Accrediting Commission (NLNAC), located at 51 Broadway, New York, NY 10006, is an informational resource for the nursing program (e.g. tuition, fees and length of programs). The telephone number is 1-800-669-9656.

The Commission on Collegiate Nursing Education (CCNE) is located at One Dupont Circle, NW, Suite 530, Washington, D.C. 20036-1120. The telephone number is 202-887-6791.



## Application Process

Students enrolled at Otterbein College in their freshman year as pre-nursing majors will be reviewed for admission into the nursing major in the spring of their freshman year. The Nursing Application Form must be received by April 1. Criteria specified below must be met to apply for admission. Students that have been given a guaranteed admission as seniors in high school will be reviewed first to confirm eligibility for progression. Then the highest qualified pre-nursing freshman students will be selected for the remaining available spaces, using Otterbein College GPA, GPA of other college level work (if applicable), prerequisite course grades, ACT scores, and High School GPA (when necessary). Notification of admission status will be mailed by May 1. The nursing program sequence begins fall quarter with Nursing 260. Students not accepted for an academic year should meet with their nursing faculty advisor for academic planning and can re-apply to be considered for the following academic year.

Students transferring to Otterbein College into the nursing major must submit a Nursing Application Form to the Nursing Department after obtaining admission to the college. For priority consideration, applications must be received by April 1. Criteria specified below must be met to apply for admission. The highest qualified candidates will be selected for the limited spaces available using cumulative GPA, prerequisite course grades, grades in math/science/nursing courses, past academic performance, ACT scores (when available), and enrollment at Otterbein College (when applicable). Notification of admission status will be mailed by June 1. The nursing program sequence begins fall quarter with Nursing 260. Students not accepted for an academic year must re-apply to be considered for the following academic year.

R.N.-to-B.S.N. & L.P.N.-to-B.S.N. students must submit a Nursing Application Form to the Nursing Department when they are ready to begin nursing courses, after obtaining admission to the college. For priority consideration, applications must be received by April 1. Criteria specified below must be met to apply for admission. The highest qualified candidates will be selected for the limited spaces available using cumulative GPA, prerequisite course grades, grades in math/science/nursing courses, past academic performance, and enrollment at Otterbein College (when applicable). Notification of admission status will be mailed by June 1. R.N.-to-B.S.N. track nursing courses begin summer quarter with Nursing 300. L.P.N.-to-B.S.N. track nursing courses begin fall quarter with Nursing 260. Students not accepted for an academic year must re-apply to be considered for the following academic year.

## Admission Requirements

**The following criteria must be met by all students in order to apply for admission to the BSN Program:**

1. Admission to the College.

Note: This is a separate application processed by the Admissions Office (traditional students) or the Office of Continuing Studies (adult students).

2. Minimum cumulative grade point average (GPA) of 2.7 on a 4.0 scale (all colleges combined). Grades earned over 10 years ago will not be used to calculate the cumulative GPA if a sufficient number of recent classes have been taken to demonstrate current academic ability.



3. Completion of the following courses at a C level or above (obtained credit by validation exam) by the end of spring quarter of the year you plan to enter nursing.
 

• Chemistry 110	General Chemistry
• Integrated Studies 100, 105, or 110	Freshman English
• Integrated Studies 130	General Psychology
• Life Science 108	Anatomy & Physiology I
• Life Science 109	Anatomy & Physiology II
4. Prerequisite courses with a grade less than a C must be repeated. Earning less than a C on initial attempt math, science, or nursing courses may negatively influence applicant's admission status.
5. R.N.-to-B.S.N. applicants: Enter nursing courses in the summer, and then at the senior level. Applicants must have completed the above prerequisites and Life Science 206 (Microbiology) and Psychology 210 (Growth & Development), and have current RN licensure in Ohio.
6. L.P.N.-to-B.S.N. applicants: Enter nursing courses in the fall. Applicants must complete the above prerequisites, and have current LPN licensure in Ohio.

