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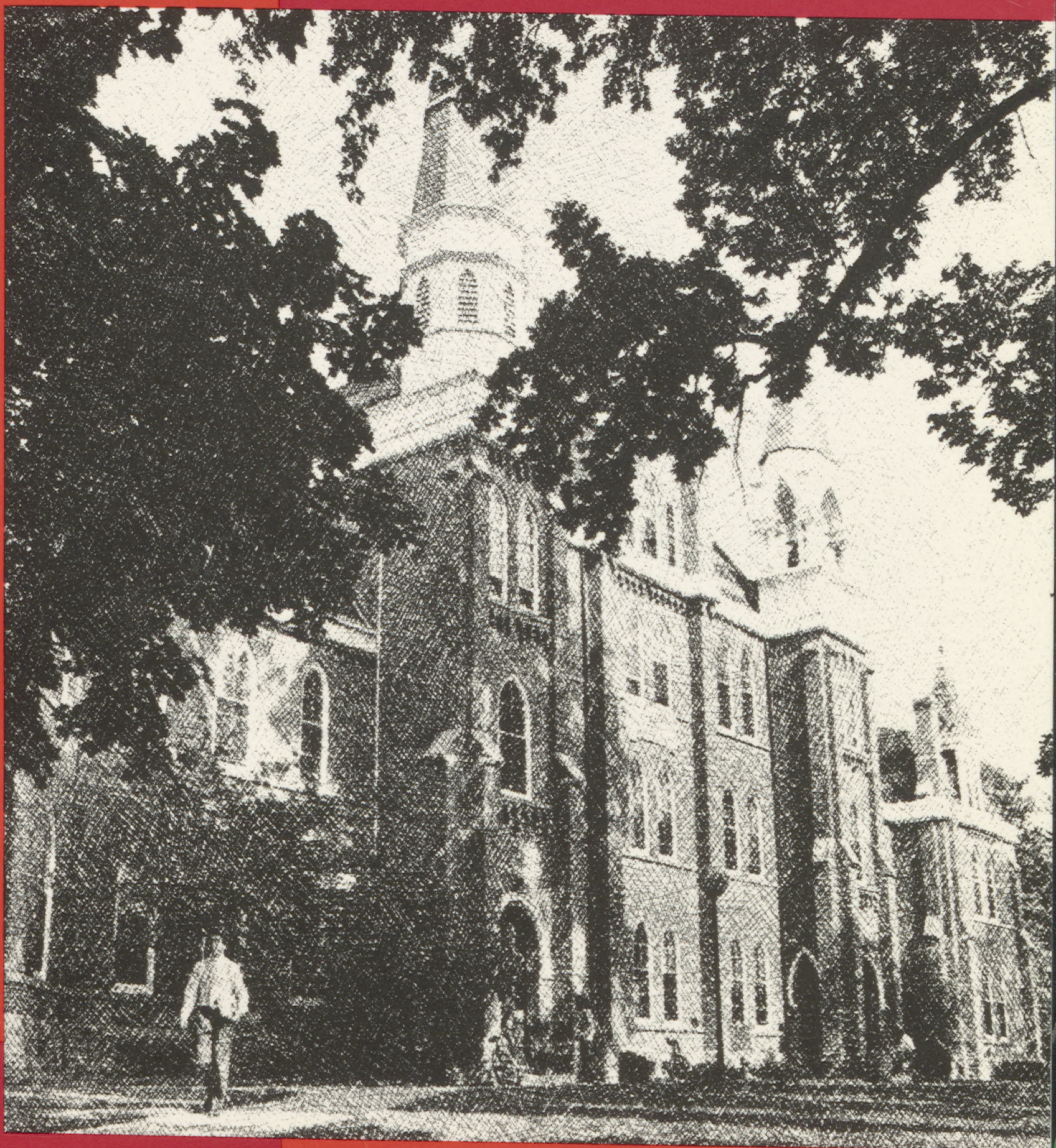
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OTTERBEIN COLLEGE



COURSE CATALOG 1993-95

Academic Calendar

	1993-94	1994-95	1995-96
AUTUMN QUARTER			
Classes Begin			
-Day & Evening Classes	Sept. 13	Sept. 12	Sept. 11
Examination Period	Nov. 22-24	Nov. 21-23	Nov. 20-22
WINTER QUARTER			
Classes Begin			
-Day & Evening Classes	Jan. 3	Jan. 3	Jan. 2
Examination Period	March 14-16	March 13-15	March 11-13
SPRING QUARTER			
Classes Begin			
-Day & Evening Classes	March 28	March 27	March 25
Examination Period	June 6-8	June 5-7	June 3-5
COMMENCEMENT	June 12	June 11	June 9
SUMMER QUARTER			
Classes Begin			
-Day and Evening Classes	June 15	June 14	June 12
Examination Period	Aug. 10-11	Aug. 9-10	Aug. 7-8

Nondiscrimination Policy

Otterbein College does not discriminate on the basis of sex, race, creed, color, national origin, or handicap in admission of students, educational policies, scholarships and loans, housing, athletics, employment, and other activities. Inquiries regarding compliance with federal nondiscrimination regulations may be directed to Dr. Marilyn Day, Chairperson of the Affirmative Action Committee; the Vice President for Academic Affairs; or the Vice President for Business Affairs.

Accreditation

Otterbein College is approved by the North Central Association of Colleges and Secondary Schools, the American Association of University Women, the Association of American Colleges, the National Association of Schools of Music, the Ohio College Association, the Ohio Department of Education, the National Council for Accreditation of Teacher Education, and the National League for Nursing.

The provisions of this Catalog are not to be regarded as an irrevocable contract between the student and Otterbein College. This Catalog has attempted to present information regarding admission requirements and the general rules and regulations of the College in as accurate and up-to-date fashion as possible. This does not, however, preclude the possibility of changes taking place during the academic year. If such changes occur, they will be publicized through normal channels and will be included in the next edition of the Catalog.

Westerville, Ohio 43081 (800) 488-8144
Otterbein College Bulletin, Vol. LXXXV



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The College



Our Philosophy

Otterbein College seeks to sponsor a program of liberal arts education in the Christian tradition. 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 non-academic life are designed to help you share in the goals of the College. For example, Integrative Studies offer 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.

Introducing Otterbein

Otterbein is an independent coeducational four-year liberal arts college affiliated with the United Methodist Church. We have grown from eight students in 1847 to a current enrollment of about 2,500.

Our history is rich with examples of our unique approach to higher education. Otterbein was the first institution of higher learning to begin as a coeducational college, and the first to include women on its faculty. The first graduates in our collegiate courses were women. The doors have always been open to people of all races and religious convictions, and Otterbein has always balanced the theory of liberal arts education with the practicality of career training. In the 1850s, the American economy was largely agricultural, and our students followed the liberal arts in the College classrooms and raised crops on College land. At the turn of the century, when the Industrial Revolution was changing America into a commercial society, Otterbein College was mixing higher education with down-to-earth business courses. Today, when students are correctly concerned with their ability to earn a living after college, Otterbein offers a solid liberal arts education balanced by practical, effective career training programs.

Over 140 years have passed since this College began, and Otterbein has changed and yet remained the same. The curriculum has changed continually to suit the times, but the mission has remained: to develop and discipline the mind, and to produce practical men and women who are useful to themselves and to the world.

About Westerville

Otterbein College is located in Westerville, Ohio, a suburb of Columbus, the state capital.

The town of Westerville was only nine 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 the shops and restaurants of downtown Westerville. The town's many parks provide opportunities for recreation or just relaxation. And nearby you will find lakes where you can sail, water ski and sometimes ice skate.

Our proximity to Columbus, which is one of the fastest-growing cities in the nation, means that big-city attractions are only minutes away.

At Otterbein you will feel neither crowded nor isolated.

Degrees and Programs of Study

Otterbein offers the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, Bachelor of Fine Arts in Theatre, Bachelor of Science in Education and Bachelor of Science in Nursing.

In addition, Otterbein offers a Master of Arts in Education degree and a Master of Arts in Teaching.

The following undergraduate majors are available to you at Otterbein:

Accounting	Nursing
Biology (see Life & Earth Sciences)	Philosophy
Business Administration	Physical Education
Finance	Physics
International Business	Political Science
Management	Preprofessional Programs
Marketing	Dentistry
Business/Organizational Communication	Law
Chemistry	Medicine
Computer Science	Optometry
Dance	Veterinary Medicine
Economics	Psychology
Education	Public Relations
Elementary	Religion
Secondary	Sociology
English	Spanish
Equine Health Technology	Speech Communication
Equine Management	Broadcasting
French	Broadcast Journalism
Geology (see Life & Earth Sciences)	Sports Medicine
Health Education	Theatre
History	B.F.A. (Professional)
International Studies	Acting
Journalism	Design-Technical
Life & Earth Sciences	Musical Theatre
Molecular Biology/Biotechnology	B.A.
Natural Resources &	Visual Arts
Environmental Science	
Pre-professional Health Sciences	
Mathematics	
Music	
B.F.A.	
Musical Theatre	
B.A.	
Theory/Composition	
Applied Music	
History/Literature	
Music and Business	
B.M.E.	
Music Education	

An individualized major program may also be developed with your faculty adviser.

Degree Programs

Bachelor of Arts (B.A.)

Graduation with the B.A. degree requires the completion of at least 180 quarter hours with a grade of "A," "B," "C," "P" or "D." If a "D" is received in a required major course, the department may authorize the use of that "D."

The candidate for the B.A. must complete the Integrative Studies program, a major with at least a 2.0 average and three physical education service courses. All candidates for the B.A. must successfully complete French 100 and 110, Spanish 100 and 110, German 100 and 110, or Japanese 100 and 110. Students who have taken the third year of any foreign language in high school and have received a grade of "B" or better in the third year are exempt from this requirement. Other students who have taken a foreign language in high school may take the College's Foreign Language Placement Test to determine whether they are proficient in Foreign Language 100, 110 or both. Students who demonstrate proficiency in Foreign Language 110 will have no further foreign language requirement, unless further work is required for their major field. All candidates for the B.A. must successfully complete Mathematics 090 (Intermediate Algebra) and one course selected from the following: Mathematics 115 (College Algebra), Mathematics 116 (Trigonometry), Mathematics 120 (Elementary Functions), Mathematics 150 (Contemporary Mathematics), Mathematics 160 (Mathematics of Decision Making). Students who have taken mathematics in high school may take the College's Mathematics Placement Test to determine their proficiency in Mathematics. Some students may fulfill the B.A. mathematics requirements through the placement test.

A candidate for the Bachelor of Arts degree may major in any of the following fields: Accounting, Business Administration, Business/Organizational Communication, Chemistry, Computer Science, Dance, Economics, English, Equine Health Technology, Equine Management, French, Health Education, History, International Studies, Journalism, Life Science, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Public Relations, Religion, Sociology, Spanish, Speech Communication, Sports Medicine, Theatre or Visual Arts.

The maximum number of quarter hours which may be completed in one field of study without adding hours to the total required for graduation is 65. Each hour in excess of 65 will add an hour to the total number required for the B.A. degree.

Requirements for majors are given by each department in the Courses of Instruction section of the catalog. Certification requirements for secondary teachers are available from the Otterbein Department of Education.

Students must also have a cumulative grade point average of at least 2.0 to receive the Bachelor of Arts degree.

Bachelor of Fine Arts (B.F.A.)

Candidates for the B.F.A. degree must complete at least 180 quarter hours with a grade of "A," "B," "C," "P" or "D." If a "D" is received in a required major course, the department may authorize the use of that "D."

The candidate for the B.F.A. must complete the required Integrative studies courses, the major in Theatre or the interdisciplinary major in Musical Theatre with at least a 2.0 average and three physical education service courses.

The Bachelor of Fine Arts degree is offered with majors in Theatre and Musical Theatre only.

Each hour completed in the Theatre major in excess of 100 will add one hour to the total required for the B.F.A. degree.

Detailed information is given under Theatre and Dance and under Music in the Courses of Instruction section of this catalog.

Students must also have a cumulative grade point average of at least 2.0 to receive the Bachelor of Fine Arts degree.

Bachelor of Music Education (B. Mus. Ed.)

Candidates for the B. Mus. Ed. degree must complete at least 180 quarter hours. If a "D" is received in a required major course, the department may authorize the use of that "D."

The candidate for the B. Mus. Ed. must complete the required Integrative Studies courses, the major in Music Education, the state requirements for certification in Music Education and three physical education service courses.

The B. Mus. Ed. degree is offered with a major in Music Education only.

Detailed information is given under Music in the Courses of Instruction section of this catalog.

Students must also have a cumulative grade point average of at least 2.0 to receive the Bachelor of Music Education degree.

Standards for admission to the Teacher Education Program and specific course requirements are found in the booklet Teacher Education Programs at Otterbein College, available in the Education Department office.

Bachelor of Science (B.S.)

Graduation with the B.S. degree requires the completion of at least 180 quarter hours with a grade of "A," "B," "C," "P" or "D." If a "D" is received in a required major course, the department may authorize the use of that "D."

The candidate for the B.S. degree must complete the Integrative Studies program, a major with at least a 2.0 average and three physical education service courses. All candidates for the B.S. must successfully complete French 100, 110 and 120, or German 100, 110 and 120, or Spanish 100, 110 and 120. Students who have taken the fourth year of any foreign language in high school and have received a grade of "B" or better in the fourth year are exempt from this requirement. Other students who have taken a foreign language in high school may take the College's Foreign Language Placement Test to determine whether they are proficient in Foreign Language 100, 110, 120 or all three. Students who demonstrate proficiency in Foreign Language 120 will have no further foreign language requirement unless further work is required for their major field. All candidates for the B.S. must successfully complete Mathematics 120 (Elementary Functions), Mathematics 170 (Calculus I) and Mathematics 180 (Calculus II). Students who have taken mathematics in high school may take the College's Mathematics Placement Test to determine their proficiency in mathematics. Some students may fulfill the B.S. mathematics requirement through the placement test.

A candidate for the Bachelor of Science degree may major in any of the following fields: Accounting, Business Administration, Chemistry, Computer Science, Equine Management, Life Science, Mathematics, Physics, Psychology and Sports Medicine.

The maximum number of quarter hours which may be completed in one field of study without adding to the total required for graduation is 65. Each hour in excess of 65 will add an hour to the total number required for the B.S. degree.

Requirements for majors are given by each department in the Courses of Instruction section of this catalog. Certification requirements for secondary teachers are available from the Otterbein College Department of Education.

Students must also have a cumulative grade point average of at least 2.0 to receive the Bachelor of Science degree.

Bachelor of Science in Education (B.S. in Ed.)

Candidates for the B.S. in Ed. degree must complete at least 180 quarter hours.

B.S. in Ed. candidates must complete the required Integrative Studies courses, the Elementary Education major or Kindergarten Primary major, the requirements for recommendation for certification in elementary education and three physical education service courses.

Detailed information is given under Education in the Courses of Instruction section of this catalog.

Students must also have a cumulative grade point average of at least 2.5 to receive the Bachelor of Science in Education degree.

Standards for admission to the Teacher Education program and specific course requirements are found in the booklet Teacher Education Programs at Otterbein College, available in the Education Department office.

Bachelor of Science in Nursing (B.S.N.)

Candidates for the B.S.N. degree must earn at least 202 quarter hours through completion of all courses specified in the B.S.N. curriculum plan. These courses include the required Integrative Studies and physical education courses. Detailed information is given under Nursing in the Courses of Instruction section of this catalog.

A minimum grade of "C" is required in all Nursing courses as well as Chemistry 110, 120 and 230; Life Science 170, 180, 190 and 300; and Health Education 290.

Students must also have a cumulative grade point average of at least 2.0 to receive the Bachelor of Science in Nursing degree.

Individualized B.A. Degree Program

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 program is offered. 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 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 adviser. Compliance with the approved program will be checked periodically by the Registrar's Office.
- d. Written recommendations from the faculty adviser 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.

Minors

Candidates for the Bachelors degree may earn a minor, but it is not compulsory.

A minor will consist of 20 to 30 quarter hours of required course work in one field of study or in an interdisciplinary group of courses.

Requirements for minors are given by the departments in the Courses of Instruction section of this catalog.

General Degree Requirements

The degree requirements of the College, as published in the catalog in effect at the time of the student's initial enrollment, are those which must be met for completion of a degree program. Subsequent changes in degree requirements, as published in the catalog or amended by the College Senate, may be substituted at the option of the student.

Students who interrupt their enrollment at Otterbein College or in an Otterbein College approved program for a period of one academic year or more, not counting summer session, must meet the requirements for graduation as published in the catalog in effect 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 in any quarter and will not prolong the time normally 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 each quarter. Candidates for degree must make application for degree in the Office of the Registrar. Application must be completed prior to the beginning of the quarter in which your degree is to be completed.

Earning a Second Degree

Students may earn a second degree from Otterbein College.

If the first degree was earned from Otterbein, the student must fulfill all course requirements for both degrees, complete a minimum of 45 quarter hours beyond the total required for the first degree and fulfill the requirements for a complete, different major for each of the degrees.

Normally a second degree is attempted after the completion of the first. If a student completes the requirements for two degrees at the same time and feels that both are important to his/her career goals, he/she may petition the Academic Council to have both granted simultaneously.

If the first degree was not earned from Otterbein, the student must fulfill all course requirements for both degrees, complete a minimum of 45 quarter hours at Otterbein beyond the total required for the first degree, fulfill requirements for a major different

from that of the first degree and complete at least 15 quarter hours in the major at the 300 or 400 course level at Otterbein.

Residence Requirements

To meet the residence requirement for a Bachelor's degree, a student must complete at least 60 quarter hours at Otterbein College. At least 30 of the final 45 hours which are applied to a degree must be completed at Otterbein College or in an Otterbein College-approved program.

At least 15 quarter hours in the student's major field must be completed at Otterbein College for all degrees. Bachelor's degree candidates must complete these hours at the 300 or 400 course level. Exceptions will be made only by the Academic Council.

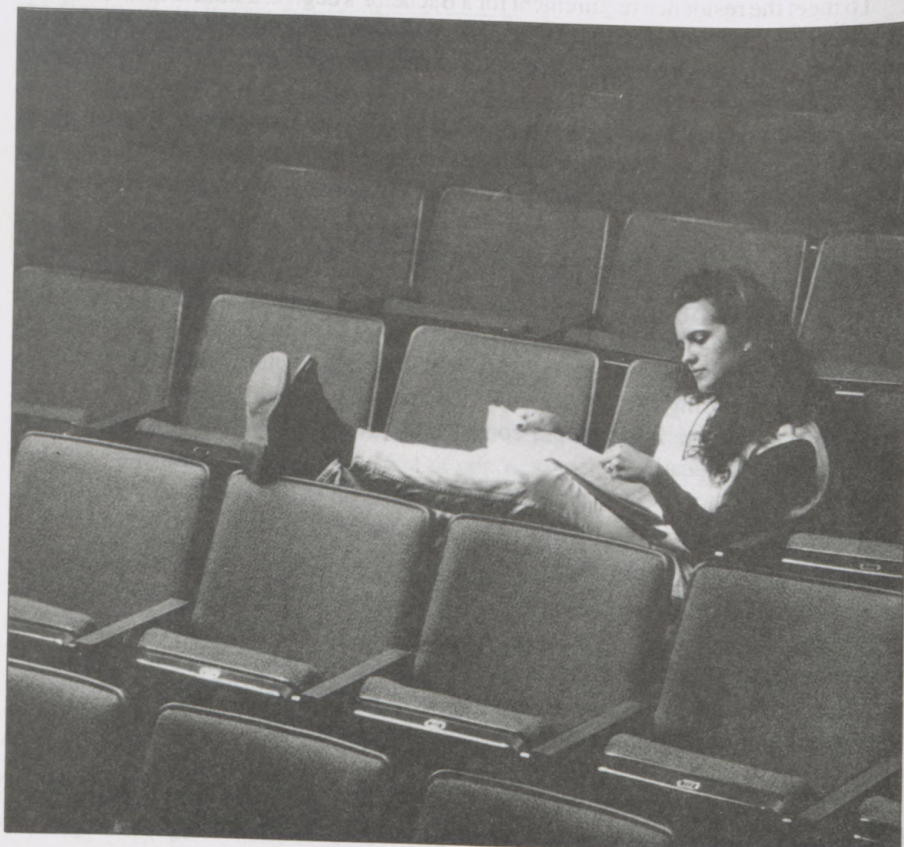
Master of Arts in Education (MAE)

The Master of Arts in Education (MAE) degree program is designed to serve the needs of practicing elementary and secondary school teachers. All classes are scheduled outside regular school hours; that is, late afternoon, evening and Saturday classes are scheduled during the school year, and day classes are scheduled in summer sessions. For further information, contact the Office of Continuing Studies or the Department of Education.

Master of Arts in Teaching (MAT)

The Master of Arts in Teaching (MAT) degree program is designed to provide an alternative route to teacher certification for individuals who have made the decision to seek certification after they have earned a baccalaureate degree. The classes are scheduled in the evenings or on Saturdays except for the culminating Internship which requires a full time commitment for 16 weeks. For further information, contact the Office of Continuing Studies or the Department of Education.

Special Educational Opportunities



Internships—Academic credit is granted in many departments for on-the-job experience which requires the application of knowledge in an agency, institution or business as a student intern. The potential for internships is available in every department. These opportunities, and others yet in the planning stage, acquaint students with career options, provide valuable work experience and help insure better job opportunities. Interested students should contact the chairperson of the appropriate department, the Associate Dean for Academic Affairs, or the Career Center.

Dijon, France Program—Students who have completed two terms of college-level French (French 100 and 110 or equivalent) may take advantage of an opportunity to increase their fluency and gain new cultural perspectives by studying in Dijon, France, under a program sponsored by Otterbein College. Students live in an international dormitory and take classes at the Centre International d'Etudes Francaises at the University of Bourgogne. Interested students should contact Professor James Carr in the Department of Foreign Languages.

The Philadelphia Center Plan—Sophomores, juniors and seniors in any major are eligible to apply to the Philadelphia Center, sponsored by the Great Lakes Colleges Association. The program provides opportunities for professional and intellectual development for students in a culturally diverse environment. Interested students should contact Dr. Eva A. Sebo in the Sociology Department for further information.

R.O.T.C. Programs—R.O.T.C. classes are held at The Ohio State University with Otterbein students enrolling through a cooperative agreement between the two institutions. Qualified students interested in obtaining an officer's commission in the Air Force, Army, Navy or Marines may enroll in the necessary R.O.T.C. classes at Otterbein and attend classes at The Ohio State University. Further information is available from Mr. John Wathen, Otterbein's R.O.T.C. coordinator. See the Financial Aid section of this catalog for R.O.T.C. scholarship details.

Segovia, Spain Program—Students who have completed two years of college-level work in Spanish are encouraged to participate in a study program sponsored by Alma College in Segovia, Spain. Otterbein students may also apply to other selected foreign study programs through the Intercultural Relations Committee. A list of these programs, as well as procedures for making application, is available from Charles Vedder in the International Student Programs Office.

Study Program at Roehampton—Otterbein College and Roehampton Institute, a federation of four colleges in Wimbledon, London, England, conduct an exchange program in the fall quarter. Otterbein sophomores, juniors and seniors in any major are eligible to apply. Participants enjoy a wide selection of courses at Roehampton and the rich cultural environment of London. Interested students should contact Charles Vedder, Director of International Student Programs. Application deadline: May 1.

Semester at Sea—Otterbein students can participate in the Semester at Sea Program, which is administered by the Institute for Shipboard Education and the University of Pittsburgh. Courses aboard the S.S. Universe "Floating Campus" are taught by a distinguished faculty, and in-port experiences are coordinated with the course offerings. Interested students should contact Charles Vedder, Director of International Student Programs Office.

Special Professional Opportunities—Students can earn a master's degree in forestry or environmental management by spending three years at Otterbein and two years at Duke University's School of Forestry. Interested students should contact Dr. Michael Herschler in the Department of Life & Earth Science.

The Washington Semester Plan—Otterbein College is a member of the Washington Semester Plan, in which students live in Washington, D.C., for one semester, preferably during their junior year. Washington Semester courses at the American University emphasize national legislation, urban affairs or international relations, and bring students into contact with government officials, lobbyists and journalists. Interested students should see Dr. Elizabeth MacLean, Towers 313, for further information.