### **Program Requirements for Clinical Courses**

Participation in clinical experience is NOT permitted until all clinical requirements (uniforms, CPR, health requirements and immunizations, liability insurance, and BCI clearance) are met, and failure to complete prior to course deadline may result in failure of the nursing course and/or dismissal from the nursing program.

**Uniforms:** Purchase uniforms and dress according to the uniform policy found in the *Department of Nursing Undergraduate Handbook*.

**CPR:** Complete the **American Heart Association CPR Basic Life Support Course for Health Care Providers (BLS-C)**. Certification is valid for two years and recertification is required prior to expiration. (**American Red Cross CPR classes are NOT accepted for this requirement.**)

**Health Requirements:** Complete Student Health Form. Proof of up-to-date immunizations as specified by the **Student Health Center**, including an initial two-step Mantoux TB skin test (or chest x-ray if recommended by medical provider) and the Hepatitis B vaccine series (or waiver). Annual one-step TB tests must also be maintained.

**Liability Insurance:** Provide proof of nursing student liability insurance on file in the Department of Nursing. Application forms are available in the Department of Nursing, Science 209, if needed. Annual renewals must be maintained.

**Bureau of Criminal Investigation (BCI) Clearance:** Complete an initial BCI clearance when enrolled in the first clinical nursing course. Unsuccessful BCI clearance may result in an inability to successfully progress in the nursing program, all such cases



will be evaluated on an individual basis. The Ohio Board of Nursing requires another BCI clearance prior to taking the National Council Licensure Examination – Registered Nurse (NCLEX-RN). Application materials are available in the Department of Nursing. Students are responsible for associated fees. [Note: occasionally health care agencies may require a repeat of BCI clearance for students placed at their facility; students are responsible to complete this as required.]

**Health Insurance:** Recommend adequate health insurance coverage. Students are financially responsible for any testing or treatment needed following a course-related injury or illness.

### ***Essential Performance Requirements***

In order to accomplish the objectives of the nursing program safely, students must possess the ability and fitness to perform in a manner that will not jeopardize safety and well-being of their patients or themselves. Examples of these essential performance requirements include but are not limited to:

1. Visual acuity with or without corrective lenses to identify cyanosis or absence of respiratory movement in patients, perform equipment calibrations, read small print on medication containers, physician's orders and equipment monitors, perform physical assessments and recognize when a patient is in imminent danger, etc. Many clinical agencies require all healthcare workers to possess normal visual color perception.
2. Hearing ability with or without auditory aids to understand the normal speaking voice without viewing the speaker's face, hear monitor alarms, emergency signals, patients' calls for help, call bells from patients, stethoscope sounds originating from a patient's blood vessels, heart, lungs, and abdomen, etc.
3. Physical ability to stand for prolonged periods of time, perform cardiopulmonary resuscitation, quickly move about and transport patients during emergencies, carry infants, maneuver quickly in confined spaces, etc. Other physical requirements include carrying equipment, pushing, pulling, stooping, kneeling, bending, and climbing stairs. Must be able to lift, push and pull with assistance (mechanical or co-worker) the weight of the average patient specific to the clinical area working in.
4. Ability to communicate effectively in verbal and written form. Ability to speak clearly, coherently and succinctly when explaining treatment procedures, describing patient conditions, implementing health teaching, etc. Ability to write legibly, logically and correctly in patient's chart for legal documentation, etc.
5. Manual dexterity and fine motor skills, including eye-hand-foot coordination, repetitive arm and hand movements and finger dexterity, using sterile techniques, inserting catheters, preparing and administering medication (oral, intramuscular, intravenous), and numerous other invasive procedures.
6. Emotional stability and ability to accept responsibility and accountability.

The nursing department may require nursing students with special needs who pose a threat to the safety of others or to themselves in the health care environment to withdraw from the program. Each situation will be reviewed on an individual basis.



**HEALTH PROBLEMS POLICY:** Students are responsible for informing faculty about health alterations and/or conditions which may affect safety and competency in the clinical setting. Students are required to submit a faculty-specified doctor's/health professional's statement on appropriate letterhead regarding status of this health condition before participating in clinical experiences to the student's instructor.

**Students are also responsible** to inform clinical instructors about any conditions including but not limited to pregnancy, skin not intact or immunocompromised conditions that may affect their clinical assignments to clients with serious communicable diseases. If student is uncertain, the student should discuss question(s) with faculty. Confidentiality of information will be maintained.

**FEES/EXPENSES POLICY:** Additional fees are required. See *Otterbein College Undergraduate Course Catalog* and *Otterbein College Schedule of Classes* for tuition and fee schedule.

**DEPARTMENT OF NURSING UNDERGRADUATE HANDBOOK:** Provides guidelines and policies related to the nursing program. Students are expected to read and abide by the policies. The handbook is available on-line at [www.otterbein.edu](http://www.otterbein.edu), Department Internet site for Nursing.

### ***B.S.N. degree with a major in Nursing***

#### *Requirements in the Core Curriculum:*

- ☐ Integrative Studies - 50 hrs (specifics on p. 13; INST 130 must be selected)
- ☐ Health and Physical Education Lifestyle Series - 3 hrs (specifics on p. 16)
- ☐ Senior Year Experience - hrs depend upon course selected (specifics on p. 16)
- ☐ Free Elective - 5 hrs

#### *Requirements in the major (approximately 139 hrs or more or equivalent):*

##### Required Lower Division Nursing courses

- |   |   |
|---|---|
| <input type="checkbox"/> NURS 230 - 4 hr  | <input type="checkbox"/> NURS 270 - 7 hrs |
| <input type="checkbox"/> NURS 240 - 4 hrs | <input type="checkbox"/> NURS 280 - 7 hrs |
| <input type="checkbox"/> NURS 260 - 7 hrs |   |

##### Required Upper Division Nursing courses

- |  |  |
|--|--|
| <input type="checkbox"/> NURS 300 - 3 hrs* | <input type="checkbox"/> NURS 390 or 499 - 2 hrs |
| <input type="checkbox"/> NURS 335 - 3 hrs  | <input type="checkbox"/> NURS 440 - 3 hrs        |
| <input type="checkbox"/> NURS 340 - 8 hrs  | <input type="checkbox"/> NURS 460 - 8 hrs        |
| <input type="checkbox"/> NURS 351 - 5 hrs* | <input type="checkbox"/> NURS 470 - 8 hrs        |
| <input type="checkbox"/> NURS 360 - 8 hrs  | <input type="checkbox"/> NURS 480 - 8 hrs        |
| <input type="checkbox"/> NURS 370 - 8 hrs  |  |

##### Required Support courses

- |   |   |
|---|---|
| <input type="checkbox"/> CHEM 110 - 5 hrs | <input type="checkbox"/> L SC 206 - 5 hrs |
| <input type="checkbox"/> CHEM 220 - 6 hrs | <input type="checkbox"/> L SC 312 - 5 hrs |
| <input type="checkbox"/> C SC 100 - 3 hrs | <input type="checkbox"/> MATH 230 - 5 hrs |
| <input type="checkbox"/> MATH 115 - 5 hrs | <input type="checkbox"/> PSYC 210 - 5 hrs |
| <input type="checkbox"/> L SC 108 - 5 hrs | <input type="checkbox"/> SOCL 120 - 5 hrs |
| <input type="checkbox"/> L SC 109 - 5 hrs |   |