HECC Cross-Registration—The Higher Education Council of Columbus (HECC) is an association of nine colleges and universities in Franklin County, established to develop programs which benefit its member institutions and the community-at-large. As a service to students, HECC-member institutions have approved a system of cross-registration for regularly-enrolled, full-time undergraduate students at the following colleges and universities:

Capital University
The Columbus College of Art and Design
Columbus State Community College
DeVry Institute of Technology
Franklin University
Ohio Dominican College
The Ohio State University
Otterbein College
Pontifical College Josephinum

Cross-registration is limited to one course per term, with a maximum of three cross-registered courses during a student's degree program. The course taken must be an enrichment class to the student's program of study at Otterbein. To participate in cross-registration, an Otterbein College student must be a full-time student in good academic standing. The Otterbein student does not pay tuition to the host institution, but may be charged other enrollment-related fees, such as laboratory or parking fees. A grade for the course taken at the host institution will be posted only on the student's Otterbein transcript. For more information, please contact the Registrar's Office.

Dual Degree in Engineering through Otterbein College and Washington University, St. Louis—Washington University cooperates with Otterbein College in a Dual Degree Program leading to a B.A. degree from Otterbein and a B.S. in Engineering from Washington University. Participants commonly follow a "3-2" schedule entering Washington University's School of Engineering and Applied Science after their junior year at Otterbein. Students who progress satisfactorily through the Dual Degree program attend Otterbein College for nine quarters/three years and then Washington University for four semesters/two years.

The Dual Degree Program is an attractive alternative to traditional engineering curricula which are typically highly structured and require much longer than four years to complete. Program graduates are "liberally educated engineers" possessing strong communication skills and a broad background in the humanities and social sciences as well as a high-quality technical education. They are perhaps uniquely prepared to advance in technical management and to play major roles in solving the increasingly complex problems faced by our society.

Admission



Otterbein College seeks to admit those students who are best qualified to benefit from the educational offerings of the College and to contribute to the campus community. Each applicant's credentials are reviewed individually; the major concern of the College is in assessing the student's preparation for success in our environment. Admission decisions are based on academic performance, standardized test results, and the potential for future growth and success. Special talents and participation in extracurricular and community activities will also be considered. Letters of recommendation and personal essays, although not required, may contribute to a candidate's evaluation.

Preference is given to applicants who have successfully completed a college preparatory curriculum consisting of four units of English, 3-4 units of mathematics, 3-4 units of science, 3-4 units of social studies, 2-3 units of foreign language, and 1-2 units in the performing arts. The College is aware of the diversity of programs and the variety of opportunities available in high school, and therefore admission consideration may also be given to students who show strong academic promise but may not have fulfilled the traditionally required curriculum. Students are admitted without regard to gender, race, national origin, sexual orientation, physical handicap or religious affiliation.

Campus Visits

The Office of Admission strongly encourages students to get a better understanding of student life at Otterbein by spending a day on campus. It is possible to visit classes, meet with our faculty and admission counselors, take a tour of Otterbein's facilities, share a meal in our dining hall, and talk informally with our students. It is advisable to make an appointment at least one week in advance of your visit so that individual conferences and tours can be arranged.

The Admission Office is open Monday through Friday from 8:30 a.m. to 5 p.m. Saturday hours are from 10 a.m. to 1 p.m. while school is in session.

To schedule a campus visit or receive answers to your questions about Otterbein, contact the Office of Admission, Otterbein College, Westerville, Ohio 43081. Our telephone number is 1-800-488-8144 or (614) 890-0004.

Application Process

A. First-time Freshman

Application forms may be obtained by contacting the Admission Office, Otterbein College, Westerville, Ohio 43081, phone (800)-488-8144 or (614) 890-0004.

Freshman applications may be filed anytime after the student has completed the junior year of high school. We strongly encourage students intending to enroll in the fall term to apply by February 1 of the senior year in order to be fully considered for acceptance, scholarships, financial aid and housing. Applications received by April 20 will be given full consideration. Those received at a later date will be considered on a space-available basis. Otterbein begins to review applications in October and follows a rolling admission process whereby completed application files are normally acted upon within two weeks of their receipt. It is necessary to provide the Office of Admission with the following credentials:

1. A completed application form and \$15 application fee.
2. An official copy of your current high school transcript.
3. An official record of your ACT or SAT scores. We will accept test scores as reported on an official transcript.

B. Transfer Students

An applicant for transfer from an accredited institution must present evidence of academic performance at least equal to that which is required of Otterbein students. Transfer students must present from any prior colleges attended an official transcript of all academic work attempted; courses completed or in progress. A completed application and an official copy of the student's final high school transcript must also be submitted.

C. Special Admission Procedures for First-time Freshmen and Transfer Students

In order to better assess the potential for an applicant's success, several of our programs require auditions or other information in addition to the credentials listed above.

Music. Applicants intending to pursue a major in Music must audition for admission to the Department of Music. Information regarding audition dates and arrangements may be obtained by writing to the Dept. of Music, Otterbein College, Westerville, Ohio 43081, or by calling (614) 898-1508.

Theatre. Students interested in Theatre as a major are required to audition or submit a portfolio for review for admission to the Theatre Department. Audition information and arrangements may be obtained by writing to the Theatre Dept., Otterbein College, Westerville, Ohio 43081, or by calling (614) 898-1657.

Learning Disabilities. Students diagnosed as having a learning disability are asked to submit a Psychological Educational Evaluation so that the Admission Committee can more accurately determine if the College can adequately accommodate the needs of the student. Otterbein does not offer a structured Learning Disabilities program, but we do offer support to learning disabled students through the resources of our Learning Assistance Center. Further information about Otterbein's offerings and facilities may be obtained by contacting the Learning Assistance Center, Towers Hall, Otterbein College, Westerville, Ohio 43081, or by calling (614) 898-1413.

D. Former Students

Any former Otterbein student who has either withdrawn on his/her own from the College or has been asked by the College to withdraw must apply for re-admission through the Admission Office. Former students must complete a current application for admission and forward any and all transcripts of grades from courses taken at any other institution since withdrawal from Otterbein. Any student who was asked to withdraw from Otterbein must, in addition, write to the appropriate office (Academic Council, Judicial Council) presenting his/her case for re-admission. If re-admitted, the student must meet the graduation requirements in effect at the time of re-entrance.

E. Transient Students

A student who is in good standing at an accredited college or university and wishes to enroll for one term only at Otterbein College, and expects to return to his/her former college for continued study may be admitted as a transient student. The student will not be required to submit a transcript, but instead, must present a statement of good standing and the approval of the dean or registrar from the home institution to register for courses. Transient Student Application forms are available from the Office of the Registrar.

F. Continuing Studies

Otterbein's Continuing Studies Program is designed for individuals who: 1) are 23 years of age or older, 2) are under 23 years who have completed a two- or three-year college program, or 3) have not been enrolled as full-time students in high school or college for a least one year. The program is also available to students who have earned a bachelor's degree.

Further information is available from the Office of Continuing Studies, Otterbein College, Westerville, Ohio 43081, or (614) 898-1356. *Also see the section under the heading, "Continuing Studies" beginning on page 43.*

G. Pre-freshman Program

High school students who have completed two years of high school (or who have junior standing) may register for one course each term at the college level under the following conditions:

A student will be admitted as a pre-freshman by the Office of Admission upon the submission of an Otterbein application, accompanied by a statement from the high

school principal (or his/her designated representative) indicating the student's capability of doing college-level work, a letter of recommendation from the high school teacher in the departmental area of the course in which the student intends to enroll and a statement of permission signed by the parents of the student. The application must be accompanied by a transcript of all high school work. High school students must have an overall 3.0 GPA and a 3.0 GPA for courses taken in the academic area in which they intend to enroll.

H. Graduates of Bachelor Degree Programs

Students who have already earned a bachelor's degree may enroll in Otterbein's undergraduate program by submitting an application, and a copy of all their official college transcripts including proof of graduation.

I. International Student Admissions

Recognizing the increasing need for understanding and good will among people of all nations, Otterbein College encourages international students to apply for admission. International students seeking admission should write to International Student Admissions, Otterbein College, Westerville, Ohio 43081, USA, for an international student application. They should submit the application with the following credentials:

1. **Transcript.** All international students must request an official copy of their academic credentials (transcript or record of grades) from the high school attended. Copies of transcripts are also required from each institution attended since graduation from high school. The transcripts should give a complete list of courses taken, the number of weeks and the number of hours per week in lecture and laboratory for each subject, and the grades received. If possible, each copy should be accompanied by an interpretation in English of the grading system. In cases in which examination results or grades are not released to the student, he/she should request that the proper school officials send the information directly to the International Student Admissions Office. Applicants should include copies of any diplomas or certificates received or the scores from any national examination taken.
2. **TOEFL.** Students whose native language is not English must send an official report of a score of at least 500 on the Test of English as a Foreign Language (TOEFL) or the equivalent.
3. **Proof of Financial Support.** Applicants are asked to send a bank statement and/or a sponsor's letter indicating that sufficient funds are on deposit or can be made available and will be used for the student's education.
4. **Application Fee.** Applicants must send a non-refundable application fee of \$25 in the form of a certified check or bank draft payable to Otterbein College.

Students transferring from another institution of higher education in the United States should write to International Student Admissions, Otterbein College, and ask for an International Student Advisor's Report form, which a current advisor must complete and return to Otterbein.

The application form should be completed and returned with the other credentials required at least two months before the beginning of the term for which the student seeks admission.

J. Graduate Students

Master of Arts in Education (MAE). The Master of Arts in Education degree program is designed to serve the needs of practicing elementary and secondary school teachers. To accommodate the practicing teacher, courses are scheduled after school, in the evenings, on the weekends and during the day over the summer.

Admission Standards—Admission to the MAE degree program is open to men and women who are graduates of accredited colleges or universities, hold a state teacher's certificate and give evidence of the intellectual, academic and personal ability to succeed in graduate studies. Admission may be granted on a regular or a conditional basis. Admission shall not be denied on the basis of sex, race, sexual orientation, creed, color, national origin, or handicap.

Admission Procedures—The following materials are required for students seeking admission as degree candidates:

1. A completed application for admission to graduate studies in education. Forms are available from the Office of Continuing Studies.
2. Official transcripts of all undergraduate and graduate work completed.
3. A copy of the teaching certificate. (After submission of the application, official transcripts, and copy of teaching certificate, the candidate may be permitted to register for graduate courses (up to 15 quarter hours) prior to completion of the admission process.)
4. Results of the Graduate Record Examination (GRE) or an approved substitute.
5. Two letters of recommendation (forms available in the Office of Continuing Studies).
6. A personal interview with the Director of Graduate Studies or his/her designee after steps 1 through 5 have been completed.

Materials required for admission to the graduate programs in education should be submitted to the Director of Graduate Studies, Department of Education, Otterbein College, Westerville, Ohio 43081. (614-898-1214)

Master of Arts in Teaching (MAT). The Master of Arts in Teaching degree program is designed to serve the needs of liberal arts or arts and sciences graduates, with little or no work in professional education, to qualify for initial state teacher certification.

The MAT programs are limited to the following certification areas: Elementary (grades 1-8) and Secondary (grades 7-12) in the teaching areas of Biology (Life Science), Computer Science, English and Mathematics.

Admission Standards—Admission to the MAT degree program is open to men and women of good character who hold the baccalaureate degree in liberal arts or arts and sciences from an accredited college or university, and who give evidence of the intellectual, academic and personal ability to succeed in graduate studies and become outstanding classroom teachers. Admission shall not be denied on the basis of sex, race, sexual orientation, creed, color, national origin, or handicap.

Admission to the MAT programs for persons who hold professional or specialized degrees may be possible, but deficiencies in general education will usually require additional course work at the undergraduate level prior to full admission.

Admission Procedures—The following materials are required for students seeking admission to the MAT degree programs:

1. A completed application for admission to graduate studies in education. Forms are available from the Office of Continuing Studies.
2. Official transcripts of all undergraduate and graduate work completed in any college or university. (After an interview with the Education adviser and submission of the application and the official transcripts, a candidate may be permitted to register for graduate courses (up to 15 quarter hours) prior to completion of the admission process.)
3. Results of the Graduate Record Examination (GRE) or an approved substitute.
4. Evidence of proficiency in oral and written communication and mathematics skills (if necessary, prospective students may take proficiency tests in these areas at Otterbein College).
5. Two letters of reference related to the applicant's qualifications to pursue graduate studies and to enter the teaching profession (forms available in the Office of Continuing Studies).
6. A personal interview with the Director of Graduate Studies or his/her designee after steps 1 through 5 have been completed.

Materials required for admission to the Graduate Programs in Education should be submitted to the Director of Graduate Studies, Department of Education, Otterbein College, Westerville, Ohio 43081. (614-898-1214)

Tuition Deposit

A \$100 non-refundable tuition deposit is required of all full-time students. For students entering in the fall term the deposit is due no later than May 1 of the year preceding fall enrollment, or if the student is accepted for admission after May 1, the deposit is due one month after the date of acceptance. New students enrolling in Winter, Spring or Summer terms will have deposit deadlines stipulated in their letters of admission. By meeting the tuition deposit deadline a student guarantees himself/herself space in our academic program. Students requiring housing should refer to p. 29 for information about reserving housing space.

Medical/Health Record

Students choosing to enroll at Otterbein will be required to submit a medical examination form that must be completed by a personal physician and returned to our Health Center.

Orientation

Orientation offers incoming students and their families the opportunity to visit with faculty, administrators, and current students. Freshmen will also meet many members of their own incoming class. Tour of the campus, discussion with academic advisers about course scheduling, and a taste of residence hall and dining hall living are scheduled to help new students become more comfortable on the Otterbein campus. More information can be obtained by contacting the Student Affairs Office, Otterbein College, Westerville, Ohio 43081 (614-898-1250).

Financial Assistance

A. Otterbein's Financial Aid Policy

Your college education is one of the most important economic decisions you will ever make. At Otterbein we believe that if we admit you to the College we should help you meet the costs of your education if you require financial assistance. Our financial aid policy is based upon the following principles:

1. We will attempt to meet the demonstrated financial need of each full-time dependent student offered admission to the College. Financial aid in the form of scholarships, grants, work-study programs and loans can provide the difference between the cost of undergraduate education and what you are able to pay from your family resources.
2. Scholarships earned by the student are awarded for four years of study, provided the student meets the criteria of the award.
3. Merit-based scholarships reduce loan obligations and/or work eligibility for students who also receive need-based assistance.
4. Need-based Financial Aid Awards will have loan and work-study components.

More than 90 percent of our full-time students receive some form of financial assistance. We believe that our financial aid policy helps make an Otterbein education affordable to students from all economic levels.

B. Eligibility and Application Procedures

1. MERIT-BASED ASSISTANCE—Otterbein offers a number of scholarships, based on academic ability, talent, and leadership potential. (Below is a list of those scholarships and awards.) With the exception of Department Scholarships and several endowed scholarships, all scholarships are offered to students at the time of initial entry to the College. Merit-based awards are offered without regard to financial need.

President's Scholar Awards—\$6,000—All first-time freshmen identified as Otterbein Scholars (see below) who have demonstrated outstanding scholarship and leadership will be invited to compete for one of 30 greater than half tuition scholarships through a special application and essay evaluation. The application deadline for President's Scholar Awards is February 1. The application review process begins November 1; priority is given to early applicants. All President's Scholar Awards will supersede Otterbein Scholar Awards. Recipients must maintain a yearly college grade point average of 3.0 or better.

Otterbein Scholar Awards—\$3,500—These are awarded to first-time freshmen who are in the upper 10 percent of their high school classes or who have a 3.5 or better grade point average on a 4.0 scale and an ACT composite score of 24 or higher, or a total of 1050 or higher on the SAT. Recipients must maintain a yearly college grade point average of 3.0 or better.

Otterbein Scholar Awards—\$2,000—These are offered to first-time freshmen who are in the upper 20 percent of their high school classes or who have a 3.4 or better grade point average on a 4.0 scale and have an ACT composite of 22 or higher, or a total of 1000 or higher on the SAT. Recipients must maintain a yearly college grade point average of 3.0 or better.

Endowed Scholarships and Alumni Awards—Endowed scholarships are provided through the generosity of alumni and friends who have a desire to help students attain an Otterbein education. There are more than 150 endowed scholarships ranging in value from \$600 to \$1,200 per year. Endowed scholarships are awarded on the basis of academic ability, extracurricular activities and a written essay. Recipients must be enrolled as full-time students and maintain satisfactory progress toward a degree to retain the award. Applications are available from the Office of Admission.

Ammons-Thomas Awards—The Ammons-Thomas Award is named for Bishops Edsel A. Ammons and James S. Thomas of the Ohio United Methodist West and East Conferences. Ranging in value from \$500 to \$4,000 per year, these awards are offered to qualified minority students after acceptance to the College and an evaluation of a written essay. A limited number of Distinguished Ammons-Thomas Awards of up to one-half tuition are also available to outstanding students. Recipients must maintain satisfactory academic progress toward their degrees. Applications are available from the Office of Admission.

Battelle Scholarships—Battelle Scholarship is awarded to incoming first-time students who show unusual leadership potential and intellectual promise. The scholarship is worth at least one-half the cost of tuition. The award is renewed annually providing the recipient maintains a 3.0 grade point average. To be eligible to apply for the Battelle Scholar Award, a student must live in or have graduated from high school in either Delaware, Fairfield, Franklin, Licking, Madison, Pickaway or Union counties of Ohio. Application materials may be obtained from the Office of Admission upon request and must be completed and returned to that office by March 1.

Department Scholarship Awards—Otterbein's academic departments award scholarships to upperclass students who qualify on the basis of criteria established by each department. For application information, students should contact individual department chairpersons.

Talent Grants—Talent grants are awarded to incoming students who demonstrate unusual ability and potential in art, music, speech communication and theatre. Talent grants are renewable for a maximum of four years subject to satisfactory performance as assessed by the department.

Music—Students who plan to seek a major in music or music education are eligible to be considered for music talent awards. An audition is required. Information about auditions and dates may be obtained by writing to: Chairperson, Department of Music, Otterbein College, Westerville, Ohio 43081. (614-898-1508).

Speech Communication—Awards are available to students planning a major in speech communication, broadcasting, business/organizational communication, speech education 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 Speech Communication, Otterbein College, Westerville, Ohio 43081. (614-898-1257)

Theatre—Theatre Talent Grants are available to students planning to seek a major in the Department of Theatre and Dance. Awards are based on ability, potential and high school experience in theatre. An audition or portfolio review is required. For information about auditions and dates, write to: Chairperson, Department of Theatre and Dance, Otterbein College, Westerville, Ohio 43081. (614-898-1657)

Visual Arts—Awards are made to students who plan to major in Visual Arts. Selections are based on the evaluation of a portfolio submitted by the student and an interview. For information, please write to: Chairperson, Department of Visual Arts, Otterbein College, Westerville, Ohio 43081. (614-898-1508)

United Methodist Scholarships—There are United Methodist Denominational and Conference Scholarships for United Methodist students available each year. Forty to sixty of these scholarships are awarded to Otterbein students each year. Applications may be obtained from the Office of Church Relations, Otterbein College, Westerville, Ohio 43081. (614/898-1206)

R.O.T.C. Scholarships—R.O.T.C. scholarships offered by the Army, Navy and Air Force are available to Otterbein Students. Four year R.O.T.C. students are eligible to apply for the R.O.T.C. College Scholarship Program, which provides the “off-campus” comprehensive fee, plus a book allowance and subsistence allowance. Application is normally made in the fall of the senior year in high school and must be completed by January 15. Selection is based on academic performance, ACT/SAT scores, scores attained on the Officer Qualifying Test and evaluation by a selection committee.

In addition to the four-year scholarships, three-year and two-year scholarships to qualified men and women are available in several areas. These scholarships provide the same benefits as the four-year scholarships. At present, R.O.T.C. scholarship recipients enrolled at Otterbein attend R.O.T.C. classes at The Ohio State University through contractual arrangements between the schools. Applications and further information can be obtained by contacting the Office of the Registrar.

2. NEED-BASED ASSISTANCE—To be considered for need-based financial aid, each student must file a Free Application for Federal Student Aid (FAFSA) and the Financial Aid Form (FAF) with the College Scholarship Service (CSS) by the April 1 priority date. The FAFSA may be obtained from your high school guidance counselor or the Financial Aid Office. Transfer students are required to submit a Financial Aid Transcript from each institution attended since high school.

Financial Aid may consist of single or combined offers of non-repayable scholarships and grants, loans and part-time campus employment. By filing the FAF you will be considered for all need-based financial aid offered by the College.

Pell Grants and Stafford Student Loans are awarded to eligible students attending at least half-time or in the summer. College funds are not available for students attending in the summer or less than full-time. Financial aid is awarded with the expectation that it will be renewed annually on the basis of funds available, academic progress toward a degree, and continued financial need. FAF applications must be submitted each year in order to renew aid. A suggested time line for filing the FAF is between January 1 and April 1 of the year preceding enrollment.

Below is a description of the types of financial aid offered or administered by Otterbein College. For further information about financial aid write to: Office of Financial Aid, Otterbein College, Westerville, Ohio 43081. (614-890-0004)

Grants

Otterbein Grants—Otterbein Grants are college funds awarded to students on the basis of demonstrated financial need.

Supplemental Education Opportunity Grants—A limited number of students who demonstrate a high degree of financial need are awarded federally funded Supplemental Educational Opportunity Grants (SEOG).

Sibling Grants—When two or more dependent sibling students are enrolled concurrently at Otterbein College, each student will receive a grant of \$500 for each year of concurrent enrollment.

Otterbein United Methodist Ministerial Grants—Dependent sons and daughters of United Methodist clergypersons, under full appointment, are assured the total grants from all sources is valued at one-half tuition. The definition of dependency is that which is used when applying for federal student aid. Children of retired or deceased clergypersons may also be eligible. Please contact the Financial Aid Office for specific information.

State Grant Programs—Ohio residents may receive Ohio Instructional Grants (OIG) of up to \$3,500 per year. Application is made directly to the Ohio Board of Regents. Applications are available in your high school. Students who are residents of Connecticut, Delaware, Pennsylvania, Rhode Island and Vermont may receive state grants which may be used to help meet educational costs at Otterbein College. Students from these states should contact their high school guidance counselors for further information.

Ohio Choice Grant—Residents of the state of Ohio who attend Otterbein on a full-time basis who had not attended an institution of higher education before July 1, 1984, are eligible to receive Ohio Choice Grants which have ranged from \$500-600 per year.

Pell—This is a federal program through which a student may receive up to a maximum yearly grant of \$2,300. Application is made by completing the FAFSA regarding the release of your information to the U.S. Department of Education.

Loans

Federal Perkins Loan—The Federal Perkins Loan Program is funded by both the College and the federal government. Low-interest long-term loans are awarded on the basis of demonstrated financial need. Interest is not charged while the student is enrolled at least half-time (six credit hours). Repayment begins six months after graduation or termination of at least half-time enrollment. The loan is repaid in installments with a minimum payment of \$30 per month (\$360) per year. The maximum repayment period is 10 years, though smaller loans (under \$3,600) will be repaid sooner. The current interest rate is five percent.

Federal Stafford Loan—Loans are available to all students enrolled in at least a half-time basis. These loans are financed through participating lending institutions such as banks, credit unions and savings and loan associations, and are insured by the government. The interest rate for new borrowers is variable and is set once a year. The federal government pays the interest for eligible need-based students while they are enrolled in at least a half-time basis. Students who do not have demonstrated need or full interest subsidized aid eligibility may borrow from the unsubsidized Federal Stafford Loan Program. The student is charged loan origination and guarantee fees for each loan that is made. A maximum of \$2,625 may be borrowed annually for the first year of undergraduate enrollment and \$3,500 the second year then a maximum of \$5,500 a year for the last two to three years of school. The total borrowed for undergraduate study cannot exceed \$23,000. Application forms are available at most lending institutions and should be completed at least six weeks before the funds are needed.

Federal PLUS/SLS Loans—PLUS (Parent Loans for Undergraduate Students) and SLS (Supplemental Loans for Students) loans are available to parents of dependent undergraduate students and independent undergraduates regardless of demonstrated need restrictions. These loans are financed through participating lending institutions such as banks, credit unions and saving and loan associations.

An amount up to the difference of the cost of education minus financial aid may be borrowed each year. The interest rate is variable, adjusted each year.

Repayment of PLUS and SLS loans generally must begin 60 days following disbursement. However, repayment of the principle may be deferred while the student is enrolled on at least a half-time basis. The lender will provide additional deferment details.

Additional Loan Programs

United Methodist Student Loan—Offerings received from the annual United Methodist Student Day provide loan funds for United Methodist students. The annual maximum loan is \$1,000 with interest at six percent charged each year from the date the loan is granted until repaid in full. A student may borrow once per calendar year. No more than \$6,000 may be borrowed during the student's entire educational program. Loan checks are made payable to the student and are issued only after the student is in classroom attendance at the college.

Interest accrues from the date the loan check is issued and continues until the loan

is paid in full. Monthly repayment of the loan plus interest begins six months after graduation or withdrawal and may be extended over eight years. A deferment may be arranged if the borrower returns to school in an accredited program.

To be eligible for a loan, an applicant must have been received into full membership in the Church, be a citizen of the United States and have permanent resident status and have a "C" grade average or better.

Applications may be obtained from the Financial Aid Office.

Teacher Education Loan Program—The Teacher Education Loan Program may provide a maximum loan of \$5,000 per year, \$15,000 cumulatively, for the cost of tuition and direct fees. The student must agree to teach in a subject shortage area in Ohio after graduation or be considered a minority student. Twenty percent of the loan will be forgiven per year of teaching service. The percentage is increased to 25 percent per year if the teaching service is completed in a specified geographic shortage area.

The anticipated shortage areas have included: Foreign Languages (K-12), Industrial Arts Technology (K-12), Mathematics (7-12), Physical Sciences (7-12). The subject areas are reviewed annually and may change. Applicants will be evaluated on ACT/SAT scores, grade point average, a statement of purpose (an essay written by the student describing why he/she wants to become a teacher), and four recommendations of education professors, administrators or teachers. Additional requirements stipulate the student:

1. Be a U.S. citizen or eligible non-citizen.
2. Be enrolled on at least a half-time basis at the time the loan is disbursed.
3. Be in good academic standing with a cumulative grade point average of 2.5 on a 4.0 scale.
4. Maintain satisfactory progress.
5. Admitted to the Education Department at a State Department of Education approved teacher college at the time the loan is disbursed.
6. Agree to teach in Ohio after graduation.

Applications will be available in the Department of Education or the Financial Aid Office. Any questions about the program may be directed to The Ohio Student Loan Commission, P.O. Box 16610, Columbus, Ohio 43266.

Henry Strong Loan—The Henry Strong Educational Foundation provides a limited number of loans to students with financial need. Eligibility for the loan is determined by the Financial Aid Appeals Committee and bears an interest rate of five percent.

The Henry Strong Loan may be granted to students under the age of 30. The amount of the loan is dependent upon need, the students personal resources, and available funds from other sources. The Foundation expects a student who has to borrow to use every means possible—scholarships, summertime employment, school jobs, etc.—to keep amount he/she must obtain to a minimum.

Pifer Loan—Pifer Loans are college-based, short-term loans made to students in emergency situations. Based on fund availability, the loan is approved after the student's request is reviewed by the Financial Aid Appeals Committee.

The Pifer Loan interest rate is eight percent and the minimum repayment amount is \$50. Repayment begins on July 1 of the academic year in which the loan is granted.

Employment

College Work-Study—This program is funded jointly by the College and the federal government and provides part-time employment to full-time students who demonstrate financial need. Selection of the recipients and determination of the amount each student may earn during the academic year is made by the Financial Aid Office. Students may work up to 20 hours per week during the autumn, winter and spring terms and up to 40 hours per week during vacation periods. Students are paid once a month by check for actual hours worked.

Job openings are posted in the Student Affairs Office. Students should apply for jobs soon after the beginning of classes. Employment is available in such departments and offices as the bookstore, dining hall, library, maintenance department, physical education center, residence halls and faculty and administrative offices.

Non-Federal Work-Study—Non-Federal Work-Study Program is funded entirely by the College and provides part-time employment primarily to students who do not demonstrate financial need. A limited number of jobs is available during both the academic year and the summer on a first-come, first-served basis. Students employed under this program must be enrolled as full-time in the undergraduate program (12 or more credit hours per term) and may not have previously received bachelor's degrees.

Employment is available in most departments and offices.

Additional Financial Aid Sources

Ohio Academic Scholarship—Ohio Academic Scholarships, each valued at \$1,000, are awarded by the Ohio Board of Regents to high school seniors who qualify on the basis of competitive academic credentials. The scholarship is renewed annually providing the recipient maintains satisfactory academic progress. Specific information may be obtained by contacting your high school guidance counselor.

Ohio National Guard Scholarship—Ohio National Guard Scholarships are available to eligible students who enlist in the Ohio Air or Army National Guard for a period of six years. The scholarship is renewed annually providing the recipient maintains satisfactory academic progress. Information may be obtained by contacting the local Ohio National Guard representative.

Vocational Rehabilitation Benefits—Benefits are available to eligible students who have disabilities that are considered a handicap to employment. Specific information may be obtained by contacting the local State Bureau of Vocational Rehabilitation office.

Ohio War Orphans Scholarships—Ohio War Orphans Scholarships are available to eligible children of disabled or deceased war veterans and children of persons declared prisoners of war or missing in action in Southeast Asia. The scholarship is renewed annually providing the recipient maintains satisfactory academic progress. Specific

information may be obtained by contacting the Ohio Board of Regents, Student Assistance Office, 30 East Broad Street, Columbus, Ohio 43215.

Veterans Benefits—Benefits are available to eligible veterans of the Armed Forces and eligible spouses, widows, widowers and children of veterans who died or are permanently and totally disabled as a result of service in the Armed Forces.

Employee Benefits—Many corporations and small companies offer financial aid benefits to employees or their children. Often these sources are overlooked by students and their families. For more information contact the personnel office or supervisor of your employer.

Paul Douglas Teacher Scholarship Program—The Paul Douglas Teacher Scholarship Program is a federally-funded program to provide college scholarships to outstanding high school graduates to enable and encourage them to pursue teaching careers at the elementary or secondary school level.

Students who graduate in the top 10 percent of their high school class may apply for scholarships of \$5,000 for each academic year of post-secondary education in preparation to become elementary or secondary school teachers. A student may receive scholarships for no more than four years.

Scholarship recipients are generally required to teach at the elementary or secondary level for two years for each year of scholarship assistance they receive.

Scholars must attend school on a full-time basis at a post-secondary institution in Ohio during an academic year and must pursue a course of study in any of the designated subject shortage areas. The Ohio Department of Education identified subject shortage areas have included: Industrial Arts (K-12), Foreign Language (K-12), Mathematics (7-12) and Physical Sciences (7-12). The subject areas are reviewed annually and may change.

Additional information and applications may be obtained by contacting the Ohio Student Loan Commission.

Payment of Tuition and Fees

Payment of Fees

Fees and charges are payable at the Business Office prior to the start of each term.

Term	Due
Autumn	August 15
Winter	December 1
Spring	March 1
Summer	May 1

All accounts not paid in full by the first day of each term are subject to a late payment fee of \$25 in addition to monthly interest at a rate of 1.5 percent per month. Loan funds or any other sources of financial aid not received by the first day of each term are subject to late charges and interest. Therefore, all loans should be applied for prior to July 1 to help ensure timely receipt.

All accounts must be paid in full in order for students to enroll in succeeding terms or to receive copies of transcripts. Otterbein reserves the right to recover all costs involved with the collection and/or litigation of delinquent accounts.

Fee Payment Plans

Meeting the expense of a college education is one of the larger investments made by most families. We at Otterbein understand the unique financial needs that often stand in the way of paying these expenses without dipping into life savings or going into debt with high-interest-rate loans. For this reason, students may elect one of the two types of plans for payment of comprehensive fee charges.

1. Pay for each term according to the schedule of fee charges and due dates as illustrated in the above payment of fees table.
2. Enroll in the 10 payment plan, sponsored by Otterbein College which spreads the cost of the entire academic year over 10 monthly payments. This plan—without interest charges—will permit you to program college costs into your family's monthly budget. Payments are scheduled to insure the money is on deposit with the College when it is needed at the beginning of each term. An information brochure, which includes an application form, will be mailed to you once you have been accepted for admission.

Schedule of Fees

Academic Year 1992-93

(Fees are adjusted annually to reflect current costs.)

Full-Time Students

	Total per Term	On-Campus
Tuition		\$3,834
Room* (Base Rate)		\$592
Board		\$777

Total for the Year

Tuition	\$11,502
Room*	\$1,776
Board	\$2,331

Equine Science Program Fee \$395 per course for:
Equine Science 110, 120, 130, 210, 220, 230, 311-312, 320, 330 and 340

Summer School (1992) \$152/cr. hr.

*Room rental fee is based on size of room and type of housing pattern. Fees range from \$592 to \$888 per term.

Part-time Students

1993 Winter, 1993 Spring

Undergraduate	\$134/cr. hr.
Graduate	\$165/cr. hr.

Special Fees

Applied Music (non-organ, per quarter term per half-hour lesson)	\$168
Applied Music (organ, per quarter term per half-hour lesson)	\$210
Credit by examination (per credit hour)	\$20
Late registration	\$50/\$75
Overload per credit hour	\$152
Professional term	\$200
Transcript	\$3
Returned check charge	\$25
Account escheatment fee	\$30

Otterbein reserves the right to change these rates within the period covered by this catalog.

Refund Schedule for Tuition, Room, and Board Charges

A refund schedule has been established for those students who withdraw from class. Application fees, laboratory fees, tuition deposit, applied music fees, and other similar charges are not refundable. The basic refund schedule for fall, winter and spring quarters is:

<i>Withdrawal prior to the first day of the term (by 5 p.m. on the Friday before classes start)</i>	<i>100% of fees due or paid</i>
<i>Withdrawal received in writing or in person by 8 p.m. on the Monday following the first week of the term</i>	<i>100% of fees due or paid less \$100 withdrawal fee*</i>
<i>Withdrawal received in writing or in person by 8 p.m. on the Monday following the second week of the term</i>	<i>70% of fees due or paid</i>
<i>Withdrawal received in writing or in person by 8 p.m. on the Monday following the third week of the term</i>	<i>60% of fees due or paid</i>
<i>Withdrawal received in writing or in person by 8 p.m. on the Monday following the fourth week of the term</i>	<i>40% of fees due or paid</i>
<i>Withdrawal received in writing or in person by 8 p.m. on the Monday following the fifth week of the term</i>	<i>20% of fees due or paid</i>
<i>Withdrawal received in writing or in person on the Monday following the sixth week of the term</i>	<i>10% of fees due or paid</i>
<i>Withdrawal after the sixth week of class</i>	<i>No refund</i>

* There is no withdrawal fee when a student withdraws from one or more courses, but is still enrolled for at least one course in the same quarter. When a student withdraws from all courses in which they were enrolled, the withdrawal fee is:

\$50 if previously enrolled for five or less hours and now carrying zero hours in the same quarter.

\$100 if previously enrolled for six or more hours and now carrying zero hours in the same quarter.

All financial aid recipients who receive a refund as a result of withdrawal may be subject to a Title IV refund calculation.

Student Living

Residence Life

Otterbein offers a unique selection of housing patterns. As a freshman, you will be housed in a traditional arrangement with two or more students in one room. You will be housed with other incoming freshman to allow you to interact with your peers. This allows you to socialize with other individuals experiencing similar issues of college life. As an upperclassman, you choose your roommate and the residence hall you would like to live in for the year. During your *freshman* and *sophomore* years, you are required to live in a residence hall unless you are 22, married, an eligible commuter, or you can get permission to live off-campus as a junior by the Dean for Student Development. Juniors and seniors who are active members of sororities and fraternities are eligible for residence in the sorority or fraternity house to which they belong.

The goal of the Otterbein College residence life program is to develop an environment where you can grow and develop not only intellectually but socially, emotionally, and physically. A professional staff of hall directors and resident assistants is employed by Otterbein College to assist you as a resident student. This assistance may come in the form of helping with the adjustment to college life, and the adjustment to living with a large number of students, the development of self and group responsibility, and the challenging collegiate academic work.

As within any community environment, it is necessary that guidelines and regulations be established to protect the rights and privileges of all individuals. These regulations are developed by the college community and published in the **Campus Life Handbook** which is distributed to all students at the beginning of fall classes. Copies of this publication can also be obtained by writing to the Office of Student Affairs.

For many, the residence life program presents a new and different way of life and an opportunity for meaningful involvement with many new people from various backgrounds. We strongly support the value of diversity and work to create a community where each individual feels valued and accepted. The residence hall experience will provide you with a chance to make decisions on your own, to accept responsibility for those decisions, and to learn from both the positive and negative experiences. Often the degree of learning in the residence halls is dependent on the degree of your involvement.

Hall Unification Board (H.U.B.)

Student input is critical to the programs developed within the residence halls. H.U.B. provides a vehicle so residents can help create, develop and carry through ideas for programs. These programs are designed to provide social and educational opportunities outside the classroom.

Programs range from recycling, workshops, multicultural programs, newsletters, intramurals, and volunteer projects in the community. Another important function of the group is the hall improvement project (HIP). HIP allows the board and the residents to purchase items to improve hall living. Past purchases include sweepers, movies, exercise equipment, and games. There is an opportunity for every resident student to become involved with programming.

Governance and Regulations

Otterbein College Governance Program—Activities of the College governance program are so diverse that you should be able to find an activity which will interest you. At the same time you will become acquainted with problems facing citizens in a self-governing society.

College governance gives students voting rights, along with faculty and administration, on all campus policy and decision-making bodies. In the College Senate, which is the major policy-making body, students sit in equal numbers with faculty and administrators. The same is true of most councils and committees on campus. All full-time students are eligible for election to the Senate.

The Otterbein College Board of Trustees has legal authority over all actions of the Senate. Three voting student seats and three voting faculty seats are on the 37-member board.

Alcohol—Otterbein recognizes the right of individuals to use alcoholic beverages provided it is done within the law and responsibly. However, the College also recognizes the right of individuals to refrain from using those beverages and to do so without undue pressure to imbibe. Therefore, use of alcoholic beverages is not permitted on campus, in campus buildings, or in fraternity and sorority houses.

Automobiles—The choice is yours if you want to bring an automobile to campus. Since parking spaces on campus are limited, possession of cars by students is not encouraged. You will have to purchase a permit for your car from Campus Security and have your car insured as required by the laws of Ohio or your home state.

Student Services

Activities—Involvement in activities at any college is an important part of a student's life. Through participation in extracurricular activities, you can extend your classroom experiences to the College, the community, and the world. Involvement in activities provides opportunities for leadership experiences which prospective employers look for in addition to strong academic backgrounds.

Career Development—The career paths open to Otterbein students are numerous. Otterbein graduates can be found in all levels of business, industry, government, social service, education, nonprofit organizations and the professions. The broad-based skills which develop through a liberal arts education in addition to the technical skills specific to your major will increase your potential for success throughout your career and provide you with the flexibility necessary in a constantly changing job market.

The key to obtaining a rewarding position when you graduate is to begin early to identify and evaluate your career and life goals. The Career Development Center and your faculty adviser are two major sources of help in defining these goals. Through counseling, on-campus programs and an extensive career library, the Career Center can provide information about a wide variety of occupations, as well as help you explore employment opportunities and present yourself effectively as a job candidate.

Part-time Employment—Opportunities for part-time employment, both on and off campus, are posted in the Student Affairs Office. Students eligible for federal work-study positions may make application and review available positions. Positions with

area employers, some of which may be career-related, are also listed and are updated daily.

Counseling-Academic: You will have a faculty member as your individual adviser. This advisor will help you with the decisions concerning courses and class scheduling. The Academic Dean's staff is available for counseling on academic questions.

Personal: The Student Affairs staff, including the College Chaplain, is available to help with social and personal problems. Staff members strive to ensure students have a place to turn for quality mental health services. Services are provided by licensed clinical psychologists both on and off campus and can be arranged through the Student Affairs Office. A limited number of visits are paid by the college.

Student Health Center—The Otterbein Student Health Center is open to provide health care for students from 9 a.m. to 5 p.m. Monday through Friday. A doctor is available two hours daily, Monday through Friday. Physician hours will be posted in residence halls and the Campus Center. Students are not charged for seeing the nurse but are charged for physicians services as well as for X-rays, laboratory services, and for some medications and supplies.

Sports

Intercollegiate Athletics—Otterbein College is a member of the Ohio Athletic Conference (OAC). With its founding in 1902, the OAC is the third oldest organization of its kind in the nation.

The Cardinals men's and women's intercollegiate teams are an integral part of Otterbein. Men compete in nine varsity sports: football, soccer, cross country, basketball, indoor and outdoor track, baseball, tennis and golf. Women participate in eight varsity sports: volleyball, cross country, indoor and outdoor track, basketball, softball, soccer and tennis.

Otterbein also has a very successful intercollegiate coed equestrian team.

Recreational Sports—Most students participate in recreational sports—both individual and organized.

Otterbein's intramural program includes women's programs in volleyball, softball and basketball. Men's programs includes flag football, basketball, softball, and volleyball. Coed activities include volleyball, aerobics, walleyball, basketball, handball, racquetball, badminton and softball.

The physical education facilities at Otterbein include the Rike Physical Education Recreation Center with basketball, volleyball, handball and racquetball courts, weight lifting equipment, a tartan track and three tennis courts.

The recreation facilities include four lighted outdoor tennis courts on campus, a softball diamond, a soccer field and an outdoor track for jogging.

Hoover and Alum Creek lakes are another resource for recreation. The lakes provide picnic areas and a place for water skiing and sailing. In Westerville, you'll find tennis courts, swimming pools, a roller skating rink, beach, volleyball, basketball courts and baseball diamonds in parks all over town. Canoeing is another popular pastime in Ohio, with many streams in the state set aside for this purpose.

Physical education service* classes include all of these activities, plus horseback

riding and scuba. You'll be encouraged to find something you'll enjoy from this wide selection while you're at Otterbein and after you leave the campus.

Social Activities

Sororities and Fraternities—The fraternity and sorority system at Otterbein College is more than 80 years old, which indicates an established and solid system. There are six sororities and seven fraternities. These groups were organized to provide opportunities for social and individual growth, to stimulate leadership and to encourage further interaction with other individuals and organizations.

Religious Life—Religious activities are an important and integral part of campus programming. Students are encouraged to choose from a variety of activities, programs and groups which will enable them to grow in their faith journey. Small group discussions and devotions, Bible study, worship services, service projects, retreats and volunteer opportunities are a few of the activities provided for the student by the Religious Activities Council and chaplain's office. Students are encouraged to grow in their relationships with God and other human beings as they strive to clarify values and search for meaning in their lives. All campus religious activities are interdenominational in character.

Performance Activities

Bands—The Cardinal Marching Band of 125 members includes the O-Squad drill team, twirlers, flag corps, and color guard. The band performs at home football games, professional football games, civic occasions and contests.

The Concert Band of approximately 85 members makes an annual tour in addition to performing on campus.

The Wind Ensemble is composed of members selected from the Concert Band.

The Jazz-Lab Band is a select group of 18 musicians led by members of Otterbein's adjunct faculty.

Orchestra—The Westerville Civic Symphony is a College-community orchestra of students, amateurs and semi-professionals. The ensemble performs classical, pop and school concerts during the academic year. Opportunities also exist for orchestral playing with the annual opera and musical.

Vocal Music Ensembles—The Concert Choir is a select group of mixed voices. It is one of the principal touring ensembles in the Department of Music.

Women's Chamber Singers and the Otterbein Chorale perform several times each academic year, both on and off campus. Membership is by audition.

Other Ensembles—The Early Music Ensemble presents several concerts each year of vocal and instrumental literature from the Middle Ages, Renaissance and Baroque periods.

The Percussion Ensemble performs two programs of contemporary percussion music on campus during the year.

Musical Theatre—Opus Zero is Otterbein's musical theatre ensemble; Opus One

specializes in vocal jazz. Both groups' membership is by audition.

Opera Theatre present a major production in the winter, and smaller works or scenes in the spring.

The spring musical is a cooperative undertaking of the Department of Music and Otterbein College Theatre.

Theatre—The Otterbein College Theatre, supervised by members of the Department of Theatre and Dance, produces six shows during the regular academic year and four in the Otterbein Summer Theatre. Outstanding features include yearly visits by professional guest artists to work with students in a production. Performers have included Hans Conreid, Tony Roberts, Kim Hunter, Pat Hingle, Robert Morse, Brock Peters, Robert Forster, Arnold Moss, Victor Jory, Donal Donnelly, Karen Radcliffe, David Graf and Charles Pistone.

A children's theatre production, a musical and several student-directed productions are scheduled annually. Guest directors and designers are a regular part of Otterbein College Theatre. Attendance at productions exceeds 25,000 people and student participation numbers about 200 students annually.

Communications Activities

Publications—College publications are under the review of the Publications Board, a subcommittee of the Campus Affairs Committee. The College newspaper, *The Tan and Cardinal*, is published by a student staff each week during the academic year, except during the summer term. *Quiz and Quill* is a publication of the Quiz and Quill Club and contains the best creative writing of current students. The College yearbook, *The Sibyl*, is published annually by a student staff.

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 weekly programming 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 Speech Communication. WOBN also offers co-curricular opportunities for students majoring in business administration, journalism, visual arts and other related disciplines. The station broadcasts 17 hours a day during the academic year, featuring a contemporary music format, Otterbein College sporting events and Westerville area news and public affairs.

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. This includes 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, American Forensics Association, National Forensics Association, National Debate Tournament, Cross-Examination Debate 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.

Cultural Activities

Throughout the year, there will be many opportunities to attend outstanding lectures, concerts and exhibits delivered and performed on campus by both on-campus and off-campus scholars and artists. In addition, there are a wide variety of cultural activities available in the city of Columbus.

Registration

Otterbein College is on a quarter calendar which means that there are three quarters during the school year (September-June) plus a summer quarter. Each course carries credit in "quarter hours" which is related to the number of class meetings per week.

The academic calendar is adjusted each year so that the autumn quarter ends the day before Thanksgiving. A break from Thanksgiving Day until after New Year's Day is utilized by students for holiday employment, ensemble or team tours, extended personal travel, or reading and research. Faculty members are involved in research, study, and workshops and seminars dealing with intellectual topics and instructional improvement. Each quarter of the school year consists of ten weeks and two to three days of final examinations. Students are expected to be present for the entire quarter and final examinations.

Class Standing

Class Standing is based on total credit hours earned.

STANDING	CREDIT HOURS EARNED
Freshman	0 through 44
Sophomore	45 through 89
Junior	90 through 134
Senior	135 and up

An "A," "B," "C," "P" or "D" grade contributes toward credits earned.

Any course with a final grade of "F" will be recorded on the student's permanent record but will not count as credit earned or toward degree requirements.

Symbols Used in Ranking Students

The symbols "A," "B," "C," "P," "D," "F," "W," "T," and "IP" are used in ranking students.

"IP" is the symbol given when the course requirements have not been met and a final grade cannot be given because of a situation beyond the student's control. The removal of the above condition must be accomplished during the following quarter. Arrangements must be made with the Registrar for completion of the course should the student not be in attendance at Otterbein College. If the condition is not removed within the specified time, the default grade will be assigned.

"W" is used to mark a course from which a student withdraws after the fifth week and before the eighth week of the quarter.

"P" is the symbol used to indicate passing work in a pass/fail course. "T" is the symbol used to indicate transfer credit from another institution.

Academic Standing

Good Standing

A student who maintains the minimum cumulative grade point average on a 4.0 scale as required on the chart below is in good academic standing.

Retention, Probation, Suspension, Dismissal, Warning

All students shall be reviewed for retention or other appropriate academic action at the end of each quarter. This review is based upon the number of earned hours or quality hours (whichever is greater) the student has accumulated as required on the chart that follows:

Earned Hours/Quality Hours (whichever is greater)	Minimum Cumulative GPA
1-20	1.00
21-30	1.40
31-50	1.70
51-65	1.85
66-270	2.00

Probation

Academic Probation occurs when a student's cumulative grade point average is below the minimum levels established on the chart above. Students placed on Academic Probation are required to meet the academic requirements of their probation and be in good standing within two quarters.

Suspension

Suspension occurs when a student earns less than a 2.0 term grade point average while on Academic Probation. A student will also be suspended when failing to gain good standing in the prescribed period. The first time a student is suspended, the student may apply for readmission after remaining out of school for at least one quarter. A student suspended for the second time must remain out of school for at least one year before applying for readmission. Credits earned at another school while a student is under academic suspension cannot be applied toward graduation at Otterbein. All readmission applications must be submitted to the Office of Admission and acted upon by Academic Council. Other information or steps may be required prior to consideration for readmission as determined by Academic Council. Readmission is not guaranteed.

Dismissal

Dismissal occurs when a student is suspended for the third time. Dismissal is permanent.

Warning

If at the end of any quarter a student's quarter grade point average falls below 2.0, that student will receive an academic warning.

Please Notice: In addition, the College reserves the right to refuse registration to a student who is failing to make satisfactory progress toward his/her college degree.

Courses in which "W's" and "IP's" are received count in the total attempted. A student must meet all graduation requirements by the time the 270th hour has been attempted.

Each student will receive a grade report at the end of each quarter, and a permanent transcript of all course work attempted and grades earned is maintained in the Office of the Registrar.