\* Courses for RN students only



*Grade Requirements*

- A minimum grade of "C" is required in Life Science 108, 109, 206, 312; Chemistry 110, 220; Integrative Studies 100, 105 or 110 and 130. If a grade less than "C" is earned, these courses must be repeated in order to meet pre requisite and degree requirements.
- A minimum grade of "C" is required in all nursing courses. To proceed in the sequence of nursing courses, all prerequisite nursing courses must be completed with a "C" or better.
- Whenever a B.S.N. student interrupts enrollment in the three-year sequence of nursing courses (regardless of reason), the student must apply for re-enrollment into nursing courses at least one quarter prior to re-entry (for fall re-entry, application must be submitted by April 1). Late submission of materials may negatively effect the student's re-enrollment. Re-enrollment is not guaranteed and is determined by the Professional Review Committee on an individual basis. The full policy and procedure for re-enrollment is located in the Department of Nursing Undergraduate Student Handbook.
- A student receiving two (2) grades of "C-" (C minus) or lower in the original attempt in all nursing courses; Life Science 108, 109, 206, 312; Chemistry 110 and 220 (CHEM 220 double counts with INST 340); or any combination of these courses, will no longer be able to continue in the BSN Program. A student may attempt only one nursing course twice in the BSN Program. An attempt is defined as being enrolled in a course beyond the twenty-fifth class day. Receiving a grade of C- (C minus) or lower or a W (Withdrawal) in the original attempt of any nursing course will constitute an attempt.
- A cumulative grade point average of at least 2.0 is required to receive the B.S.N. degree.

*Residence Requirement:*

- ☐ Must be fulfilled by all transfer students (see p. 24)

*Required total hours for the degree:*

- ☐ At least 180, but more typically closer to 192 (also see exceptions/additional comments on p. 24).

*Application for Degree*

- ☐ A prospective graduate must submit an Application for Degree at the Registrar's Office two quarters prior to the quarter in which the degree is to be completed.

**Track I: B.S.N. Students**

The B.S.N. student will fulfill all of the above requirements.

**Track II: R.N. to B.S.N. Students**

- Credit for lower division nursing courses and NURS 340, 360 and 370 will be conferred upon completion of the program.
- Credit for the required support courses may be obtained through completion of the course, transfer credit or validation examination.
- All students must complete NURS 300.



- Credit for selected upper division nursing courses may be established by proficiency examination if eligibility criteria are met. Credit for no more than two of the following clinical courses: NURS 351, 460, 470 or 480 may be obtained through proficiency examination. If credit for two clinical courses is obtained, one of the clinical courses must be NURS 351.
- Credit for no more than one 400 level non-clinical course may be obtained through a proficiency examination.
- Current CCRN or CEN status meets the criteria for validation credit in NURS 470.
- Students must meet the Otterbein College residence requirements (see residence requirement section in this catalog).
- Information related to the examination schedule and fees may be obtained from the Department of Nursing.

### **Track III: L.P.N. to B.S.N. Students**

- Credit for NURS 230 (Basic Pharmacology) and NURS 240 (Nutrition Through the Life Span) may be established by validation examination.
- Credit for NURS 280 may be established by validation examination. If the student receives credit by examination for NURS 280, the student must also complete NURS 290.
- Validation of selected clinical skills at a satisfactory level must be demonstrated prior to enrollment in upper division nursing courses.
- Credit for the required support courses may be earned by taking courses at Otterbein, by transfer and/or by examination.

### **Track IV: R.N. to M.S.N. Students**

The R.N. to M.S.N. student receives both a Bachelor of Science in Nursing degree and a Master of Science in Nursing degree. Students who do not meet criteria for progression into the M.S.N. program continue to completion of the B.S.N. program.

Admission to the R.N. to M.S.N. track requires two applications: 1) apply to the Office of Continuing Studies for the R.N. to M.S.N. track; and 2) apply to the Office of Graduate Programs for admission to the M.S.N. Program, during the last quarter of the B.S.N. Program.

Specific graduate level courses (NURS 622, NURS 670, L SC 500 and NURS 699) meet selected B.S.N. curriculum requirements. All B.S.N. requirements and full admission to the M.S.N. program must be completed before enrolling in subsequent graduate courses. A minimum cumulative grade point average of 3.0 on a 4.0 scale for all undergraduate and graduate studies is required for admission to the M.S.N. program.