Auditing Courses

If space permits, full-time students and members of the College may audit a course each quarter at no cost with the consent of the instructor. Others will be charged the published audit fee. No grade is given for an audit and no entry will be made on the student's permanent record.

Transfer of Credit

A student must transfer all academic work attempted elsewhere to Otterbein for evaluation and credit prior to the beginning of the quarter in which the student enrolls. All transferred courses must carry grades of "C" or better. Violation of the requirement places the student in jeopardy of dismissal.

Withdrawal From Courses or From the College

If by the end of the fifth week (25th day) of the quarter the student withdraws from any course which began in the same quarter, no record of the registration in that course will appear on the student's academic record. Beginning with the sixth week (26th day) of the quarter and until 5:00 p.m. of the last day of the seventh week (35th day) of the quarter, a student may still withdraw from any course which began in the same quarter, but a record of the course will appear on the transcript. The grade "W" will be entered on the academic record.

Withdrawal from the College during the quarter constitutes withdrawal from all courses in which a student is enrolled during the quarter, therefore, the student's academic record will be affected in the same manner as stated previously.

Withdrawal from a course will not be permitted after 5:00 p.m. of the last day of the seventh week (35th day) of the quarter.

If a student stops attending any course and does not officially withdraw, his or her registration in the course will not terminate. The grade will be assigned under the grading criteria used to evaluate all students in the course. A course may be dropped only by completing and filing the proper form with the Registrar's Office. Non-attendance and/or non-payment of fees does not constitute official withdrawal.

Repeating Courses

A student may repeat any course which he or she has taken by registering for it again in the sequence indicated in the catalog. All grades are recorded, but only the most recent grade will be counted as credit earned toward graduation requirements and in the cumulative grade point average. Each repetition of a course is included in the total of those attempted.

Residence Requirements

To meet the residence requirement for a Bachelor's degree, a student must complete at least 60 quarter hours at Otterbein College. At least 30 hours of the final 45 hours, which are applied to a degree, must be completed at Otterbein College or in an Otterbein College-approved program.

At least 15 quarter hours in the student's major field must be completed at Otterbein College for all degrees. Bachelor's degree candidates must complete these hours at the 300 or 400 course level. Exceptions will be made only by the Academic Council.

Course and Registration Procedures

The requirements for all degrees are based on credit hours. A one-quarter-hour course normally meets one hour per week. Students are expected to spend three hours per week (including class hours) in study for each quarter hour of credit attempted. Throughout this catalog the terms “quarter hours,” “credit hours” and “hours” may be used interchangeably where applicable.

Returning upperclass students register in the spring quarter for the next academic year. New students are registered just prior to the beginning of the quarter in which they enroll. Registration for summer session begins in April. The Registrar will announce the specific dates of each registration. Proper registration is the responsibility of the student.

Part-time course load is defined as 1-11 credit hours per quarter, full-time is 12-18 hours and an academic overload is 19-20 hours. No student may register for more than 20 hours in a quarter.

A freshman may register for an overload in the second quarter if he/she has taken at least a full-time load the preceding quarter and made at least a 3.0 average that quarter.

Upperclass students may take an overload when the grade for the preceding quarter averages 3.0 or better and they have carried at least a full-time load in the preceding quarter.

The maximum credit which may be carried per quarter without an additional tuition charge is 18 quarter hours.

Policies On Prerequisites

1. Prerequisites (prereq) or corequisites (coreq) are requirements for a course which are judged necessary for the successful completion of a course. Students who don't successfully fulfill the prerequisites for the course would normally be at an educational disadvantage compared to those who have fulfilled the prerequisites.
2. Waiver of the prerequisites for a course is generally discouraged but may be done occasionally on a case-by-case basis. This waiver may be granted only by the instructor of the course after that instructor's assessment of the specific student's history and experiences. Prior to granting the waiver, the instructor must be reasonably assured that the student has had courses, background experiences, or abilities which would generally be equivalent to, or serve to negate the necessity of, the prerequisites. The instructor must also be reasonably assured that the student will not be at an educational disadvantage compared to students who have completed the prerequisites.
3. Waiver of a prerequisite by the instructor does not, expressly or by implication, constitute a representation or assurance of the successful completion of the course. The student remains fully responsible for his/her performance in the course.

Policies Concerning 390 and 395 Course Numbers

1. Independent Study hours (a 390 course number) are to be counted as field of study hours. A maximum of 10 credit hours of independent study may be counted as fulfilling major or minor requirements. This maximum may be lower at the

discretion of the department. No more than 15 quarter hours total in all fields of study may be counted toward graduation.

2. The 395 course number is used solely for developing new courses in all fields of study. The 395 course hours are to be counted as field of study hours. A maximum of 10 credit hours of 395 course hours may be counted as fulfilling major or minor requirements. This maximum may be lower at the discretion of the department. No more than 15 quarter hours total in all fields of study may be counted toward graduation.

Late Registration

The first two days of each term will be designated as late registration days. No new registration will be allowed after day two.

Late fee penalties will be assessed as follows:

Day One\$50

Day Two\$75

Late fees must be paid immediately and may not be charged to the student's bill. Late fees may later be appealed in writing to Academic Council, if the student has a valid reason for requesting such a refund.

Only active students who have already completed the admission process will be permitted to register late. No new students will be accepted through the late registration process.

Change of Schedule

Students must take the following course of action in order to change their schedules:

1. Obtain a change-of-schedule form from the Registrar's Office.
2. Discuss the proposed change with their academic adviser and have the adviser sign the form.
3. Return the signed form to the Registrar. The add or drop is not valid unless this step is taken.

Note: Notification by the student to a professor or adviser does not constitute a change of schedule. The above procedure must be followed.

A Change-of-Schedule period is held during the first week (five days) of each quarter. Classes may be added during the first three days of that period but classes may be dropped, without a fee, the first five days.

Getting Credit For What You Know

A student may apply to the Registrar for permission to attempt an examination through the CLEP or ACT-PEP test. A student must score at or above sophomore level norms (60th percentile, general; 50th percentile, subject area) to receive credit for a course on the basis of a CLEP test and at or above the 50th percentile to receive credit on the basis of an ACT-PEP test. The fee for recording credit on the basis of CLEP or ACT-PEP is \$10 per course.

If a test is to be administered by a professor, the Registrar, through the student, will receive approval of the professor and his/her department chairperson. The professor, by written or oral examination, will determine whether credit is appropriate.

An application for credit by examination may be obtained at the Registrar's Office and must be completed and approved prior to taking the examination. Once the exam

has been graded, the student receives credit on his or her transcript if he or she passed the exam. If the student fails, he or she can receive credit only by taking the course. The student cannot retake the exam.

Students must pay the credit-by-examination fee prior to taking the examination. An additional fee may be charged for laboratory examinations. The professor concerned will provide a syllabus of the course and several sample questions. Departments will decide the courses a student may attempt by examination. Whenever an approved PEP or CLEP exam exists, the student will take it instead of a similar departmental exam.

Advanced Placement Program

You may apply to the College for credit for courses taken in high school for which you completed the Advanced Placement Examination (APE) administered by the Educational Testing Service, Princeton, N.J.

A student earning scores of four or five on an Advanced Placement Examination will receive credit equivalent to that carried by the introductory course in the field in which the APE was taken and will also receive advanced placement. The level of placement will be determined by the department.

A student receiving a three will receive advanced placement only. A student receiving two or below will not receive advanced placement. You must have the Educational Testing Service report your APE results directly to the Otterbein College Registrar.

Academic Support Services

Many students become concerned about their academic progress. Otterbein provides the following support areas:

Career Development Center—offers free workshops, individual conferences and written materials for students interested in planning for or exploring future careers.

Mathematics Problem Sessions—are available for students enrolled in Math 110, 115, 116, 120, 170 and 230. These are student-directed tutoring sessions for anyone who needs help.

Learning Assistance Center—The Learning Assistance Center provides a variety of academic support services. The Writing Center provides drop-in consultation on writing projects in any subject area at any level. The Center, staffed by students and professionals, is open to all students who want to develop and refine their writing skills. Content area peer tutoring on an individual basis is available in most academic subjects. Non-credit individualized assistance from the professional staff is offered in areas such as time management, exam preparation, effective reading techniques and note-taking. The Learning Assistance Center also facilitates special academic arrangements for learning and physically disabled students.

Additional support services may also be available through individual academic departments. Contact the specific department if you need assistance.

Summer School

Traditionally, summer school courses have been planned for high school graduates who want to begin their college program early, regular Otterbein students who wish to accelerate their studies, and citizens of central Ohio who want to participate in special educational opportunities.

Our curricular and noncurricular programs offer an opportunity for men and women of all ages to continue their education as a means of professional advancement and personal development.

If you are not currently enrolled at Otterbein, you must be admitted as a regular, special, transfer, or transient student prior to completing registration.

For information on the summer session, you should contact the Office of Continuing Studies. An application form will be mailed to you. Once this form is returned, you will be billed on the basis of the courses listed on the application form. You may register for a maximum of 15 credits in the eight-week summer session.

If you wish to live in a residence hall, you should arrange housing through the Student Affairs Office. Meals may be purchased in the Campus Center.

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 choosing courses each year which 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 the intellectual stimulation gifted students deserve.

Students will be selected for the program on the basis of high school record and SAT or ACT test scores. Incoming students who are in the upper 10 percent of their high school class and have at least a 25 ACT composite or a 1010 SAT combined score, will be invited to join the Honors Program.

Often students who do not qualify for an Otterbein Scholar Award do outstanding work in college. Because we want to include these students in the Honors Program, any freshman or sophomore who earns 24 credits at Otterbein and has a 3.5 cumulative grade point average or better may be admitted to the Honors Program.

Your participation in the Honors Program will be recognized in two ways. Honors courses will be noted on College transcripts so that potential employers or graduate school admission committees will recognize that level of work completed. Those completing the Honors Program, who also have a cumulative grade point average of 3.6 or above, will graduate with College Honors—a fact that will be noted on the diploma.

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.

Graduation With Honors

To graduate from the College Honors Program, a student must have a final grade point average of at least 3.6 and must have completed at least 25 quarter hours of honors level courses with a grade of “B” or better. On the student’s diploma and transcript the following will be noted: “With Honors.”

The following honors may be earned by a student without participation in the Honors Program and are based solely on a student’s grade point average:

To graduate *Cum Laude*, a student must have a final grade point average of at least 3.6.

To graduate *Magna Cum Laude*, a student must have a final grade point average of 3.8.

To graduate *Summa Cum Laude*, a student must have a final grade point average of 3.95.

To graduate with departmental honors, a student must have achieved a final grade point average of at least 3.7 in all major field of study courses.

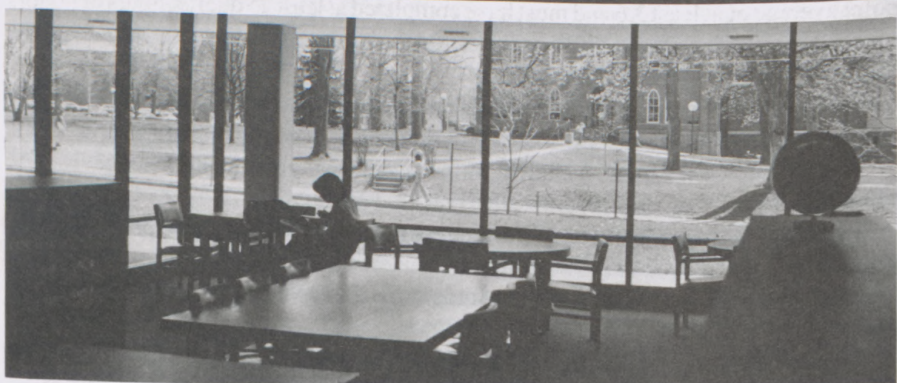
A graduate who has satisfactorily completed an approved program of independent study and research, who has submitted a thesis and has passed written and oral examinations on the field studied, is graduated “With Distinction.”

Course Numbering

The numbers appearing before course titles indicate the level at which the courses are to be scheduled. Exceptions to this pattern are indicated in the descriptive material following course titles.

- 1. Courses numbered 100-190 are to be scheduled during the freshman year.
- 2. Courses numbered 200-299 are to be scheduled during the sophomore year.
- 3. Courses numbered 300-399 are to be scheduled during the junior year.
- 4. Courses numbered 400-499 are to be scheduled during the senior year.

Continuing Studies



Otterbein's Continuing Studies Program, established in 1974, is designed to accommodate the unique needs of adult students. For the adult learner with typical commitments to family, career and community, the program offers evening classes and Weekend College, as well as traditional day classes; credit for prior learning through national and on-campus testing programs; simplified admission and registration procedures; assistance with financial aid application procedures; and advising and other services through the Continuing Studies Office.

The Continuing Studies Program offers some adult students the opportunity to learn new and useful perspectives or the chance to finish or begin college. Others enter the program to gain new career skills, to change careers, or to try the college experience. Students do not need to be degree-oriented. Most course offerings are for college credit, but a few non-credit classes are available.

All of Otterbein's degrees and majors are available to adult students and all degrees may be completed through day classes. Through evening classes, students can complete all course work for majors in Business Administration (management, marketing, finance, or general concentrations), Business/Organizational Communication, Accounting, Computer Science with Business Applications, Chemistry, Psychology, or Public Relations. Weekend College students can also complete all course work for majors in Business Administration (management, marketing, international business, or general concentrations), Business/Organizational Communication or Psychology. Since the core courses required for every Otterbein major are offered in the day, evening and Weekend College, many adult students combine time periods to suit their personal schedules.

Most continuing studies students begin by taking one course. Many admit they are concerned about rusty academic skills or the effect of past academic disappointments. But mature dedication and life experiences make adults very able students. Small classes, orientation sessions, individual attention, accessible staff and facilities, and a convenient suburban location help adult students find a pleasant and rewarding experience at Otterbein.

If you need assistance in formulating your educational plans, the Office of Continuing Studies can help. Call (614) 898-1356 to schedule a day, evening, or weekend appointment.

Degrees and Programs of Study

Majors Available Through Evening Classes

- Accounting
- Business Administration (Management, Marketing, Finance, or General Business Administration)
- Business/Organizational Communication
- Chemistry
- Computer Science with Business Applications
- Nursing: BSN for those who are already RNs (most courses available in the evening.)
- Psychology
- Public Relations

Majors Available Through Day Classes

Each quarter 34 majors and over 400 courses are available during the day. (For a complete listing of programs of study, see page four.)

Day-time schedules may be obtained by calling the Continuing Studies Office (614/898-1356).

Otterbein offers the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, Bachelor of Fine Arts in Theatre, Bachelor of Science in Education, Bachelor of Science in Nursing, Master of Arts in Education and Master of Arts in Teaching.

Majors Available Through Weekend College

- Business Administration (Management, Marketing, International Business, or General Business Administration)
- Business/Organizational Communication
- Psychology

Weekend College

Weekend College at Otterbein offers you classes which meet for four hours usually every other weekend (six weekends during the ten-week quarter) or meet every Saturday for ten weekends. Because weekend classes meet less frequently than day and evening classes, academic quality is maintained through independent study assigned during the interval between classes.

Through Weekend College, you can complete the general core requirements for any of Otterbein's majors. In addition, selected majors listed above may be completed in their entirety through Weekend College.

Weekend College appeals to students who can't attend classes during the week and to those who live more than thirty minutes from campus. It appeals to students who enjoy the flexibility of combining day or evening classes with weekend classes. It appeals to adult students who have developed a knack for independent study.

On the scheduled weekends, classes meet during all sessions listed under a single class category below:

- Class 1: 6:15-8:15 p.m., Friday plus
10:40 a.m.-12:40 p.m., Saturday
- Class 2: 8:25-9:55 p.m., Friday plus
1:15-3:45 p.m., Saturday
- Class 3: 8:30-10:30 a.m., Saturday plus
3:55-5:55 p.m., Saturday
- Class 4: 12:50-3:50 p.m., Saturday

In addition to meeting standard Continuing Studies admission requirements, new students interested in enrolling in Weekend College must schedule an interview with a continuing studies adviser.

Graduate Studies Programs

Otterbein College offers two distinct graduate degrees in education. First, the Master of Arts in Education (MAE) is designed for practicing, certified teachers or administrators who seek professional development through an advanced degree program. The following areas of specialization are available: Curriculum and Instruction, Reading, and Teacher Leadership and Supervision. Second, the Master of Arts in Teaching (MAT) is designed to provide an alternative route to teacher certification for individuals who have made the decision to seek teacher certification after they have earned a baccalaureate degree. Concentrations in Elementary Education and selected fields in Secondary Education (Computer Science, English, Life Science and Mathematics) are offered.

General Information

Admission

Through simplified procedures, you can complete admission to Otterbein College and register for classes at the Continuing Studies Office. There is no admission fee. During admission, you may choose to schedule an appointment with a Continuing Studies adviser or a faculty member. You are required to meet with an adviser if you plan to enroll in Weekend College.

Eligibility

If you are 23 years of age or older, you may seek admission into the program as a part-time or full-time student. If you are less than 23 years of age, you may seek admission through the Continuing Studies Office as a part-time student only if you have completed a two- or three-year college program, or if you have not been enrolled as a full-time student in high school or college for at least one year. The College's programs are also open to individuals who hold a bachelor's degree.

To become a Continuing Studies student, you must meet the College's general admission standards. Adult students are not required to take ACT and SAT entrance examinations, but if your past academic performance was marginally successful, you may be accepted as a special standing student.

Admission Procedure

Based on your educational goals, select the appropriate admission procedure:

1. Students seeking a degree and Weekend College students.

Complete the application; submit an official high school transcript or official transcripts of all previous college work; and arrange for an interview with a Continuing Studies adviser. By submitting an unofficial transcript, degree-seeking students are permitted to register part-time for one quarter as a provisional admit. Students planning to enroll full-time are required to submit all official transcripts before being admitted.

2. Students not pursuing a degree but seeking courses for college credit.

Complete the application; provide proof of high school graduation (high school transcript, copy of a diploma, copy of a college transcript or other proof); and if you choose, schedule an interview with a Continuing Studies adviser.

3. Graduates of Bachelor Degree programs who seek additional undergraduate work.

Complete the application; provide a copy of all college transcripts; and schedule an interview with a Continuing Studies adviser.

4. Transient students (students who are attending another institution and wish to take one or two courses at Otterbein to be transferred to the other institution).

Complete the application; obtain a transient student form, complete the front of the form, and send it to the Registrar at the other college. The Registrar at the other college must return the approved form to the Continuing Studies Office.

5. Students wishing to audit a course or take a non-credit course.

Complete the application; provide proof of high school graduation (high school transcript, copy of diploma, copy of college transcript, or other proof); and if you choose, schedule an interview with a Continuing Studies adviser.

Direct your requests for information and materials to Director of Admission, Continuing Studies Office, 100 Towers Hall, Otterbein College, Westerville, Ohio 43081 (614) 898-1356. This office serves as the admission office for all Continuing Studies students.

Advising

As a new Continuing Studies student, you will be advised by a counselor who will explain Otterbein's program, policies and procedures and help you schedule classes. Once you are admitted and have declared a major, you will be assigned a faculty adviser. If you remain a non-degree student or if you decide to delay choosing a major, you may continue to discuss scheduling new courses with Continuing Studies advisers. Keep in mind the rule that while you are not required to meet with an adviser every time you schedule a class, meeting with an adviser regularly will help you avoid conflicts with academic policies and mistakes in planning.

Registration For Continuing Studies Students

Registration is simple and on-going. After your first quarter of enrollment, you will receive a registration form and schedule in the mail several weeks before the beginning of each quarter. Complete the form and return it to the Registrar's Office by mail or in

person. The form permits you to schedule classes up to three quarters in advance, and you may register for classes at any time between the publication of a schedule and each quarter's registration deadline. When the next academic year's schedules are published in May, you can register for Fall, Winter and Spring quarters, assuring you convenience and your choice of classes for the coming year.

At the time of registration, you are required to pay a \$35 non-refundable deposit. This deposit is deducted from your tuition. If you register for more than one quarter at a time, the deposit applies only to tuition for the first quarter. The remainder of your tuition is due by the first day of class or, if you choose, according to one of the payment plans described in the next section.

You must follow registration deadlines:

1. You may register by mail up to one (1) week before classes begin.
2. You may register in person at the Registrar's Office up to 5 p.m. on the day designated as the last day to register for a given term.
3. Weekend College registration must be received by mail **OR** delivered in person by 5 p.m. on Friday one week before the beginning of Weekend College classes.

Payment Plans

In recognition of the fact that many adult students must carefully plan their finances to manage a household budget, Continuing Studies offers two convenient payment plans. Both plans are an alternative to paying fees in full by the first day of each term. Forms for these two payment plans are available in both the Registrar's Office and the Continuing Studies Office. If you choose to use one of these plans, please make arrangements before the beginning of the quarter. Both MasterCard and Visa are accepted.

1. *Three-Part Payment Plan*

You may divide your tuition into three payments. At least one third of your tuition will be due by the first day of class. The remaining balance will be payable in two payments due one month apart.

2. *Deferred Payment Plan*

If you qualify for your company's tuition reimbursement program, this plan will allow you to defer most of your tuition until the end of the quarter.

Financial Aid

To help you meet the costs of a college education, you may wish to apply for financial aid. Assistance paying for college expenses may be available to you through loans, grants, scholarships, and/or work-study opportunities. Because the availability of certain forms of financial aid is limited, prospective students are encouraged to make application as early as possible by completing the Financial Aid Form (FAF). FAF forms may be picked up in either the Continuing Studies Office or the College's Financial Aid Office. If you have any questions regarding the application process or the availability and awarding of financial aid, do not hesitate to contact the Continuing Studies Office.

Final Examinations

A final examination schedule for daytime classes is printed on the class schedule. Finals for evening classes are given at the scheduled class time which falls during the designated days for finals. Weekend College class finals will be given during the last class session of the term.

Continuing Studies Dean's List

Students who excel academically during a particular school year are recognized annually on the Continuing Studies Dean's List which is announced in June. Guidelines for the Dean's List are:

1. Students must complete a minimum of 15 quarter hours of work during the regular school year (Autumn, Winter, Spring Quarters)
2. Students must have A's or B's for all hours attempted.
3. Students must have a minimum Grade Point Average of 3.6.

Internships

Otterbein's on-campus and off-campus internship program allows you to supplement your academic studies with work experience. Through planned and supervised work experiences, you may earn college credit, gain on-the-job training, and apply your growing academic background to work related to your career choice. If you are interested in participating in Otterbein's internship program, pick up an application in the Continuing Studies office or the Career Development Center.

Policies

Residence Requirements

Students who are completing their first Bachelor's degree must fulfill the College's residence requirement. To meet this requirement a student must complete at least 60 quarter hours at Otterbein. At least 30 of the final 45 hours which are applied to a degree, must be completed at Otterbein or in an Otterbein College-approved program. At least 15 quarter hours in the student's major field must be completed at Otterbein for all degrees. Bachelor's degree candidates must complete these hours at the 300 or 400 course level. Exceptions will be made only by the Academic Council. Students who are earning a second degree must fulfill the residence requirement outlined in the following section.

Earning a Second Bachelor's Degree

Students may earn a second bachelor's degree from Otterbein College. If the first degree was earned from Otterbein, the student must fulfill all course requirements for both degrees, complete a minimum of 45 quarter hours beyond the total required for the first degree and fulfill the requirements for a complete, different major for each of the degrees. Normally a second degree is attempted after the completion of the first. If a student completes the requirements for two degrees at the same time and feels that both are important to his/her career goals, he/she may petition the Academic Council to have both granted simultaneously. If the first degree was not earned from Otterbein, the student must fulfill all course requirements for both degrees, complete a minimum

of 45 quarter hours at Otterbein beyond the total required for the first degree, fulfill requirements for a major different from that of the first degree and complete at least 15 quarter hours in the major at the 300 or 400 course level at Otterbein.

Transfer of Credit

Otterbein accepts credits earned at two- and four-year colleges or at universities which are fully accredited by a regional accrediting agency.

All transferred courses must carry "A," "B," or "C" grades and must approximate course subjects offered in the Otterbein curriculum.

A counselor will provide an estimate of your transfer credits during your initial interview. Once all of your official transcripts have been received and your registration is complete, the Registrar's Office evaluates your transfer credit and sends you a copy. This official evaluation usually occurs by the end of your first quarter of attendance.

Credit for Prior Learning

Students may earn credit for prior learning through CLEP/PEP examinations, the MOSBY RN Assess Test, completion of courses nationally recognized as transferable, on-campus credit by examination, or on-campus credit by portfolio. CLEP/PEP examinations are designed to serve students who have acquired certain kinds of knowledge which did not involve college credit. A student may take CLEP or PEP examinations at any time prior to or during enrollment at Otterbein. The MOSBY RN Assess Test is given once each quarter to nursing students who hold an RN either from a college or a hospital program and have been accepted into Otterbein's Nursing Program. Credit for courses other than those covered by national exams may be earned through on-campus credit by examination. Departments will decide the courses a student may attempt by on-campus examination. Upon satisfactory completion of an exam, credit can be recorded on the Otterbein transcript. For information on credit for prior learning, procedures and fee, contact the Continuing Studies Office.

Audit Option

With permission of the instructor or on a space-available basis, you may audit many day and evening courses. Course work completed under this option cannot apply toward a degree and no academic credit is received; however, a permanent record is kept of your enrollment. Audit fees are significantly lower than fees for academic credit.

Full-time versus Part-time Status

You may attend Otterbein as a part-time student or as a full-time student. Part-time students may take up to 11 hours of academic credit per quarter. Full-time students may take 12-18 hours of academic credit per quarter. To enroll in more than 18 hours of credit in a quarter, you must receive permission from the Academic Dean.

As a part-time student, you will pay a reduced tuition rate per quarter hour. Your total part-time tuition is figured by multiplying the number of quarter hours you are taking times the current part-time tuition rate. This reduced rate is made possible because a number of peripheral services are not available without charge to part-time students. These services include use of the Rike Physical Education Center, free tickets to theatre, athletic and artist series events, use of the Health Service, and participation

in student activities, the governance system, intramurals and athletics. However, many academic services are available. These services are described in the Facilities/Services section of this Catalog. Tuition for full-time students is figured from a base rate per quarter, which is not affected by the number of credit hours you are taking. All full-time students have access to the College's peripheral services, and full-time students may be eligible for additional financial aid which is not always available to part-time students. For more information, contact the Continuing Studies Office (614) 898-1356.

Part-time and full-time tuition rates are published in the Continuing Studies Program brochure, available in the Continuing Studies Office.

Interruption in Attendance

Continuing Studies students commonly find that personal or career demands cause them to interrupt their studies at Otterbein. To ease re-entry, the College does not require re-application unless you have been away from Otterbein for one year or more. If you do not take courses for one or two quarters, you continue under the degree requirements in effect when you enrolled originally. If you do not schedule courses for three or more quarters in a row, you will be responsible for fulfilling the degree requirements then in effect at the time of re-enrollment.

Drop/Add Procedures

Any change of schedule in which an adult student drops or adds a course but still retains at least one course, is considered part of the Drop/Add system. Adult students may add classes under this system from the time they receive registration materials until the end of the third day of classes.

Because of the nature of Weekend College classes, students may not add a Weekend College class after the Weekend College registration deadline.

If a part-time adult student drops a course after classes begin and retains at least one course, the student receives a refund based on the refund schedule listed below.

Withdrawal From Courses or From the College

If the student withdraws from any course by the end of the fifth week (25th day) of the quarter in which the course began, no record of the registration in that course will appear on the student's academic record. Beginning with the sixth week (26th day) of the quarter and until 5 p.m. of the last day of the seventh week (35th day) of the quarter, a student may still withdraw from any course which began in the same quarter, but a record of the course will appear on the transcript. The grade "W" will be entered on the academic record.

Withdrawal from the College during the quarter constitutes withdrawal from all courses in which a student is enrolled during the quarter; therefore, the student's academic record will be affected in the same manner as stated previously.

Withdrawal from a course will not be permitted after 5 p.m. of the last day of the seventh week (35th day) of the quarter.

If a student stops attending any course and does not officially withdraw, his or her registration in the course will not terminate. The grade will be assigned under the grading criteria used to evaluate all students in the course. A course may be dropped only by completing and filing the proper form with the Registrar's Office. Non-attendance and/or non-payment of fees does not constitute official withdrawal.

To withdraw from classes, you must provide written notice of your decision to the Registrar's Office. To assure receipt, you should submit your notice in person. If you wish to withdraw by mail, send written notice to the Registrar's Office. However, it is strongly recommended that you use certified mail (return receipt requested) since certified mail will guarantee receipt. It is your responsibility to make sure the Registrar's Office receives your written notice of withdrawal. These notices are dated on the day of receipt.

All withdrawals will be dated as of the date received by the Registrar's Office. (Contact the Continuing Studies Office or the Registrar's Office for the summer quarter refund schedule.)

NON-ATTENDANCE AND/OR NON-PAYMENT OF FEES DOES NOT CONSTITUTE AN OFFICIAL WITHDRAWAL.

Refund Schedule

Please refer to pg. 28 of this Catalog for a complete Refund Schedule.

Courses of Instruction

INTEGRATIVE STUDIES

A. Prindle (chairperson), and members of other departments.

Integrative Studies courses are directed toward the common theme "human nature," and attempt to integrate over the four years of an undergraduate education at Otterbein, perspectives from a variety of academic disciplines in the arts, the natural and social sciences, literature, religion and philosophy. All knowledge, viewed from this thematic orientation, becomes humanistic, and no single discipline of academic endeavor can remain isolated within this interpretation and evaluation of human experience. Along with an appreciation for the contributions and the methods of many academic fields, Integrative Studies courses involve interdisciplinary understandings.

Each course develops, explores, and challenges various theories of human nature and provides the student with training in critical analysis and written and oral expression. Together, the courses attempt to provide a coherent view of the continuum of ideas, movements, and patterns which have produced 20th century civilization and to supply the student with intellectual tools with which to face rationally the problems of contemporary and future humanity.

These courses are taken at specified times in the College program so that every student will be considering some aspects of the theme each year. Interclass discussion, lectures, performances and films supplement classroom work to provide a broadening of the student's understanding of his or her humanity consistent with the purposes of a liberal arts college. Students at the specified level will have preference over other students who may wish to register for a particular Integrative Studies course.

Curricular Pattern of Integrative Studies Courses

The following Integrative Studies course pattern applies to candidates for all degrees at Otterbein:

Lower Division Requirements

(To be met prior to the completion of 90 quarter hours of work):

Freshman Writing Options. One of the following three is required (5 hrs):

IS 100 Freshman Seminar *

or

IS 105 Growing Up in America *

or

IS 110 Composition and Literature: The Individual and Society

*Upper Division students must have permission of I.S. chairperson to register for these courses.

Social Science Requirement (5 hrs.):

IS 150 Issues in the Western Experience

Social Science Options. One of the following is required (5 hrs.):

IS 130 The Psychology of the Human Process

or

IS 160 World Geography and Human Society

or

IS 180 Encountering Cultural Systems

Sophomore Religion and Philosophy Options. One of the following is required (5 hrs.):

IS 250 The Philosophy of Human Nature

IS 260 Human Nature in the Christian Tradition

Sophomore Writing Requirement (5 hrs.):

IS 270 Composition and Literature: The Dialogue of Men and Women

Upper Division Requirements

(To be met after 90 quarter hours of work have been earned):

Junior Writing Requirement (5 hrs.):

IS 300 Composition and Literature: The Dilemma of Existence.

Fine Arts Options. One of the following is required (5 hrs.):

IS 310 The Art, the Artist, the Relationship

or

IS 320 Music and Human Nature

or

IS 330 Theatre and Human Nature

Science Options. Two of the following five are required (10 hrs.):

IS 340 Chemistry Affects Our Lives

or

IS 350 Biological Science

or

IS 360 Physical Science: Toward Order in Nature

or

IS 400 Earth Science and Humankind

or

IS 410 Our Place in the Universe

Requirement in Non-Western Cultures. One of the following is required (5 hrs.):

IS 380 Human Nature in Non-Western Religions

Other course offerings will be available 1994-95. Please consult I.S. chairperson or Registrar's Office.

For most degrees at Otterbein there are mathematics and foreign language requirements in addition to Integrative Studies. Students should consult specific degree requirements in the Degree Program section of this Catalog.

The substitution of alternate courses for specific Integrative Studies requirements is permitted subject to certain conditions. Please contact your academic adviser, the Registrar's Office or the Continuing Studies Office for additional information and an "Integrative Studies List of Approved Alternative Courses."

Integrative Studies Courses (InSt)

100 FRESHMAN SEMINAR

5 hrs.

Various topics concerning the theme "Human Nature" chosen from different disciplines and methodologies to aid the student in becoming aware of himself or herself as a person and a part of a group, in orienting the student to the purposes and potential of a liberal arts education, and in the developing of those skills necessary for success in an academic community. See the list of topics published each year with registration materials.

105 GROWING UP IN AMERICA

5 hrs.

This interdisciplinary course examines major movements in America from the Great Depression to the present, in order to understand how the historical and social developments of this century have shaped our personal lives and the lives of our parents and grandparents. Writing and critical thinking skills are emphasized. Readings are supplemented by films, lectures, music and art works.

110 COMPOSITION AND LITERATURE:

THE INDIVIDUAL AND SOCIETY

5 hrs.

A course in college level reading, thinking and writing. Integrative Studies 110 provides instruction and guided practice in written composition, and an introduction to the study of human nature which asks the student both to respond to his/her own experience and to examine representative poems, short stories and essays which treat of the self and the communities to which it may belong.

130 THE PSYCHOLOGY OF THE HUMAN PROCESS 5 hrs.
A general course designed to emphasize the human being from the viewpoint of the psychologist. The aim is to acquaint the student with the nature, development, methods and major findings of psychology. *Required for teacher certification.*

150 ISSUES IN THE WESTERN EXPERIENCE 5 hrs.
A study of the issues and ideas emerging in the making of Western societies, and an introduction to historical inquiry.

160 WORLD GEOGRAPHY AND HUMAN SOCIETY 5 hrs.
A study of human beings, their world-wide distribution and relationships to the physical, political, economic and cultural elements of their surroundings.

180 ENCOUNTERING CULTURAL SYSTEMS 5 hrs.
A study of the nature of the human being as a culture-builder and an introduction to analytical tools for the systematic study of cultures other than our own. The course provides students with a perspective from which to understand their own cultures and others and provides an anthropological basis for examining crucial human concerns.

250 PHILOSOPHY AND HUMAN NATURE 5 hrs.
This course examines the philosophical problems that have arisen when attempting to understand human nature. Some problems discussed are: free will and the possibility of determinism; the nature of the self and of 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.

260 HUMAN NATURE IN THE CHRISTIAN TRADITION 5 hrs.
An examination of human nature in the Christian tradition. Themes such as the image of God, sin, salvation, community, immortality and judgment are considered from the perspective of biblical theology.

**270 COMPOSITION AND LITERATURE:
THE DIALOGUE OF MEN AND WOMEN** 5 hrs.
Readings and writing instruction focusing on how literary works help us view relationships, love and romance, marriage and partnerships.

**300 COMPOSITION AND LITERATURE:
THE DILEMMA OF EXISTENCE** 5 hrs.
Readings and writing instruction focusing on how literary works respond to the great questions of human existence: what is the meaning of life? how can I live wisely and honorably?

310 THE ART, THE ARTIST, THE RELATIONSHIP 5 hrs.
An examination of the processes and products of the visual arts as manifestations of human nature. Includes a survey of significant visual art objects and those aspects of philosophy, psychology and sociology which have a bearing on artistic production.

320 MUSIC AND HUMAN NATURE 5 hrs.
An introduction to music from the listener's standpoint emphasizing its relation to the human being and society. *Music majors must register for Integrative Studies 310 or 330.*

330 THEATRE AND HUMAN NATURE 5 hrs.
A course designed to increase understanding and appreciation of artistic creativity in theatre arts as it reveals human nature. Emphasis on dramatic literature, history, criticism and process of production. *Theatre majors must register for Integrative Studies 310 or 320.*

340 CHEMISTRY AFFECTS OUR LIVES 5 hrs.
Studies of the benefits and risks of chemical processes. Focus on the society science interface from perspectives of the economy, physical health, ethics, and culture.

350 BIOLOGICAL SCIENCE

5 hrs.

A presentation and discussion of economic, health, ethical and cultural concerns of modern humanity from the viewpoint of Life Science. The nature of being in nature is the pervading theme, and facets of changing environments (i.e. rural to urban life) are studied along with biological man. The course requires the completion of several laboratory and field experiments.

360 PHYSICAL SCIENCE: TOWARD ORDER IN NATURE

5 hrs.

An examination of humanity's attempt to understand and control its physical environment through the practice of science. This course attempts to understand humanity by studying human efforts to develop models of the real world in which we live.

380 HUMAN NATURE IN NON-WESTERN RELIGIONS

5 hrs.

An examination of human nature from the perspective of a variety of non-Western religions. Topics include views of reality, definitions of human nature, paths of salvation, as well as the interdependence of religion and culture.

395 SPECIAL STUDIES

5 hrs.

Various topics of an interdisciplinary or multi-disciplinary nature. *Some offerings under this number require instructor's permission.*

400 EARTH SCIENCE AND HUMANKIND

5 hrs.

A study of the inter-relationships of humanity and the earth sciences of geology, oceanography and meteorology.

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 and rival cosmologies. Explorations in modern astronomy and in the historical context of our growing awareness of the universe will be supplemented by observational and experimental activity.

490 INTERNSHIP

5 hrs.

Internship associated with the Integrative Studies festival, designed by the intern and the festival chairperson through a learning contract process. Registration covers the full academic year. *Junior or senior student only; registration must be with approval of the chairperson of the Integrative Studies Department.*

ACCOUNTING

See description of Accounting major under the Department of Business, Accounting and Economics.

BUSINESS, ACCOUNTING AND ECONOMICS

Prindle (chairperson), Abdallah, Brown, Dennis, Heffelfinger, Huber, Jones, Kilian, Lewis, Mafi, Wallenbrock.

ACCOUNTING

A major in accounting consists of 80 or 85 quarter hours. Majors must take Accounting 200, 210, 370, 380; Business Administration 300, 340, 350, 480; and Economics 210 to complete the curriculum core; Mathematics 230; Speech Communication 280; English 335; and Mathematics 260. (Mathematics 260 applies to Bachelor of Arts degree candidates only.) The remaining twenty hours must be taken from the Accounting course listing.

Those preparing for internal accounting or auditing careers should take most of the accounting courses offered, particularly Accounting 290, Accounting 385, 420, and 430. For the CPA examination students must have at least 36 quarter hours of Accounting courses.

Those preparing for a managerial accounting career should take Accounting 290, 310, 385 and elective Business Administration 330. Accounting students planning graduate study in accounting or business administration should include Finance (Business Administration 420), Marketing (Business Administration 310), and additional economics courses in their program of study.

An accounting major should complete at least one computer science course, preferably Computer Science 100.

A student majoring in accounting and business administration must satisfy all requirements for both majors.

A **minor in accounting** consists of 25 quarter hours listed under the Accounting heading.

Accounting Courses (ACCT)

200 FINANCIAL ACCOUNTING

5 hrs.

The first course designed for students to become knowledgeable about the principles of recording, classifying and presenting financial data. *Prereq: Math 115.*

210 MANAGERIAL ACCOUNTING

5 hrs.

The second introductory course emphasizing the use of accounting for making decisions in the managerial environment. *Prereq: Acct 200.*

290 COST ACCOUNTING

5 hrs.

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

310 TAXES

5 hrs.

A general study of the factors composing taxable income for individuals and businesses. *Prereq: Acct 210.*

370 INTERMEDIATE ACCOUNTING I

5 hrs.

Application of accounting techniques and theory to recording and reporting of financial data. Emphasis on current and plant assets and current liabilities. *Prereq: Acct 210.*

380 INTERMEDIATE ACCOUNTING II

5 hrs.

Continuation of Accounting 370 with emphasis on long-term liabilities, stockholder equity and income determination. *Prereq: Acct 370.*

385 INTERMEDIATE ACCOUNTING THEORY

5 hrs.

Emphasis on current accounting controversies; pension and lease accounting, accounting for price level changes; reporting and disclosure issues. *Prereq: Acct 380.*

420 AUDITING

5 hrs.

Analysis of the independent auditing function. *Prereq: Acct 380.*

430 ADVANCED ACCOUNTING

5 hrs.

A study of partnership accounting, special sales procedures, consolidations and fiduciary accounting. *Prereq: Acct 380.*

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.

Study of topics related to accounting practice or theory.

BUSINESS ADMINISTRATION

The **major in business administration** consists of 12 or 13 required courses and at least 20 quarter hours of business administration electives. The required courses are: Accounting 200, 210; Business Administration 300, 310, 330, 340 and 480; Economics 210, 220 to complete the curriculum core; Mathematics 230; Speech Communication 280; English 335; and Mathematics 260. (Mathematics 260 applies to Bachelor of Arts degree candidates only.)

Twenty hours of business administration electives are required to complete the major. The department offers four concentrations which provide some degree of specialization. The concentration is not required, but emphasizes an important functional area of business administration. Students wishing to acquire a concentration are required to complete four of the electives shown in the respective areas below.

1. *Finance Concentration:* Business Administration 370, 420, 450, 460, Economics 380 and Accounting 310. A minor in Accounting is highly recommended.
2. *International Business Concentration:* Business Administration 370, 375, 385, 470, Economics 350 and 440.

In addition, students are encouraged to take two courses in the social sciences offered in the Integrative Studies Program, i.e., Encountering Cultural Systems and World Geography and Human Societies. Three terms of a foreign language are recommended, i.e., an additional course beyond the current 110 level to meet the College foreign language requirement for the Bachelor of Arts degree.

3. *Management Concentration:* Business Administration 320, 370, 385, 470 and 499.
4. *Marketing Concentration:* Business Administration 370, 375, 410, 430 and 440. A minor in psychology or public relations is recommended.

A **business administration major** should complete at least one computer science course, preferably Computer Science 100. Those preparing for an MBA program of study should consider completing Mathematics 170 and 180.

A double major in business administration and accounting or economics must satisfy all requirements for both majors.

A **minor in business administration** consists of 30 credit hours of business courses. One economics course and two accounting courses may be counted toward the minor. A general administrative minor that may complement other majors would consist of the recommended courses of Accounting 200, 210; Economics 210; and Business Administration 300, 310, and 340.

Real Estate courses are offered in the evening that lead to the Graduate Realtor Institute Certification.

Business Administration Courses (BADM)

300 PRINCIPLES OF MANAGEMENT

5 hrs.

Exploration of management principles based upon managerial experience and behavioral science concepts. *Prereq: Econ 210.*

310 PRINCIPLES OF MARKETING

5 hrs.

Presents fundamental management strategies in the marketing of consumer and industrial products and services: market selection and product, pricing, distribution and promotion strategies. *Prereq: Econ 210.*

320 PERSONNEL AND HUMAN RESOURCES MANAGEMENT

5 hrs.

Study of contemporary topics and procedures of personnel administration. *Prereq: Badm 300.*

330 OPERATIONS MANAGEMENT

5 hrs.

A study of production and service systems. Topics include forecasting, quality control, inventory decisions, production planning and scheduling, capacity planning, job design and work measurement. *Prereq: Badm 300 and Math 260.*

- 340 BUSINESS FINANCE** 5 hrs.
Instruction to financial management of business firms; financial analysis, planning and control; working capital management; capital investment decisions and required rates of return; capital structure decisions and sources of financing. *Prereq: Acct 210, Econ 210 and Math 230.*
- 350 BUSINESS LAW** 5 hrs.
A study of the legal aspects of business. Emphasis will be placed on the uniform commercial code dealing with obligations and contracts, agency, sales and negotiable instruments.
- 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 enterprise in the international environment. *Prereq: Econ 210 and 220.*
- 375 INTERNATIONAL MARKETING** 5 hrs.
The course focuses on the basic 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, the type of entry and the use of intermedia. *Prereq: Badm 310 or 370.*
- 385 INTERNATIONAL COMPARATIVE MANAGEMENT** 5 hrs.
This course will emphasize cross-cultural management analysis 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.*
- 410 RETAILING AND MERCHANDISING SYSTEMS** 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.*
- 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.*
- 430 ADVERTISING AND PROMOTION** 5 hrs.
The role of advertising, publicity, personal selling and sales promotion in the comprehensive marketing program of an organization. Each topic will focus on the methods and underlying behavioral theory. *Prereq: Badm 310.*
- 440 MARKETING ANALYSIS AND PLANNING** 5 hrs.
Case studies of marketing strategies for profit and non-profit organizations. *Prereq: Badm 310 and Math 230.*
- 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: Badm 340 and 420.*
- 460 INVESTMENTS ANALYSIS** 5 hrs.
Provides a conceptual and analytic framework for portfolio management from the viewpoint of the investor. *Prereq: Badm 340.*
- 470 INTERNATIONAL BUSINESS POLICY AND STRATEGY** 5 hrs.
This course will cover the formulation and implementation of multinational business strategy. Major concepts include: environmental scanning, planning location strategies, entry and ownership strategies, technology transfer, intracompany lineage and research. *Prereq: Badm 370.*

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' major functions—marketing, operations and finance. The course will stress the integration of knowledge and analytical skills acquired from other courses. Questions of social responsibility, ethics, and personal attitudes will be raised and discussed in the context of actual cases. *Prereq: All the core curriculum requirements.*

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. Five hours credit can count toward satisfying the Business Administration elective requirement. Credit cannot count toward satisfying the minimum number of courses required for a minor.

499 SEMINAR IN BUSINESS PRACTICE

2-5 hrs.

Special topics that offer in-depth study of some aspects of business. Small business management, organizational behavior, sales or others based upon student-instructor interest. *Senior standing required.*

ECONOMICS

A **major in economics** consists of Economics 210, 220, 310, 320; Accounting 200; and Business Administration 300, 310 to complete the curriculum core; Mathematics 230; Speech Communication 280; English 335; and Mathematics 260. (Mathematics 260 applies to Bachelor of Arts degree candidates only.) Twenty quarter hours of elective economics courses are required to complete the major. Students planning to pursue graduate study in economics should, as a minimum, complete eight economics courses and Mathematics 170, 180.

A **minor in economics** consists of Economics 210, 220, and at least 15 quarter hours of additional economics courses. A business administration or accounting major who pursues a minor in economics cannot count a specific economics course for both the major and minor program.

Economics Courses (ECON)

210 PRINCIPLES OF ECONOMICS—MICRO

5 hrs.

An introduction to the economic decision making processes of household, business and governmental organizations, with emphasis on price determination, income distribution and the productivity of economic factors.

220 PRINCIPLES OF ECONOMICS—MACRO

5 hrs

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

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.*

320 INTERMEDIATE MACROECONOMIC ANALYSIS

5 hrs.

An exploration of Keynesian, Post-Keynesian and Monetarist interpretation of national economic problems. *Prereq: Econ 210 and 220.*

350 COMPARATIVE ECONOMIC SYSTEMS

5 hrs.

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.*

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 enterprise in the international environment. *Prereq: Econ 210 and 220.*

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.*

420 CURRENT ECONOMIC ISSUES

5 hrs.

An analytical examination of current economic issues and problems, including government policies, trade, unemployment, and poverty. *Prereq: Econ 210 and 220.*

440 ECONOMIC DEVELOPMENT AND GROWTH

5 hrs.

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.*

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.

499 SEMINAR

2-5 hrs.

Special Topics/Independent Study projects in economics.

Real Estate Courses

The following courses are offered in the evening program for certification in real estate (Ohio).

230 PRINCIPLES AND PRACTICES OF REAL ESTATE

2 hrs.

An introduction to the profession of real estate as practiced in Ohio. Includes historical overview and a study of real estate values, markets, legal aspects, financing, tax factors and brokerage.

240 REAL ESTATE LAW

2 hrs.

A survey of real estate law effective in Ohio. Includes a survey of law dealing with licensing, titles, deeds, federal and state taxation, mortgages, contracts, zoning and civil rights.

250 REAL ESTATE APPRAISAL

2 hrs.

Methods of appraising residential property. Required for licensing and GRI certification.

260 REAL ESTATE FINANCE

2 hrs.

Methods of financing residential and commercial property. Required for licensing and GRI certification.

BUSINESS/ORGANIZATIONAL COMMUNICATION

See description of Business/Organizational Communication major under Department of Speech Communication.

CHEMISTRY

Jenkins (chairman), Place, Yang, Zisk.

A **major in Chemistry** can be met by completing any of the following three concentrations plus Mathematics 170, 180 and Physics 140, 150, 160. English 335 — Technical and Report Writing is recommended.

Chemistry — American Chemical Society-recommended Concentration (appropriate for careers in Chemistry or graduate school preparation): Minimum requirement: 62 hrs. including Chemistry 140/141, 150/151, 160/161, 240/241, 250/251, 260/261, 270, 280, 340/341, 350/351, 380, 400 and the 9 remaining hours elected from 390 or 400 level courses in Chemistry. An internship program in Chemistry is available but does not count toward the minimum requirement. No more than 4 hrs. of research (390) can count toward a major. Mathematics 190 is also required.