The R.N. to M.S.N. student must maintain a current cumulative GPA of 3.0. A minimum grade of C+ is required in all graduate course work. If a grade lower than C+ is earned, the graduate course must be repeated in order to enroll in subsequent graduate nursing courses. If a student receives a second C or lower in any required graduate course, the student may no longer progress in the R.N. to M.S.N. program. A student may attempt only one graduate course twice in the R.N. to M.S.N. program.



An attempt is defined as being enrolled in a course beyond the twenty-fifth class day. Receiving a grade of C or lower or a W (Withdrawal) in the original attempt of any graduate course will constitute an attempt.

Graduate requirements for a M.S.N. degree include a cumulative grade point average of at least 3.0 and successful completion of the capstone requirement at a "B" level or higher. (See *Otterbein College Graduate Studies in Nursing Handbook* for additional information)

### Admission Criteria

Admission to the R.N. to M.S.N. program is open to graduates of accredited nursing programs who hold a current Ohio registered nurse license and give evidence of academic and professional ability to succeed in advanced nursing studies. The most qualified applicants who meet the admission criteria will be selected on a space-available basis.

1. Admission to Otterbein College.
2. Licensure as a registered nurse in Ohio.
3. A minimum cumulative grade point average of 3.0 on a 4.0 scale on all previous college level work.
4. One year full-time or equivalent part-time nursing employment is required for adult health care and nursing service administration majors. Two years full-time or equivalent part-time nursing employment experience is required for nurse practitioner majors.
5. Evidence of capacity for graduate work as documented in two recommendations.

### Admission Procedure

#### STEP ONE:

1. Schedule an appointment with the Nursing Advisor in the Continuing Studies Office for program information and academic planning.
2. Complete the Otterbein College Undergraduate Application Form. Obtain the form from the Continuing Studies Office.
3. Complete an R.N. to M.S.N. Application for Admission form and submit to the Office of Continuing Studies.
4. The following courses are required for admission (with a minimum grade of C):
  - Integrative Studies 100 or 105 or 110 (Freshman English)
  - Integrative Studies 130 (General Psychology)
  - Life Science 108 and 109 (Anatomy and Physiology I and II)
  - Chemistry 110 (General Chemistry)
  - Psychology 210 (Growth and Development)
  - Life Science 206 (Microbiology)
  - Lower level nursing courses
5. Submit a photocopy of current Ohio R.N. license. (Write the word "copy" over it, not obscuring the name, number or expiration date, and sign the sheet of paper.)
6. Submit two recommendation forms from two individuals who can support application to pursue advanced studies; one from an employer or supervising



nurse; and, one from a nursing professor if the applicant has been in school within the past five years. (Recommendations from current Otterbein students are not acceptable.)

7. Request official transcripts from all previous colleges or universities attended (all schools regardless of number of courses taken).
8. Complete a professional resume.
9. To ensure a smooth progression into the M.S.N. program, discuss the application process for full admission into the M.S.N. program with the R.N. to M.S.N. Program Director two quarters prior to completion of the B.S.N. program.

## STEP TWO

### Progression to Full Admission into the M.S.N. Program:

1. Submit application to the M.S.N. Program to the Graduate Office by the Friday of the first week of last B.S.N. quarter.
2. A minimum cumulative grade point average of 3.0 must be maintained in undergraduate courses.
3. A minimum cumulative grade point average of 3.0 must be maintained in graduate courses.
4. Any student receiving (2) C or lower grades in the required graduate course work will no longer be able to continue in the M.S.N. program.
5. Successful completion of four selected graduate courses (N622, N670, L SC 500, and N699) that apply to B.S.N. requirements.
6. Congruence of goals as documented in a 2-4 page essay (typewritten) in which you describe your professional goals and aspirations, reflections and/or experiences that have shaped those goals, and why these goals and aspirations can be achieved in the Graduate Nursing Program at Otterbein College.
7. Full admission to the M.S.N. program is required before enrolling in any course except the courses specified in #5 above.

Candidates who do not meet all of the admission criteria listed above, but who wish to be considered for admission, must submit a petition requesting special consideration along with their application materials. For example, the inclusion of GRE scores may strengthen the candidate's position, if the applicant does not meet the criteria of a minimum grade point average.

**School Nurse:** The Otterbein College School Nurse Licensure Program is accredited by the State of Ohio Department of Education. The program prepares Bachelor of Science in Nursing graduates for practice in public and private elementary, middle, and high school settings. The school nurse curriculum includes education, health education courses and a nursing seminar. Requirements for admission include a B.S.N. degree, 3.0 cumulative grade point average, valid B.N. license for practice in Ohio, and an interview with the School Nurse Advisor. For information, please refer to the *Teacher Education Programs Booklet* for program details or contact the Continuing Studies Office at (614) 823-1356 or the Department of Nursing at (614) 823-1614.



## Program Outcomes

Graduates of the Bachelor of Science in Nursing (B.S.N.) program are prepared as generalists and can care for individuals of all ages, from infants to elderly, and groups such as families and communities. Graduates are employable in a variety of health care agencies that include acute care, extended care, primary care, home care, mental health, and community health settings. The completion of the B.S.N. program qualifies an individual to take the National Council Licensure Examination – Registered Nurse (NCLEX-RN) and to pursue graduate education. The Master of Science in Nursing (M.S.N.) program prepares graduates to assume advanced practice nursing roles in multiple and diverse health care settings. The completion of the M.S.N. program qualifies an individual to pursue doctoral education.

## Nursing Courses (NURS)

Information about experimental courses, when offered, will be available at the Office of the Registrar late in the Spring Quarter preceding the academic year in which the courses are scheduled. Such courses are numbered 191, 291, 391 or 491.

### **NURS 230 BASIC PHARMACOLOGY**

**4 hrs**

Classes will focus on the pharmacodynamics and clinical uses of various classes of drugs in the health care setting, including drugs used for hypertension, infection, cancer, pain and diseases of the cardiac, renal, respiratory, endocrine, gastrointestinal and central nervous system. *Prereq: CHEM 110; L SC 108, 109; admission to nursing program is required.*

### **NURS 240 NUTRITION THROUGH THE LIFE SPAN**

**4 hrs**

Study of the chemistry, digestion, absorption and metabolism of carbohydrates, fats and protein. Discusses role of vitamins/minerals within the body. Examines nutritional needs through the life span and the role of nutrition in health maintenance and promotion. *Prereq: CHEM 110, L SC 108, 109; admission to nursing program is required.*

### **NURS 260 FOUNDATIONS FOR HEALTH PROMOTION/MAINTENANCE**

**7 hrs**

*Lecture and Clinical*

An introduction to the theoretical foundations of nursing and concepts of health promotion/maintenance, caring, communication and the nursing process. Development of basic health assessment, interviewing and caring skills. *Prereq: CHEM 110; L SC 108, 109; INST 100 or 105 or 110; INST 130; admission to Nursing Program; completion of "Program Requirements for Clinical Courses".*

### **NURS 270 HEALTH PROMOTION/RESTORATION OF THE ADULT**

**7 hrs**

*Lecture and Clinical*

An introduction to the concepts of health promotion/restoration for adults. Exploration of other concepts such as culture, spirituality, ethical decision making, and leadership. Application of the nursing process with adult clients experiencing selective health alterations of the protective, nutrition/elimination, sensorimotor, gas transport/exchange, and rest/comfort processes of the body. *Prereq: NURS 260. Concurrent or prereq: NURS 230; completion of "Program Requirements for Clinical Courses".*