Chemistry — Health Sciences Concentration (appropriate for careers in medicine, dentistry, optometry, veterinary medicine, etc.): Minimum requirement: 45 hrs. including Chemistry 140/141, 150/151, 160/161, 240/241, 250/251, 260/261, 340/341, 400, 450, 460 and the 7 remaining hours elected from 270, 280, or 300 or 400 level courses in Chemistry. Note that Life Science 120 and 130 are required by medical schools.

Chemistry — Secondary Education Concentration: Minimum requirement: 48 hrs. including Chemistry 140/141, 150/151, 160/161, 240/241, 250/251, 260/261, 340/341, 350/351, 400 and the 10 remaining hours elected from 270, 280, or 300 or 400 level courses in Chemistry. Additional requirements are detailed by the Education Department.

A **minor in Chemistry** (30 hrs. Chemistry) is fulfilled by Chemistry 140/141, 150/151, 160/161, 240/241, 250/251, 260/261 and the 6 remaining hours elected from 270, 280, or 340/341.

Chemistry Courses (Chem)

110 SURVEY OF GENERAL CHEMISTRY

5 hrs.

A study of the interrelations of matter and energy; the course includes a laboratory. Usually taken by non-science majors. *Prereq:* One year of high school algebra and chemistry.

220 SURVEY OF BIO-ORGANIC CHEMISTRY

6 hrs.

Chemistry of carbon-containing compounds. Representative reactions of the various functional groups in organic chemistry are discussed and examined in the context of intermediary metabolism. *Prereq:* Chem 110.

230 BASIC PHARMACOLOGY

4 hrs.

Discussion of chemical/physiological effects of major therapeutic pharmacologic agents. Examines factors that affect the absorption and metabolism of drugs in clients from all age groups. *Prereq:* Chem 220, L Sc 170, 180, 190.

Note: Chemistry 110, 220, and 230 do not count toward a Chemistry major or minor.

140 GENERAL CHEMISTRY I

3 hrs.

Basic energy flow, atomic properties, reaction calculations, and reaction types are covered. *Coreq:* Math 115, 116, or 120.

141 GENERAL CHEMISTRY I LABORATORY

1 hr.

Experiments on the physical and chemical properties of matter are performed. *Coreq:* Chem 140.

150 GENERAL CHEMISTRY II**3 hrs.**

Continuation of Chemistry 140. The structure of atoms and molecules, intra-molecular and intermolecular forces and energy relationships are explored, as well as solutions, acid-base and oxidation and reduction concepts, and gaseous equilibria. *Prereq: Chem 110 or 140; coreq: Math 116 or 120.*

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

Continuation of Chemistry 141. Qualitative and quantitative experiments are performed which support the concepts covered in lecture. *Prereq: Chem 141.*

160 GENERAL CHEMISTRY III**3 hrs.**

Continuation of Chemistry 150. Acid-base equilibria, solubility and complex ion formation, and an introduction to nuclear, main-group and transition element chemistry. *Prereq: Chem 150 and Math 116 or 120.*

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

Continuation of Chemistry 151, with emphasis on inorganic synthesis, equilibrium studies, and including qualitative analysis. *Prereq: Chem 151.*

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, aliphatic hydrocarbons, and stereochemistry. *Prereq: Chem 160.*

241 ORGANIC CHEMISTRY I LABORATORY**1 hr.**

Experimental techniques are introduced in the laboratory through isolation of natural products, preparation of representative functional groups, and multistep synthesis of complex molecules. *Prereq: Chem 161; Coreq: Chem 240.*

250 ORGANIC CHEMISTRY II**3 hrs.**

Continuation of Chemistry 240, including a discussion of spectroscopy, aromaticity, alkyl halides, alcohols, ethers, and carbonyl compounds. *Prereq: Chem 240.*

251 ORGANIC CHEMISTRY II LABORATORY**1 hr.**

Continuation of Chemistry 241. *Prereq: Chem 241.*

260 ORGANIC CHEMISTRY III**3 hrs.**

Continuation of Chemistry 250, including a discussion of carbonyl condensation reactions, amines, and carbohydrates. *Prereq: Chem 250.*

261 ORGANIC CHEMISTRY III LABORATORY**1 hr.**

Continuation of Chemistry 251, emphasizing classical and modern qualitative analysis. *Prereq: Chem 251.*

270 INORGANIC CHEMISTRY**5 hrs.**

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

280 ANALYTICAL CHEMISTRY

A study of gravimetric, volumetric, and electrometric analytical techniques. An emphasis is placed on developing laboratory technique and data interpretation. Three lectures and two laboratories per week. *Prereq:* Chem 160, 161.

5 hrs.

340 PHYSICAL CHEMISTRY I

Theory and applications of molecular motion, kinetics, quantum theory, bonding, spectroscopy, and statistical mechanics. *Prereq:* Chem 160, Math 180, Phys 160.

5 hrs.

341 PHYSICAL CHEMISTRY I LABORATORY

Theory and applications of kinetics and bonding principles using spectroscopic instrumentation. *Coreq:* Chem 340.

1 hr.

350 PHYSICAL CHEMISTRY II

Continuation of Chemistry 360. Theory and application of thermodynamics. *Prereq:* Chem 160, Math 190, Phys 160.

4 hrs.

351 PHYSICAL CHEMISTRY II LABORATORY

Theory and applications of gas phase and thermodynamic quantitative measurements. *Coreq:* Chem 350.

2 hrs.

380 INSTRUMENTAL ANALYSIS

A study of the theory and applications of modern chemical instrumentation. Includes UV-VIS, FTIR, NMR and atomic absorption spectroscopies, gas and high performance liquid chromatography, electroanalytical techniques and computer interfacing. *Prereq:* Chem 260, 261, 280, 340.

5 hrs.

390 RESEARCH

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.

1-4 hrs.

400 SEMINAR

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

2 hrs.

410 POLYMER CHEMISTRY

An introduction to polymer science including morphology, molecular weights, kinetics of polymerization, viscoelastic properties, solubilities, additives, polymer technology, and monomer syntheses. *Prereq:* Chem 260, 340.

3 hrs.

440 ADVANCED ORGANIC CHEMISTRY

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

3 hrs.

450 BIOCHEMISTRY I

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.

3 hrs.

460 BIOCHEMISTRY II

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.

3 hrs.

470 ADVANCED INORGANIC CHEMISTRY

3 hrs.

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

480 SPECIAL TOPICS

2-4 hrs.

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

490 INTERNSHIP

1-15 hrs.

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

COMPUTER SCIENCE

See description of Computer Science major under the Department of Mathematics and Computer Sciences.

ECONOMICS

See description of Economics major under the Department of Business, Accounting and Economics.

EDUCATION

Fayne (chairperson), Albaugh, Deringer, Hamm, Kerney, Knight, Larson, Pettegrew, Robinson, Ryan, Stull.

A major in elementary or kindergarten-primary education consists of Education 160, 200 or 220, 210, 310 (and 320 for Kindergarten-Primary) 330, 350, 360, 450 and 470. Integrative Studies 130, 160; Speech 100; Physical Education 210; Health Education 250; History 110 or 120; Math 150 and 270; Music 270; Art 290; English 370; and two courses in science.

Elementary and kindergarten-primary students must complete an academic concentration area of at least 30 quarter hours in a discipline chosen from the humanities, mathematics, natural sciences or social sciences. See program book for specific areas approved.

A special K-12 Reading Teacher endorsement program that can be applied to any teaching certificate is available.

A student seeking **secondary teaching certification** is required to take Education 160, 200, 210, 360, 370, 380, 410 and 450. (See Education 450 course description for exceptions.) Subject-specific methods seminars and/or courses as well as junior level content specific field experiences are required. Speech 100, Integrative Studies 130, and one course in mathematics and one course in science are also required. See program book for specific course requirements.

Students may be recommended for a teaching certificate in the following areas: Chemistry, Communications Comprehensive, Computer Science, *Economics, English, Drama/Theatre, *General Science, Health, *History, Life Science, Mathematics, Music, Physics, Physical Education, *Political Science (Government), *Psychology/Sociology, Social Studies Comprehensive, Speech Communication, and Visual Arts. Reading Endorsement (K-12) may be added to any certificate. (An * means an additional teaching field is highly recommended.)

Students seeking special certification to teach in grades kindergarten to twelve should consult the program book.

Programs leading to Special K to 12 certification are available in Art, Computer Science, Drama/Theatre, French, Health, Music, Physical Education, Reading and Spanish. The Bachelor of Music Education degree program leads to Special K to 12 certification in music.

A program is available for the preparation of school nurses.
Special admission to the Teacher Education Program is required for teacher candidates. Applications for admission to teacher education will be submitted to the Teacher Education Committee after the student has completed Education 160 and is enrolled in Education 200 or Education 220. Standards for admission may be found in the booklet *Teacher Education Programs offered by Otterbein College*.

Education Courses (Educ)

160 STUDY OF THE SCHOOL

4 hrs.

A study of the school in society, the role of teaching personnel, an analysis of attitudes, values, knowledge, and skills needed for successful teaching and a self-analysis of one's own strengths. A minimum of 70 clock hours of field experience in elementary or secondary schools is included. Five clinical hours are also included.

200 EDUCATIONAL PSYCHOLOGY

5 hrs.

A study of child and adolescent growth and development. A survey of learning principles applied to elementary and secondary school aged children. A minimum of 20 clock hours of individual tutoring and ten clinical hours is included. *Prereq: INST 130 and Educ 160.*

210 COMMUNICATION MEDIA AND MATERIALS

2 hrs.

Development of competency in classroom communication, selection of media materials, and operation of media equipment commonly used in elementary and secondary schools. Twenty-five clock hours of clinical experience are included.

220 PSYCHOLOGY APPLIED TO PRIMARY EDUCATION

5 hrs.

A study of child growth, child development and the principles of learning applied to primary education. A minimum of 20 clock hours of field experience with children and ten clinical hours is included. *Prereq: INST 130 and Educ 160.*

310 INSTRUCTIONAL SKILLS AND CURRICULUM PLANNING

9 hrs.

A study of elementary school curriculum planning and teaching methods in language arts, mathematics, science and social studies. A minimum of 100 clock hours of field experience in elementary schools is included. Students must have half days available for field assignment. A minimum of 25 hours of clinical experience is also included. *Prereq: Educ 200 or 220 and admission to program.*

320 KINDERGARTEN-PRIMARY CURRICULUM

5 hrs. (alt. yrs.)

Curriculum planning, organization, teaching and social adjustment for preschool, kindergarten and primary levels. Educ 400 should be taken concomitant with, or in the quarter after, this course, and should involve a Kindergarten placement. For students seeking the Kindergarten-Primary and Pre-Kindergarten certificate. Open to others by permission of the Education Department. *Prereq or Coreq: Educ 310.*

330 READING SKILLS AND METHODS

5 hrs.

Skills of reading and methods of reading instruction for primary and elementary schools with laboratory experience in the use of reading materials, techniques and equipment. Fifteen clock hours of clinical experience are included. *Prereq: Educ 200 or 220.*

350 CHILDREN'S LITERATURE

3 hrs.

A study of folk literature, children's classics, poetry and modern prose for children. Evaluation and selection of books and literature for various developmental levels is emphasized.

360 MULTI-CULTURAL EDUCATION W/S

2 hrs.

Curriculum planning and teaching strategies for culturally diverse student needs. Racism, sexism, diverse learning styles and linguistic variation will be examined. *Prereq: Educ 200*

363 ADOLESCENT LITERATURE

3 hrs.

A course in which students will have an opportunity to read a wide variety of literature for adolescents, and, explore selection criteria, methods and rationale for presentation, and topics of concern in the field.

370 SECONDARY TEACHING METHODS

4 hrs.

A study of secondary school curriculum planning, teaching methods and ways of handling classroom problems. Includes 25 clock hours of clinical experience in the subject for which certification is sought. *Prereq: Educ 200 and admission to program.*

371-378 SECONDARY FIELD EXPERIENCE

4-5 hrs.

Includes a minimum of one hundred clock hours of field experience in the subject for which certification is sought. Students must have half days free for field assignments. In specified teaching areas, subject-specific seminars are also required (see below.) *Coreq: Educ 370.*

371 SCIENCE FIELD EXPERIENCE; 371.1 Methods Seminar

372 MATH/COMPUTER SCIENCE FIELD EXPERIENCE; 372.1 Methods Seminar

373 SPEECH/DRAMA-THEATRE FIELD EXPERIENCE; 373.1 Methods Seminar

374 SOCIAL STUDIES FIELD EXPERIENCE; 374.1 Methods Seminar

375 ENGLISH FIELD EXPERIENCE; 375.1 Methods Seminar

376 VISUAL ARTS FIELD EXPERIENCE; 376.1 Methods Seminar

377 HEALTH/PHYSICAL EDUCATION FIELD EXPERIENCE

378 FOREIGN LANGUAGE FIELD EXPERIENCE

380 READING IN CONTENT AREAS

2 hrs.

Methods of teaching reading in the subject field for secondary school teachers. Includes work in developmental and remedial reading techniques and diagnosis of reading problems. Fifteen clock hours of clinical experience are included. *Prereq: Educ 200.*

390 SPECIAL PROBLEMS IN EDUCATION

1 to 5 hrs.

Individual or group research discussion or practicum in education. May be repeated. *Permission of the department required.*

400 INDIVIDUAL CLINICAL OR FIELD EXPERIENCE

1 to 4 hrs.

A clinical or field experience involving work with children of school age planned to meet state certification requirements. A minimum of 25 clock hours is required for 1 hr., 50 clock hours for 2 hrs., 75 clock hours for 3 hrs. and 100 clock hours for 4 hrs. All work for credit must be approved by a member of the faculty in advance, supervised and evaluated.

410 STUDENT TEACHING SECONDARY LEVEL

15 hrs.

Teaching experience in junior or senior high school under the supervision of cooperating school teachers and a College supervisor. No prepared course work may be taken with student teaching unless it is part of a continuing teaching internship. *Prereq: Educ 370 or Music Methods sequence.*

440 READING DIAGNOSIS AND CORRECTION

5 hrs.

A study of techniques and instruments of reading assessment and planning corrective individualized programs in reading. Twenty-five hours of field or clinical experiences required. *Prereq: Educ 330.*

450 EXCEPTIONAL CHILDREN

3 hrs.

A study of the needs of gifted children and children with language, orthopedic, physical, mental and emotional handicaps. Techniques of mainstreaming exceptional children in regular classrooms will be explored. Twenty clock hours of clinical experience and five hours of field experience required. *Prereq: Educ 310 or 370. Note: Not required of students with credit in PhEd 360, Adapted Physical Education or B.S. in Music Education students.*

460 READING RESEARCH

3 hrs.

A study of research findings and current literature on the psychology and teaching of reading.
Prereq: Educ 330 or 380.

470 STUDENT TEACHING, ELEMENTARY LEVEL

15 hrs.

Teaching experience in an elementary school under the supervision of a cooperating teacher and a College supervisor. No prepared course work may be taken with student teaching unless it is part of a continuing teaching internship. *Prereq: Educ 310 and 330.*

480 READING PRACTICUM

4 hrs.

One hundred clock hours of clinical, field and tutoring experience with group and individual students related to remedial and developmental reading with a related seminar. *Prereq: Educ 440.*

490 TEACHING INTERNSHIP

5 to 15 hrs.

Teaching experience in elementary, middle, junior or senior high schools under contract to the school and supervised by a cooperating school teacher and a College supervisor. Applicants must be approved by the College and by the cooperating school system.

ENGLISH

Chaney (chairperson), Bailey, Cook, Daugherty, Gorman, J. Kengla, Martin, Prindle, Rittenhouse, Smith, Woodson.

Majors in Literature, Writing, Journalism

A **major in English** consists of 45 Quarter hours. Two specific concentrations in English may be pursued:

1. **Literature** requires English 155, 190, 310, 350, 380, 400. It also requires **one** from English 230, 231, 232, 233; **one** from English 250 or 320; **one** from English 255 or 330. (Students must take **one** American literature survey, either 250 or 255.)

Integrative Studies 110, 270, and 300 do not count toward the major.

Suggested electives for literature concentration: English 160, 295, 335; Journalism 160, 265.

2. **Writing** requires English 155, 160. It also requires **two** from English 260, 261, 262, 263; **two** from English 230, 231, 232, 233, 250, 255, 295; **one** from English 360, 361, 362, 363; **one** from English 310, 320, 330, 350, 380. English 460 is required of all writing majors. Integrative Studies 110, 270, and 300 do not count toward the major.

Suggested electives for writing concentration: English 294, 335; Journalism 160, 260, 280, 360, and 290 or 292.

Students planning to pursue **graduate study in English** should complete English 250, 255, 310, 320, and 330.

Students seeking **secondary teaching certification** may major in either literature or writing and should check with the department about additional requirements for certification.

A **minor in English** consists of a minimum of 25 quarter hours of credit in English courses with the provision that at least 10 quarter hours be at the 300/400 level. English 294, 390, 400 and Journalism 290, 292 may be a part of the minor only with the permission of the chairperson. Integrative Studies 110, 270, and 300 may not count toward the minor.

A **major in journalism** requires a total of 40 hours in the field of study, 18 hours of supporting courses in speech communication and visual arts, and 15 hours in a concentration.

Specific requirements in the field of study are Journalism 160, 260, 265, 280, 290 or 292, 360, 365, 490.

Required supporting courses are Speech Communication 230, 280, 410, and Visual Arts 150.

The concentration may be taken from the following areas: English literature, political science, history, any of the life sciences, business administration, math/computer science, education, women's studies, foreign language, international studies, psychology, religion, sociology or fine arts.

English Courses (Engl)

Literature Courses

155 WORDS AND FORMS: AN INTRODUCTION TO THE LITERARY IMAGINATION

5 hrs.

Entry-level course for both the literature and writing major. Emphasis on understanding the way language is used in literary works, with particular attention to metaphor, image, and form. Students will examine the transformation of life experience into literature, will learn to build contexts for literary works, and will write short creative pieces as well as literary commentaries.

190 LITERATURE: READING, INTERPRETATION, CRITICISM

5 hrs.

Foundation for the literature major 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.*

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. Offered in alternate years. *Designed for non-majors as well as majors.*

231 WOMEN WRITERS

5 hrs.

An exploration of the tradition of English and American women writers, with primary concentration on 19th and 20th century writers. The course includes the intensive study of at least one major writer in this tradition. Offered in alternate years. *Designed for non-majors as well as majors.*

232 LITERATURE FROM DIVERSE CULTURES

5 hrs.

Explorations of the significance and contributions of diverse literary traditions, such as American ethnic literatures (Native American, Jewish, Asian, and Hispanic), gay and lesbian literature, contemporary non-Western literatures (Latin American, African, or Caribbean). *The specific course topic will vary from year to year.* Contact department chairperson for more information. Offered in alternate years. *Designed for non-majors as well as majors.*

233 MYTH, FOLKLORE, AND LITERATURE

5 hrs.

An exploration of the forms and significances of myth, fairy tales and 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. Offered in alternate years. *Designed for non-majors as well as majors.*

250 AMERICAN LITERATURE

5 hrs.

Readings in American literature from the Colonial period through the age of Romanticism. Genres include histories, journals, essays, short fiction, the novel and lyric poetry. *Prereq: Engl 155.*

255 AMERICAN LITERATURE FROM 1865 TO PRESENT

5 hrs.

Readings in American literature from the Age of Realism to the present. Genres include essays, short fiction, drama, poetry, and the novel. *Prereq: Engl 155.*

294 LITERARY MAGAZINE PRACTICUM**1 hr.**

Supervised work, including choosing and editing copy and designing layouts, for the student literary magazine. Students attend weekly staff meetings and edit and publish the quarterly magazine. *Enrollment is by permission of instructor only. May be repeated for credit (to a total of 6 hrs.). Does not fulfill the publications practicum for journalism and public relations majors.*

295 LINGUISTICS**5 hrs.**

A study of the history and structure of the English language.

310 ENGLISH LITERATURE THROUGH 1660**5 hrs.**

A survey of English literature beginning with Anglo-Saxon writers and concluding with Milton. Emphasizes literary and cultural history and developing literary styles. *Prereq: Engl 155.*

320 ENGLISH LITERATURE FROM 1660 THROUGH 1900**5 hrs.**

A survey of English literature from the Restoration through the Romantic and Victorian Eras. Emphasizes developments in Neoclassical verse and satire, in Romantic and Victorian verse, in literary prose, and the novel. *Prereq: Engl 155.*

330 MODERN ENGLISH LITERATURE**5 hrs.**

Readings in American literature including poetry, drama, fiction and essays.

350 SHAKESPEARE**5 hrs.**

Study of a selection of histories, comedies and tragedies.

380 THE NOVEL AND NARRATIVE THEORY**5 hrs.**

Readings in a selection of 18th, 19th, and 20th century novels and in literary theory and criticism. Emphasizes development of the genre and of theories about narrative. *Prereq: Engl 155 and at least one from 250, 255, 310, 320, 330, or permission of the instructor.*

390 SPECIAL STUDIES**1 to 5 hrs.**

Independent study in literature or in writing. Open to seniors. *Permission of instructor and of department chairperson required.*

400 SENIOR SEMINAR**5 hrs.**

The topic, which changes annually, focuses on an era or a genre or an author; American and English literature will alternate in the selection of seminar topics. Seminar work includes reading literature and criticism, preparing oral reports and writing a literary research paper. *Prereq: Engl 310; 250 or 320; 255 or 330; or permission of the instructor.*

Writing Courses (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, non-fiction and drama), with writing exercises and practice in these genres. *Prereq: Engl 155.*

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.*

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.*

262 NON-FICTION WRITING**5 hrs.**

Instruction and practice in non-fiction writing, with special emphasis on the writing of essays and articles; students experiment with a variety of prose technique; instruction in research techniques; discussion and critique of both published and student writing by instructor and peers. *Prereq: Engl 160 or permission of department chairperson.*

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.*

335 TECHNIAL AND REPORT WRITING**5 hrs.**

The study and application of technical writing with an emphasis on the writing of reports.

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 only in the same terms as English 260; limited enrollment. *Prereq: Engl 260.*

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; will be offered in the same term as English 261; limited enrollment. *Prereq: Engl 261.*

362 ADVANCED NON-FICTION SEMINAR**5 hrs.**

Further practice in the writing of non-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; will be offered in the same term as English 262; limited enrollment. *Prereq: Engl 262.*

363 ADVANCED PLAYWRITING SEMINAR**5 hrs.**

Further practice in the writing of drama, weekly small-groups 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 263; limited enrollment. *Prereq: Engl 263.*

460 SENIOR WRITING PROJECT**5 hrs.**

Five hours total (two courses spread over two quarters, 2 hours and 3 hours)—an individualized tutorial focused upon the student's creation of a substantial body of writing in the chosen writing specialty. Emphasis in the first quarter will be on the creation of a prospectus and on drafting; in the second quarter, on the completion of the writing, on revising and critiquing with the faculty committee; the final project will include a written commentary by the student on his or her work. A grade will be given each quarter. *Senior standing. Registration with permission of department chairperson.*

Journalism Courses (Jour)

160 MEDIA WRITING

5 hrs.

Techniques of journalistic and mass communication writing designed to develop the basic writing skills for the print and broadcast media, including the applications of these skills to public relations writing.

260 NEWS WRITING

5 hrs.

The principles of newswriting for the print media. *Prereq: Jour 160.*

265 BEGINNING PUBLICATION DESIGN

5 hrs.

An introduction to typography and layout in printed journalistic communications, including use of computer desktop publishing techniques to produce practical publications. *Prereq: Jour 160 or permission of instructor.*

280 PUBLICATION EDITING

5 hrs.

The principles and problems of selecting and editing news stories and writing headlines for newspapers, magazines, public relations pieces and other printed literature. *Prereq: Jour 160, 260.*

290 NEWSPAPER PRACTICUM

5 hrs.

Supervised reporting and writing for the weekly student newspaper. Students attend weekly staff meetings and write stories based on covering campus beats. *Students must enter in the fall quarter and complete the hourly requirements within the academic year.* The course will be worth one hour in the fall quarter and two in each of the spring and winter quarters. *Prereq: Jour 160, 260.*

292 YEARBOOK PRACTICUM

5 hrs.

Supervised writing, design and editing on the college yearbook. Students attend weekly staff meetings and write stories, take photos and design and edit pages. *Students must enter in the fall quarter and complete the hourly requirements within the academic year.* The course will be worth one hour in the fall quarter and two in each of the spring and winter quarters. *Prereq: Jour 160, 260.*

360 ADVANCED 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 160, 260.*

365 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 magazine pages, brochures, booklets, and advertisements. *Prereq: Jour 160, 260, 265, 280.*

490 INTERNSHIP

5 hrs.

Practical applications of mass communication theory and skills through a supervised professional writing, editing or design internship, preferably with a professional newspaper, magazine or other printed communication. *Prereq: Senior standing.*

EQUINE SCIENCE

Calderone (chairperson), Sutton.

The department of equine science provides two majors, one in Equine Management and one in Equine Health Technology. **Equine Management** is designed for those students interested in pursuing a career within the equine industry. It consists of the following courses: Equine Science 111, 120, 121, 130, 131, 210, 220, 230, 280, 290, 311, 312, 320, 330, 340, 490; Chemistry 110 and Life Science 170 and 180, or Life Science 151, 152, and 153; Life Science 200 or 290; Accounting 200. It is strongly recommended that a minor in business administration be included in the program of the equine management major. Those wishing to major in Equine Management and prepare for entry into a college of veterinary medicine should schedule the appropriate supporting courses required by that college. These courses usually include inorganic chemistry, organic chemistry, physics, biochemistry, and genetics.

Equine Health Technology is designed for the student who wishes to be 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. Successful completion of requirements from both institutions will result in the Associate of Applied Science Degree from Columbus State Community College, the Baccalaureate degree from Otterbein College and registration as a Veterinary Technician by the Ohio Veterinary Medical Board. As students are expected to graduate from Otterbein College and Columbus State Community College simultaneously, all general education requirements for the Associate of Applied Science Degree in Veterinary Technology will be fulfilled through the Equine Health Technology degree from Otterbein College. Columbus State Community College's Veterinary Technology Program is accredited by the American Veterinary Medical Association. Students have the opportunity to do some of their clinical experience at The Ohio State University Veterinary Teaching Hospital.

The following Otterbein College equine science courses make up this major: Equine Science 110, 111, 120, 121, 130, 131, 210, 220, 230, 240, 280, 290, 311, 340. Other Otterbein College courses required for entry into the Columbus State Community College program include Chemistry 110, and Life Science 200 or 290. Columbus State courses include: VET 138 Veterinary Surgical Techniques, VET 124 Principles of Veterinary Radiology, VET 136 Animal Health and Disease I, VET 126 Principles of Veterinary Anesthesia, VET 135 Veterinary Hematology, VET 133 Clinical Application I, VET 291 Clinical Experience I, VET 254 Clinical Seminar I, VET 262 Veterinary Pharmacology, VET 266 Animal Health and Disease II, VET 267 Veterinary Urinalysis and Clinical Chemistry, VET 269 Veterinary Microbiology, VET 263 Clinical Application II, VET 293 Clinical Experience II, and VET 274 Clinical Seminar II. Interested students should contact the Department of Equine Science for additional information.

A minor in Equine Science (the equestrian minor) is designed for those students with an interest in the horse show industry and in teaching riding. The total number of required quarter hours for the minor is 25, which are to be derived from the following courses: Physical Education 100 - Riding (5 courses), Equine Science 110, 111, 120, 121, 130, 131, 250, 260; and Health Education 280. The equestrian minor requires participation in the Intercollegiate Team riding classes while the riding requirement (Physical Education 100 - Riding) is being fulfilled, and participation in a minimum of 10 Intercollegiate Horse Show Association horse shows. The student will also serve as a student representative of the Intercollegiate Team for a minimum of two Intercollegiate Horse Show Association horse shows.

Equine Science students attend Practicum every quarter in order to increase proficiency in a variety of areas, including jump construction, loading and trailering horses, tractor maintenance, bandaging for shipping or medical reasons, and common barn repairs.

All students in the Department of Equine Science participate in and/or assist with certain designated equine activities with which Otterbein College is associated, such as horse shows, clinics, and guest lectures.

Equine Science program fees are assessed for the following courses: Equine Science 110, 120, 130, 210, 220, 230, 311, 312, 320, 330, 340. An additional laboratory fee will be assessed students enrolled in Equine Science 280 and 290, if they are not concurrently taking an equine science course with a program fee.

Equine Science Courses (EqSc)

110 HORSEMASTERSHIP I LECTURE

3 hrs.

Introductory coursework covering the various types of equipment used in riding, showing and training. The quality, care, function and purpose of the equipment is emphasized. The history of horsemanship and evolution of the horse are covered as well.

111 HORSEMASTERSHIP I CLINIC

1 hr.

Introductory coursework emphasizing safety, grooming, clothing, tack and tack maintenance and basic horse psychology.

120 HORSEMASTERSHIP II LECTURE

3 hrs.

Introduction to basic nutrition, recreational use of the horse, basic conformation and associated unsoundness, gaits, and mechanics of movement. *Prereq: EqSc 110 or permission.*

121 HORSEMASTERSHIP II CLINIC

1 hr.

Clinical experience that corresponds with the Horsemastership II lecture. Emphasis is placed on conformation and associated unsoundness, gaits, and mechanics of movement.

130 HORSEMASTERSHIP III LECTURE

3 hrs.

Study of breeds and colors, breed conformation and judging; methods of training and conditioning for various breeds and uses; bringing a horse to peak athletic performance level; evaluating normal and abnormal parameters of the equine athlete. *Prereq: EqSc 120 or permission.*

131 HORSEMASTERSHIP III CLINIC

1 hr.

Clinical experience that corresponds with Horsemastership III lecture. Emphasis is placed on basic training techniques, conditioning, and the evaluation of normal and abnormal parameters in the equine athlete. *Prereq: EqSc 111 and 121, or permission.*

210 SYSTEMS COURSE I

5 hrs.

Lecture and clinic. A systems approach to the cardiovascular, hemilymphatic, respiratory and nervous systems and to the eye. Anatomy, physiology, associated diseases, prevention and care are stressed. *Prereq: L Sc 151, 152 and 153, or Chem 110, L Sc 170 and 180, or permission.*

220 SYSTEMS COURSE II

5 hrs.

Lecture and clinic. A systems approach to the gastrointestinal, muscular and skeletal systems, emphasizing the diseases and unsoundnesses associated with each. *Prereq: L Sc 151, 152 and 153, or Chem 110, L Sc 170 and 180, or permission.*

230 SYSTEMS COURSE III

5 hrs.

Lecture and clinic. A systems approach to endocrinology, the reproductive and urinary systems, and pediatrics. Included are the care of the broodmare and breeding stallion, techniques of natural and artificial insemination, recent developments in the use of frozen semen, and embryo transfer. *Prereq: L Sc 151, 152 and 153, or Chem 110, L Sc 170 and 180, or permission.*

240 VETERINARY PARASITOLOGY

2 hrs.

An introduction to the common internal and external parasites of domestic animals including scientific nomenclature, life cycle, common methods of identification, and the treatment and/or prevention of these parasites.

250 TEACHING METHODS**3 hrs.**

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 an equitation class. *Prereq: EqSc 130*

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 8 weeks. *Prereq: EqSc 250*

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*

280 FARRIER SCIENCE I**2 hrs.**

Lecture, demonstration and practicum of 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. *Prereq: L Sc 152 or 170, or permission.*

290 FARRIER SCIENCE II**2 hrs.**

Lecture, demonstration and practicum 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. *Prereq: EqSc 280 or permission.*

311 EQUINE NUTRITION**3 hrs.**

Lecture and clinic. An in-depth study of equine nutrition, including absorption, metabolism and feed sources of the following nutrient categories: water, protein, carbohydrates, fats, minerals and vitamins. Included are ration balancing, determining nutritive needs, and problems associated with feeds and feeding horses. 5 weeks. *Prereq: EqSc 220 and L Sc 151, or permission.*

312 EQUINE GENETICS**3 hrs.**

Lecture and clinic. Genetics coursework covers basic principles of genetics using the equine as a model: blood factors, color genetics, lethals, relationships, inbreeding and principles of selection. 5 weeks. *Prereq: EqSc 230 and L Sc 151, or permission. Strongly recommend Math 115 and 230 as support courses.*

**320 BUSINESS MANAGEMENT AND PROMOTION
OF AN EQUINE FACILITY****3 hrs.**

Lecture and clinic. A study of advertising and business management including law, taxes and insurance as they affect an equine facility. Computer simulation of management of an equine facility included. *Prereq: Acct 200, or permission.*

**330 EQUINE FACILITY DESIGN AND
AGRICULTURE MANAGEMENT****3 hrs.**

Lecture and clinic. A study of various practices in facility design and pasture management of equine facilities. *Prereq: Junior level standing, or permission.*

340 EQUINE MEDICAL MANAGEMENT**4 hrs.**

Lecture and clinic. Topics include disease for which horses are routinely vaccinated, parasitology, designing a preventive medicine program for the broodmare, foal, weanling, yearling, race horse, show horse and backyard horse, and maintaining health records. Included are methods of medicine administration, treatment techniques, first aid, applied pharmacology, aging the horse and dental care. *Prereq: EqSc 210, 220, and 230, or permission.*

390 SPECIAL PROBLEMS

2-5 hrs.

Students may pursue a minor research project or continue with more advanced work in equine science department offerings. *Prereq: EqSc 130, or permission.*

490 INTERNSHIP

3-15 hrs.

The student should begin discussions with the advisor concerning prerequisites and guidelines in the sophomore year. In no case should official application and contract development start later than the beginning of one term prior to registration for an internship. *Prereq: EqSc 340, or permission.*

FOREIGN LANGUAGE

Neff (chairperson), Carr, Demel, Galarce, Martin, Richardson.

A **major in French** consists of 45 quarter hours chosen from the 200-300 level including French 210/310, 220/320, 230/330, 240/340, 280/380 and 390. Additional course credits may be earned through study abroad.

A **minor in French** consists of 25 quarter hours chosen from the major courses.

A **major in Spanish** consists of 45 quarter hours chosen from the 200-300 level including Spanish 210/310, 220/320, 230/330, 240/340, 280/380 and 390. Additional course credits may be earned through study abroad.

A **minor in Spanish** consists of 25 quarter hours chosen from the major courses.

A **minor in German** may be completed by study in Germany.

Students seeking **secondary teaching certification** in foreign language must complete 67 quarter hours (beginning with course 100) with at least one course in each of the three areas of language skills, civilization and literature. An elementary concentration consists of 30 quarter hours (beginning with course 100) plus required methods courses in the Department of Education.

Note: Elementary courses in New Testament Greek are offered regularly; beginning courses in Italian, Russian, Japanese and Chinese are offered upon sufficient demand.

Students are urged to consider combining a major or minor in a foreign language with a second field such as business, political science, sociology or international studies. Education majors should consider seeking teaching certification in two languages.

Courses offered under **English as a Foreign Language** program are open only to students whose native 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 of English as a Second Language may be applied toward a degree.

Critical Language Courses

390.10 ITALIAN (elementary)

5-15 hrs.

390.20 JAPANESE (elementary)

5-15 hrs.

390.30 RUSSIAN (elementary)

5-15 hrs.

Individual study under the U.S. Critical Language Program. Use of laboratory tapes and native informant. Outside examiner. Permission of department chairperson required.

English as a Foreign Language Courses (EFL)

Courses offered under English as a Foreign Language are open only to students whose native language is not English and whose proficiency indicates the need for language instruction as part of their course of studies. In general, students whose TOEFL scores fall between 500-550 should expect to enroll in these courses. (Exemption is by test only.) All new foreign students will take the required orientation course during their first term at the college, whether or not they are exempted from EFL courses.

100 FOREIGN STUDENT ORIENTATION**1hr.**

Introduction to American culture, to the American academy in general, and to Otterbein College in particular. Two class meetings per week.

100 ENGLISH AS A FOREIGN LANGUAGE**5 hrs.**

An advanced course in English composition and reading for students who are concurrently undertaking a college curriculum in a language not their own.

190 ENGLISH AS A FOREIGN LANGUAGE - SPECIAL TOPICS**2 hrs.**

For students with special language deficiencies. Repeatable twice for credit. Three class meetings per week.

French Courses (Fren)**100-110-120 ELEMENTARY FRENCH****15 hrs.**

An audio-visual presentation of beginning French using videotapes. Laboratory tapes and a reading and writing text complement the videos to develop the skills of listening, speaking, reading, writing and cultural awareness.

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 differences.

210-310 CONVERSATION/COMPOSITION**5 hrs. each level**

Designed to develop conversational fluency as well as to provide practice in more formal oral and written composition. *Prereq: Fren 140.*

220/320 ASPECTS OF THE FRENCH LANGUAGE**3 hrs. each level (alt. yrs.)**

Review of basic grammar and introduction to finer points of syntax and style through literary readings. *Prereq: Fren 140.*

230/330 CONTEMPORARY FRANCE**Fren 230 5 hrs.****Fren 330 3 or 5 hrs. (alt. yrs.)**

A study of contemporary France and French culture, including attitudes and values, family and social structures. *Prereq: Fren 140.*

240/340 THE FRENCH HERITAGE**Fren 240 5 hrs.****Fren 340 3 or 5 hrs. (alt. yrs.)**

A study of French civilization from earliest times up to the present. Lectures, readings, reports. *Prereq: Fren 140.*

250 FRENCH LITERATURE IN TRANSLATION**2 hrs. Honors**

Works from French literature to be read in English translation. *The course is limited to Honors students; no proficiency in the French Language is required. (Does not count toward a College major or minor in French.)*

270 COMMERCIAL FRENCH**5 hrs. (alt. yrs.)**

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. *Prereq: Fren 140.*

280 INTRODUCTION TO FRENCH LITERATURE**5 hrs.**

An introduction to literary readings representative of various genres. *Prereq: Fren 140.*

380 TOPIC IN FRENCH LITERATURE**3 to 5 hrs. (alt. yrs.)**

Study of a period, movement, or genre. *Prereq: Three courses in the major.*

390 SPECIAL STUDIES**1-5 hrs.**

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson required.*

490 INTERNSHIP**1-15 hrs.*****German Courses (Germ)*****100-110-120 ELEMENTARY GERMAN****5 hrs.**

The aim of this course is to give the student training in reading and oral work, knowledge of grammatical forms, and an awareness of cultural differences. Laboratory practice.

390 SPECIAL STUDIES**1-5 hrs.**

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson required.*

490 INTERNSHIP**1-15 hrs.*****Greek Courses (Grek)*****100-110 NEW TESTAMENT GREEK FOR BEGINNERS****10 hrs.**

Fundamentals of grammar through intensive reading and writing are stressed. Offered in alternate years.

120 NEW TESTAMENT READING COURSE**5 hrs.**

Selections from 1 John, the Gospels, the Epistles of Paul and the other New Testament writings. An examination of the critical apparatus of the Greek New Testament. *Offered in alternate years.*

Prereq: Grek 110.

Spanish Courses (Span)**100-110-120 ELEMENTARY SPANISH****15 hrs.**

An audio-visual presentation of beginning Spanish using videotapes. Laboratory tapes and a reading and writing text complement the videos to develop the skills of listening, speaking, reading, writing and cultural awareness.

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 differences.

210/310 CONVERSATION/COMPOSITION**5 hrs. each level**

Designed to develop conversational fluency as well as to provide practice in more formal oral and written composition. *Prereq: Span 140.*

220/320 ASPECTS OF THE SPANISH LANGUAGE**3 hrs. each level (alt. yrs.)**

Review grammar, vocabulary building idioms and translation skills with special attention directed to individual problem and interest areas. *Prereq: Span 140.*

230/330 LATIN-AMERICAN CULTURE**Span. 230 5 hrs.****AND CIVILIZATION****Span. 330 3 or 5 hrs. (alt. yrs.)**

Emphasis on contemporary institutions and problems as determined by cultural patterns and attitudes. *Prereq: Span 140.*

240/340 THE SPANISH HERITAGE**Span. 240 5 hrs.****Span. 340 3 or 5 hrs. (alt. yrs.)**

A study of Spanish civilization, culture and political thought from the origins to the present day. Lectures, readings, reports. *Prereq: Span 140.*

270 COMMERCIAL SPANISH

5 hrs. (alt. yrs.)

A course designed to teach the essential vocabulary and style specific to Latin American business and to introduce students to the basic workings of the Latin American economy. *Prereq: Span 140.*

280 INTRODUCTION TO SPANISH LITERATURE

5 hrs.

An introduction to literary readings representative of various genres. *Prereq: Span 140.*

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.*

390 SPECIAL STUDIES

1-5 hrs.

Individual studies designed to enable individual students to pursue specific interests. *Permission of the department chairperson required.*

490 INTERNSHIP

1-15 hrs.

FRENCH

See description of French major under the Department of Foreign Languages.

HEALTH AND PHYSICAL EDUCATION

Day (chairperson), Buell, Fishbaugh, Hussey, McLaughlin, Reynolds, Tyler, VanSant, Walter, Wilson.

A **major in physical education** consists of Physical Education 120, 210, 220, 300, 310, 340, 350, 380 and 440 plus Health Education 270. Required support courses are Life Science 151, 152, 153.

A **major in health education** is interdisciplinary and consists of Health Education 220, 270, 330, 350; Life Science 151, 152, 153, 190; Sociology 250; and Psychology 220.

A **major in Sports Medicine** is interdisciplinary and consists of Physical Education 160, 260, 265, 290 or 310 or 320, 340, 380, 440; Health Education 220, 270, 460, 470; Life Science 151, 152 and 153.

A **minor in physical education** consists of Physical Education 120 or 300, 290 or 310, 320, 340, and Health Education 350.

A **minor in coaching** consists of Physical Education 120 or 300, 160, 290 or 310, 320, 340 and Health Education 280.

A **minor in health education** consists of Health Education 220, 270, 310, 320, and 350.

Students seeking **teacher certification** in either health or physical education should consult the current Otterbein *Teacher Education Programs* booklet for the required courses for certification.

Individualized programs are also possible in sports merchandising and corporate fitness in addition to those developed on an individual basis.

Physical Education Courses (PhEd)

100 PHYSICAL EDUCATION

1 hr. (3 qtr. hrs. req. for graduation)

Designed to meet the College requirement in health and physical education. Two hours per week are spent in individual, team or rhythmic activities which are selected during the freshman or sophomore year. Activities include: aerobics, archery, badminton, ballet, basketball, billiards, bowling, camping, canoeing, cycling, fencing, fitness for life, folk dancing, golf, gymnastics, handball, jogging, life guard training, lifesaving, modern dance, modern jazz, racquetball, racket sports, riding, scuba, self-defense for women, sexual maturity, softball, square dance, swimming, tap dance, team handball, tennis, track and field, volleyball, water safety instructor, and weight training.

- 120 INTRODUCTION TO PHYSICAL EDUCATION** 4 hrs.
History, facts and principles serving as the basis for the philosophy of physical education. Relates physical education to the field of education.
- 160 BASIC ATHLETIC TRAINING** 3 hrs.
Prevention and treatment of injuries limited to initial recognition and evaluation of acute injury as sustained in athletics. Current trends in nutrition and conditioning of athletes will be included.
- 210 THE ELEMENTARY SCHOOL PHYSICAL EDUCATION PROGRAM** 3 hrs.
A study of the elementary school child with emphasis on creative expression of individual, group and rhythmic activities in relation to the development of children. *Prereq: InSt 130 and Educ 160.*
- 220 ELEMENTARY PHYSICAL EDUCATION FIELD EXPERIENCE** 2 hrs.
Laboratory experience in elementary physical education for physical education majors and elementary education majors with a physical education concentration. *Take concurrently with PhEd 210.*
- 260 ADVANCED ATHLETIC TRAINING I** 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: PhEd 160.*
- 265 ADVANCED ATHLETIC TRAINING II** 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: PhEd 260.*
- 290 TECHNIQUES AND STRATEGIES OF COACHING** 2-8 hrs.
A study of the philosophies, ethics, methods, strategies and mechanics of coaching. *Physical education majors (men) are encouraged to complete three of the six sports:*
- 290.10 BASEBALL** 2 hrs.
 - 290.20 BASKETBALL** 2 hrs.
 - 290.30 FOOTBALL** 2 hrs.
 - 290.40 POWER VOLLEYBALL** 2 hrs.
 - 290.50 SOCCER** 2 hrs.
 - 290.60 TRACK AND FIELD** 2 hrs.
- 300 PRINCIPLES OF PHYSICAL EDUCATION** 4 hrs. (alt. yrs. 94-95)
A study of the origin and nature of physical education as a developmental experience within the concept of education. *Open to juniors and seniors.*
- 310 TECHNIQUES OF TEAM SPORTS** 5 hrs. (alt. yrs. 94-95)
A study of the principles and techniques of team sports for women including organization for teaching. *Open to sophomores and juniors.*
- 320 TECHNIQUES OF INDIVIDUAL AND DUAL SPORTS** 5 hrs.
A study of the principles and techniques of individual and dual sports including organization for teaching. *Open to sophomores and juniors.*
- 340 KINESIOLOGY** 5 hrs.
A study of the science of human motion including anatomical fundamentals, mechanics and applied principles of basic motor skills. *Prereq: L Sc 151, 152, 153 or permission of instructor.*
- 350 THEORY AND PRACTICE OF RHYTHMIC ACTIVITY** 5 hrs. (alt. yrs. 94-95)
An advanced study of basic rhythmic activities including creative dance and other dance forms. *Prereq: Modern dance as offered in PhEd 100. Open to juniors and seniors.*

360 ADAPTED PHYSICAL EDUCATION**3 hrs.**

A study of the physical education program as adapted and organized for the atypical child, including therapeutics, mainstreaming and recreation for the disabled and handicapped. *Open to juniors and seniors.*

370 ADAPTED PHYSICAL EDUCATION FIELD EXPERIENCE**2 hrs.**

Laboratory experience in adapted physical education for health, physical education and elementary education majors with a physical education concentration. *Take concurrently with PhEd 360.*

380 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION**5 hrs.**

The nature of organization and administration of the physical education program, intramural and interscholastics, curriculum design, class policies, procedures and measurement and evaluation.

390 INDEPENDENT STUDY IN PHYSICAL EDUCATION**2-5 hrs.**

Research project in physical education for qualified students. *Junior standing and permission of the instructor. May be repeated for credit.*

400 SEMINAR IN PHYSICAL EDUCATION**2 hrs.**

A study of issues in physical education. *Prereq: permission of the instructor. Open to seniors.*

410 RESEARCH AND MEASUREMENT IN PHYSICAL EDUCATION**4 hrs.**

A course designed to acquaint students with current trends in physical education research, statistics and testing. Students are encouraged to research an area of interest. *Open to seniors.*

430 MOTOR LEARNING**3 hrs.**

Study of the principles of motor learning, the factors which affect skill acquisition and the teaching-learning process.

440 EXERCISE PHYSIOLOGY**4 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 151, 152, 153, or permission of instructor.*

450 PHYSICAL EDUCATION CLINICAL**2-5 hrs.**

Guided intern work in athletic training, administration of intramurals, interscholastic athletics and recreation. *Open only to qualified junior and senior majors. Permission of the instructor required. May be repeated once.*

490 INTERNSHIP**1-15 hrs.**

Qualified students may elect 1-15 hours of Physical Education 490 upon submission of written proposal. Work may be contained within a single term or spread out over three consecutive terms. Internships are available in recreation, sports merchandising, corporate fitness, camp management and must be supervised by a department faculty member. Evidence of work done 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 Education Courses (H Ed)**220 NUTRITION AND FITNESS****5 hrs.**

Nutrition needs of individuals in various stages of the life cycle with emphasis on related chemical and biological processes.

250 THE ELEMENTARY SCHOOL HEALTH PROGRAM**3 hrs.**

A study of the elementary school child with implications for the school health program. Health problems, curriculum, teaching methods and materials are included. *Prereq: InSt 130 and Educ 160.*

270 FOUNDATIONS OF HEALTH**5 hrs.**

A study of the various diseases, conditions and factors, as related to the individual and the community which affect health.

280 FIRST AID**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. Students may obtain American Red Cross Certification. *Required for state certification for physical education majors.*

310 ALCOHOL, TOBACCO AND DRUGS**3 hrs.**

The sociological, psychological and physiological aspects of drugs, alcohol and tobacco with emphasis on teaching approaches to sensitive issues.

320 HUMAN SEXUALITY W/S**3 hrs.**

A study of human sexuality as an aspect of human personality and its relationship to social, emotional, and physical development with emphasis on teaching approaches to sensitive issues.

**330 THE ORGANIZATION AND ADMINISTRATION OF
THE SCHOOL HEALTH PROGRAM****5 hrs. (alt. yrs.)**

A study of the total school health program with emphasis on school health services, healthful school living, and school-community relationships. *Prereq: H Ed 270. Open to juniors and seniors.*

350 SCHOOL HEALTH EDUCATION**5 hrs. (alt. yrs.)**

A study health education programs, including organization, methods of teaching, and evaluation. *Open to juniors and seniors.*

390 INDEPENDENT STUDY IN HEALTH EDUCATION W/S**2-5 hrs.**

Research project in health education for qualified students. *Junior standing and permission of the instructor. May be repeated for credit.*

400 SEMINAR IN HEALTH EDUCATION**2 hrs.**

A study of issues in health education. *Prereq: permission of the instructor. Open to seniors.*

460 CLINICAL MODALITIES**3 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. *Prereq: L Sc 151, 152, 153, PE 340, or permission of the instructor.*

470 PRINCIPLES OF REHABILITATION**5 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: L Sc 151, 152, 153, PE 340, or permission of the instructor.*

490 INTERNSHIP**1-15 hrs.**

Qualified students may elect 1-15 hours of Health Education 490 upon submission of written proposal. Work may be contained within a single term or spread out over three consecutive terms 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.*

HISTORY AND POLITICAL SCIENCE

MacLean (chairperson), Beck, Rose, Ross, Yntema.

HISTORY

A **major in history** consists of 45 quarter hours in history, including History 110, 120, 200, 210, 220, 280, and 320 or 331. Majors must choose at least one of their two electives in history from courses on the 300 level. Majors also are required to take ten 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, and psychology. Students should work closely with their major adviser in choosing courses that will complement the particular area of history in which they are most interested.

A **minor in history** consists of 25 hours from the offerings in history.

Students interested in teaching history or social studies should consult the **Teacher Education Programs** booklet for course requirements.

History Courses (Hist)

110 AMERICAN HISTORY SURVEY: COLONIAL ERA TO THE CIVIL WAR 5 hrs.

120 AMERICAN HISTORY SURVEY: RECONSTRUCTION TO THE PRESENT 5 hrs.

History 110 and 120 constitute a two-term survey of American political, social, economic, and cultural history and foreign policy from the colonial era to the present.

200 EUROPEAN HISTORY: 1500-1815 5 hrs.

210 EUROPEAN HISTORY: 1815-1919 5 hrs.

220 EUROPEAN HISTORY: 1919-present 5 hrs.
History 200, 210, and 220 constitute a three-term sequence covering European political, social, economic, cultural, and international history from 1500 to the present.

250 ECONOMIC HISTORY 5 hrs.
This course traces the development of the modern industrial system and examines the related social and political changes in Westernized and developing countries.

270 OHIO HISTORY 5 hrs.
A survey of the economic, cultural, political and social history of Ohio.

280 HISTORY SEMINAR 5 hrs. (alt. yrs.)
A seminar required for majors in history, designed to acquaint students with basic procedures, materials and research tools used by historians.

290 AMERICAN WOMEN: A HISTORY W/S 5 hrs.
A study of the history of women in America from the colonial period to the present, with attention to social, cultural, political, and economic history.

300 BRITISH HISTORY 5 hrs.
A survey of British history to the present day. The course is especially recommended to pre-law students and to majors in English.

310 MEDIEVAL AND RENAISSANCE HISTORY 5 hrs.
A study of early European history from 500 to 1500 with special emphasis on the contribution of this period to later developments.

320 MODERN AMERICAN HISTORY: 1900-present**5 hrs. (alt. yrs.)**

A study of the domestic and diplomatic developments in America from the turn of the century to World War II. Readings include original sources and interpretive studies. *Prereq: Hist 120 or permission of instructor.*

331 MODERN AMERICAN HISTORY: 1945-PRESENT**5 hrs.**

A study of the domestic and diplomatic developments in America from the end of World War II to the present day. Readings include original sources and interpretive studies. *Prereq: Hist 120 or permission of instructor.*

340 HISTORY OF SOVIET-AMERICAN RELATIONS**5 hrs.**

With a brief introduction to prerevolutionary Russia, this course covers the evolution of Soviet-American relations from 1917 to the present. Emphasis is given in particular to the Cold War Era.

390 SPECIAL PROBLEMS W/S**3 or 5 hrs.**

Independent study. *Permission of the department chairperson is required.*

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

A **major in political science** consists of 45 quarter hours in political science including Political Science 100, 110, and 230. Majors are required to take at least one upper-division course (300-349) in American politics and at least one upper-division course (350 or above) in international relations or comparative politics. Economics 220 and Math 230 also are required. For students who wish to focus primarily on American politics and government, the department strongly recommends History 110 and 120 and additional electives in political science and American history.

A **minor in political science** consists of 30 quarter hours in political science including Political Science 100 and 110. The remaining 20 hours of coursework must be taken in political science and must include at least one upper-division course (300-349) in American politics and at least one upper-division course (350 or above) in international relations or comparative politics.

Students interested in teaching political science should consult the **Teacher Education Programs** booklet for course requirements.

Political Science Courses (P Sc)**100 INTRODUCTION TO AMERICAN POLITICS****5 hrs.**

The constitutional development of our federal form of government with special emphasis on the structure and operation of the national government in an intergovernmental system. Discussion of unique elements of American government forms and processes.

110 INTRODUCTION TO PUBLIC POLICY ANALYSIS**5 hrs.**

Introduction to the study and analysis of public policy. Examination of the policy process and the substance of major policy issues of nation-states with an emphasis on US public policy. *Prereq: P Sc 100 or permission of instructor.*

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.

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. Includes independent study for majors in Political Science. *Prereq: P Sc 100 or permission of instructor.*

315 AMERICAN LEGISLATIVE PROCESSES**5 hrs. (alt. yrs.)**

A study of representation systems in the world today with special emphasis on legislative processes and structures in the United States. *Prereq: P Sc 100, 110, or permission of instructor.*

320 THE SUPREME COURT AND CONSTITUTIONAL LAW**5 hrs. (alt. yrs.)**

An examination of the political, social, and legal role of the U.S. Supreme Court with special emphasis on Constitutional Law. A casebook method will be used for part of this course. *Prereq: P Sc 100, 110, or permission of instructor.*

325 THE AMERICAN PUBLIC EXECUTIVE ADMINISTRATION**5 hrs. (alt. yrs.)**

A study of public executive structures, functions, and operations in the United States today with special emphasis on public administration and complex public organizations. *Prereq: P Sc 100, 110, or permission of instructor.*

335 POLITICAL LINKAGE INSTITUTIONS**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. Includes independent study for majors in Political Science. *Prereq: P Sc 100, 110, or permission of instructor.*

340 AMERICAN POLITICAL THEORY**5 hrs. (alt. yrs.)**

A chronological study of the mainstream and radical currents of American political thought from colonial times to the present. Includes independent study for majors in Political Science. *Prereq: P Sc 100, 110, or permission of instructor.*

350 SELECTED TOPICS IN POLITICAL SCIENCE**3-5 hrs.**

An in-depth examination of a timely or specialized subject in American politics, international relations, or comparative government. *Prereq: permission of instructor.*

355 AMERICAN FOREIGN POLICY**5 hrs. (alt. yrs.)**

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 100, 110, or permission of instructor.*

365 INTERNATIONAL POLITICS**5 hrs.**

World political systems and theories of interaction in the global community; international issues and problems. *Prereq: permission of instructor.*

380 COMPARATIVE GOVERNMENT**5 hrs. (alt. yrs.)**

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: permission of instructor.*

385 EAST ASIAN RELATIONS**5 hrs. (alt. yrs.)**

A specialized historical and political examination of the military, political, social, and economic relations between nation-states of East Asia. Includes independent study for majors in political science. *Prereq: P Sc 380 or permission of instructor.*

390 SPECIAL PROBLEMS IN POLITICAL SCIENCE**3 or 5 hrs.**

Independent study. *Open only to majors in political science. Prereq: P Sc 100, 110, or permission of instructor.*

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. 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. *Prereq: P Sc 100, 110 or permission of instructor.*

INTERNATIONAL STUDIES

A **major in International Studies** is interdisciplinary and consists of 70 quarter hours of specific courses in foreign language, European history, history, international politics, political science, economics, international business, sociology, and the arts.

Students should check with the department chairperson relative to additional electives or substitutes within and outside the department. INST 160 and INST 180 are also highly recommended. Specific requirements include:

Credits	Course Selections
15 from	Foreign Language Lang 140 Intermediate Language (<i>Prereq: Lang 120</i>) Lang 210 Conversation/Composition Lang 220 or higher (One five-hour course 200 or above)
5 from	European History HIST 200 European History 1500-1815 HIST 210 European History 1815-1919 HIST 220 European History 1919-present
10 from	History HIST 250 Economic History HIST 300 British History HIST 340 History of Soviet-American Relations
5 from	International Politics P Sc 365 International Politics
10 from	Political Science P Sc 355 American Foreign Policy P Sc 380 Comparative Government P Sc 385 East Asian Relations
10 from	Economics ECON 210 Micro Economics ECON 220 Macro Economics
5 from	International Business BADM 370 International Business and Economics ECON 350 Comparative Economic Systems
5 from	Sociology SOCL 250 Social Problems SOCL 300 Racial and Cultural Relations (<i>Prereq: SOCL 120 and junior standing or permission of instructor</i>) SOCL 340 Inequality and Poverty (<i>Prereq: Junior standing or permission of instructor</i>)
5 from	The Arts MUSC 330 Music in World Cultures ART 250 Survey of Non-Western Art

INTERNATIONAL STUDIES

See description of International Studies major under Department of History and Political Science.

JOURNALISM

See description of Journalism major under Department of English.

LEARNING ASSISTANCE

100 DEVELOPMENTAL READING AND STUDY SKILLS

5hrs.

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*

LIFE AND EARTH SCIENCES

Life Science: Herschler (chairperson), Hoggarth, Lawrance, Tegenkamp.

The Department of Life and Earth Sciences offers the choice of four programs of study (concentrations). In addition, an individualized concentration may be approved by consent of the department. The four concentrations are: **molecular biology/biotechnology, natural resources and environmental sciences, pre-professional health sciences, and secondary teaching certification**. All students are encouraged to participate in "Life and Earth Sciences Colloquium" in which invited speakers, faculty, and students in the sciences discuss timely research and related topics in the life and earth sciences.

The **Molecular Biology/Biotechnology** concentration prepares students in molecular biology and cellular biology including preparation in recombinant DNA technologies for graduate programs and research positions in public or commercial laboratories. Areas of study include 1) the molecular structure of DNA, and genomes including the human genome, 2) the molecular basis of the cellular organization of life including cell specialization and cancer, 3) the manipulation of life via genetic engineering or biotechnology, and applications in biomedicine, agriculture, industry, and the environment. The program emphasizes laboratory experiences and requires a culminating research project at Otterbein or an internship in an appropriate laboratory (e.g. Battelle, Ross Laboratories).

Specific courses required in Life Science: 120, 130, 210, 220, 290, 320, 330, 370, 390 or 490.
Suggested Life Science electives: 230 and 255

Required supporting courses: Chemistry: 140, 141, 150, 151, 160, 161, 240, 241, 250, 251, 260, 261, 450, 460 Math: 115 and 116 (120), 170, 180, 230, 231 Computer Science: 100 Physics 140, 150, 160

The **Natural Resources and Environmental Sciences concentration** emphasizes development of the ability to recognize, understand and solve environmental problems. Areas of study include: biological diversity, management of natural areas, preservation of air, water and land quality, identification and inventory of endangered species and habitats and preservation of wetlands and other natural areas. The program prepares students for graduate research in ecology and positions with government agencies or private firms.

The program emphasizes laboratory and field studies and 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.

Specific courses required in Life Science: 120, 130, 140, 160, 253, 256, 290, 310, 360, 410, 490.

Suggested Life Science electives: 161, 162, 255, 257 and INST 350.

Required in Earth Science: 260, 280. Suggested: 100, 270, and INST 400.

Required supporting courses: Math 115 and 117 (120); Chemistry 110, 220 or equivalent

Suggested supporting courses: Math 170, 180, 230; Computer Science 100; Chemistry 140, 141, 150, 151, 160, 161, 240, 241, 250, 251, 260, 261, 450, 460; Physics 140, 150, 160

The **Pre-professional health sciences** concentration prepares students for programs in medicine, dentistry, veterinary medicine, optometry, physical therapy, podiatry, medical technology, physicians' assistants and other health fields or graduate programs in the health sciences. Laboratory experiences are emphasized. In addition, a culminating research project or internship with the appropriate professionals may be elected. A broad background in Chemistry, Mathematics and Physics is required by the professional programs to which this concentration leads.

Specific courses required in Life Sciences: 120, 130, 140, 210, 220, 270, 290, 320, and 340

Suggested Life Science electives: 230, 252, 254, 255, 330, 370, 390, 490

Suggested supporting courses - Check with specific professional school for its requirements for admission: Chemistry 140, 141, 150, 151, 160, 161, 240, 241, 250, 251, 260, 261, 450, 460 Math 115 and 116 (120), 170, 180, 230 Computer Science 100 Physics 140, 150, 160.

Secondary education certification may be obtained by completing a life science major and education requirements as specified by the booklet Teacher Education Programs Offered by Otterbein College.

A minor in health sciences requires Life Science 120 or 151, and 290 and 15 hours from Life Science 152, 153, (170, 180) 210, 220, 230, 252, 254, 258, 270, 320, 330, 340, 370 for a total of 25 hours.

A minor in environmental science requires 25 hours consisting of 120, 130, 140 and 10 hours from Life Science 160, 161, 162, 253, 256, 290, 310, 360, 410

Students desiring to combine life sciences with preparation in the business world are encouraged to elect as part of the major, Life Science 310 and Life Science 490. A business major is also recommended.

All students planning to enroll in Life Science 251, 390 or 490 must contact the department to obtain permission at least one term prior to enrollment.

Life Science Courses (L Sc)

120 BIOSPHERE I

5 hrs.

The first in a two-term sequence designed to give students an understanding of the basic principles and characteristics of the diversity of animal life. Laboratory exercises are utilized to teach students basic techniques and use of equipment normally used in life sciences.

130 BIOSPHERE II

5 hrs.

The second course in the sequence incorporating a study of genetics, the microbial world and the anatomy and physiology of vascular plants. Laboratory exercises will include work with computers in genetics, bacteriological and physiological techniques along with microscopic and anatomical examination of specimens.

140 DYNAMICS OF THE ECOSYSTEM

5 hrs.

A study of the interrelationships between the organism and the physical environment. Field techniques and instrumentation are stressed. *Prereq: L Sc 130 or permission.*

151 INTRACELLULAR BIOLOGY

5 hrs.

Lecture and Laboratory

The first in a three-course sequence (Life Science 151, 152 and 153) required of physical education and equine science majors. Designed to give students a basic understanding of life at the cellular and subcellular level.

152 ANATOMY AND PHYSIOLOGY**5 hrs.**

An introductory lecture and laboratory course in human anatomy and physiology. Microscopic and gross anatomy, plus the functioning and development of the skeletal, muscular, respiratory and cardiovascular systems are covered. Required of health and physical education majors, equine science majors and others. *Prereq: L Sc 151 or permission.*

153 ANATOMY AND PHYSIOLOGY**5 hrs.**

Lecture and Laboratory

A continuation of Life Science 152 with emphasis on the major coordinating and integrating system. Topics include: digestive system, urogenital system and acid base balance, nervous system and endocrine system. Required of health and physical education majors and equine science majors and others. *Prereq: L Sc 152 or permission.*

160 ORNITHOLOGY**2 hrs.**

The study and identification of common bird species of the area. Lectures, laboratories and weekend field trips are required. Taught by department staff and personnel of the Metropolitan Park District.

161 WILDFLOWERS OF OHIO**2 hrs.**

This course focuses on the identification of Ohio's Wildflowers. It also covers botanical terminology, wildflower ecology and economic utility, and places and habitats in which to find these plants. The course stresses a relationship approach.

162 DENDROLOGY**2 hrs.**

A study of Ohio's trees, native and alien. The course covers identification, botanical processes, ecology, morphology, taxonomy, species location and economic utility. An ecological approach is utilized.

170 ANATOMY AND PHYSIOLOGY**5 hrs.**

An introductory lecture and laboratory course in human anatomy and physiology. Includes an introduction to life at the cellular level. Microscopic and gross anatomy and the functioning and development of the skeletal, muscular, respiratory and cardiovascular systems are covered. *Prereq: Chem 110 or permission.*

180 ANATOMY AND PHYSIOLOGY II**5 hrs.**

Lecture and Laboratory

A continuation of Life Science 170 with emphasis placed on major coordinating and integrating systems. Topics include: digestive system and intermediary metabolism, urogenital system and acid base balance, nervous system, endocrine system, embryonic development and genetics. *Prereq: L Sc 170.*

200 HUMAN MICROBIOLOGY IN HEALTH AND DISEASE**5 hrs.**

Lecture and Laboratory

Study of the infectious diseases and immunology of man. Includes study of asepsis and related techniques. Identification of two unknowns in mixed culture required. *Prereq: Chem 110 and/or L Sc 151.*

210 TRANSMISSION AND PHYSIOLOGICAL GENETICS**5 hrs.**

Intensive investigation of principles of transmission and physiological genetics, including statistical evaluation of data. Three hours/week of assigned laboratory time in addition to lecture. *Prereq: L Sc 120, 130, and 140 or 151, or permission.*

220 MOLECULAR CELL BIOLOGY**5 hrs.**

Lecture and Laboratory

A study of the cell, its membrane and organelles and the universality of the chemical processes that bring about their structure and function. Laboratory includes use of various separation devices such as centrifuges and electrophoresis equipment and measurement devices including, spectrophotometers, densitometers, Ph meters and respirometers. Statistical analysis of quan-

titative results to determine probability of chance differences between treated and controls is emphasized. *Prereq: L Sc 120, 130, and 290, or permission.*

230 CYTOGENETICS

3 hrs. (alt. yrs.)

A study of cytological aspects of both plant and animal cells. Special emphasis placed on nuclear studies, related to genetic phenomena. *Prereq: L Sc 120, 130, 140, and 210, or permission.*

251 MICROTECHNIQUE

2 hrs.

An independent study course designed to give students practical experience in the preparation of material for microscopic investigation. *Prereq: L Sc 120 and 130 or permission.*

252 HISTOLOGY

3 hrs.

A course designed to give students a conceptual understanding of tissues, using light microscope level. *Prereq: L SC 120 and 130 or permission.*

253 INVERTEBRATE ZOOLOGY

2 hrs.

A course designed to give students a survey of representative specimens of major invertebrate phyla. *Prereq: L Sc 120 and 130 or permission.*

254 EMBRYOLOGY

3 hrs.

A course designed to give students knowledge of the anatomy of the development process of vertebrate embryos. Recommended for preprofessional medical and paramedical students. *Prereq: L Sc 120 and 130 or permission.*

255 SCIENTIFIC TERMINOLOGY

2 hrs.

A course designed to introduce students to the components of scientific terms, e.g. combining forms, prefixes, suffixes, and their meanings.

256 BASIC ENTOMOLOGY

3 hrs.

A course in basic entomology designed to enable students to explore more deeply this large, interesting and economically important group of animals. Emphasis is placed on identification and economic importance of insects, but life history, development, anatomy, physiology, vectors, and disease, and geographic distributions are also covered. Laboratory experiences in collecting, cataloguing and mounting specimens is provided and required.

257 BASIC NATURE PHOTOGRAPHY

2 hrs.

A course in photography designed primarily for the life science students utilizing the 35 mm format. Includes processing, enlarging and specialized equipment used by nature photographers. Includes lectures and laboratory meetings. Initial objective is to teach procedures and dark room techniques used in black and white photography.

258 MAMMALIAN ANATOMY

3 hrs.

A laboratory course designed to give students knowledge of the anatomy of the mammal utilizing cat dissection and human models.

270 PHYSIOLOGY OF INTEGRATIVE SYSTEMS

5 hrs.

Lecture and Laboratory

An intensive study of physiological systems of more complex organisms, with emphasis on the physical principles governing activities of these systems. *Prereq: L Sc 220 or permission.*

290 INTRODUCTORY MICROBIOLOGY

5 hrs.

Stresses microbial growth and metabolism, immunology and infectious diseases of man. Laboratory stresses techniques and methodology of identification, culturing, inhibition and destruction. Identification of four unknowns in mixed culture required.

Prereq: L Sc 151, or 120 and 130. For majors or permission.

300 BASIC PATHOPHYSIOLOGY

5 hrs.

A review of the major physiological systems including the governing physical and chemical

principles, leading to the identification and understanding of abnormal conditions and the factors that cause these conditions. *Prereq: L SC 170, 180, 190 and Chem 300, or permission.*

310 ECONOMIC BIOLOGY

5 hrs. (alt. yrs.)

A study of the economically important facets of plants useful in the food, drug, construction and horticulture areas. Lecture, laboratory, field and independent study. *Prereq: College Botany or Biology*

320 MOLECULAR DEVELOPMENTAL BIOLOGY

5 hrs.

Lecture and Laboratory

An integrated approach to the aspects of development encompassing a related survey and applications of such morphogenetic phenomena as growth, differentiation, regeneration, metamorphosis, and aging in living organisms. Major factors operative in the control of development will be treated quantitatively as well as qualitatively via mathematic, genetic, and physiological analysis. *Prereq: L Sc 120, 130, 140, 220 and 290. For majors or permission.*

330 MOLECULAR GENETICS

5 hrs.

Lecture and Laboratory

A study of the results of merging classical genetics with biochemistry. Topics include concepts of molecular structure of the gene and the genome, RNA synthesis and gene control in prokaryotes and eukaryotes, DNA repair and recombination and the manipulation of the genome in genetic engineering for medicine, agriculture and other commercial endeavors. *Prereq: L Sc 210, 220, 290 or permission.*

340 COMPARATIVE ANATOMY

5 hrs.

Lecture and Laboratory

A phylogenetic study of the vertebrates based on individual observations and dissections correlated with integrating lectures. *Prereq: L Sc 120 and 130 or permission.*

360 FIELD ZOOLOGY

5 hrs. (alt. yrs.)

Lecture and Laboratory

A study of the morphology and life histories of animals utilizing examples from local indigenous fauna; lecture, laboratory, field and independent study. *Prereq: College Zoology or Biology.*

370 IMMUNOLOGY

5 hrs.

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). A research project analyzing the immune response also is required. *Prereq: L Sc 220 and 330 or permission.*

390 SPECIAL PROBLEMS

2-5 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: L Sc 120, 130 and permission.*

410 LOCAL FLORA

5 hrs. (alt. yrs.)

Identification of native, Ohio plants; emphasis on taxonomic principles, use of keys and manuals, field recognition and families of plants. Lecture, laboratory, field and independent study. *Prereq: College Botany or Biology.*

490 INTERNSHIP

2-7 hrs.

Cooperative internships in health and environmental science. The student is advised to apply to the Life Science Department 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.

MATHEMATICS AND COMPUTER SCIENCE

Willke (chairperson), Buck, Deever (Patton Professor of Computer Science), Enyart, Hinton, Huang, James, Tong, Tremaine, Trout, Wiley, Yantis.

A **major in mathematics** consists of Mathematics 170, 180, 190, 200, 220, 330, 380, and any two courses from Mathematics 231, 240, 310, 350, 360, 420 or Computer Science 330.

A **minor in mathematics** consists of 25 quarter hours, including Mathematics 170, 180, 190, and 200, and any one course from Mathematics 220, 231, 240, 310, 330, 350, 360, 380, 410, or Computer Science 330.

A **major in Computer Science with business applications** consists of Computer Science 180, 190, 200, 250, 260, 350, 360, and 10 further hours from Computer Science courses numbered 300 or above; Mathematics 170, 180, 230; English 335, Business Administration 200, 210, and Economics 210.

A **major in Computer Science with scientific applications** consists of Computer Science 180, 190, 200, 250, 260, 320, 330 and 10 further hours from Computer Science courses numbered 300 or above; Mathematics 170, 180, 190, 200, 220; English 335. Two courses are also required from the following: Chemistry 130, 140; Physics 140, 150; Life Science 120, 130; Mathematics 310, 350, 380.

A **minor in Computer Science** consists of Computer Science 180, 190, 200, and 10 further hours from Computer Science courses numbered above 200.

Internship opportunities exist in computer science and in mathematics.

Students seeking **secondary teaching certification** in mathematics must complete Mathematics 150, 230, 240 and Computer Science 100, 101, and 180 as part of the program.

Note: A graphing calculator is required for many Mathematics courses. Check with the department for a recommendation if you are planning to purchase one.

Mathematic Courses (Math)

090 INTERMEDIATE ALGEBRA

5 hrs.

A review of basic algebraic techniques. To be taken by those needing extra practice in this area. Admission is by placement examination only. *Credit does not apply towards graduation in any degree program.*

115 COLLEGE ALGEBRA

5 hrs.

Polynomial and rational functions and graphs, systems of equations and inequalities. *Prereq: A "C" or better in Math 090 if that course is required by the placement exam.*

116 TRIGONOMETRY AND COLLEGE ALGEBRA II

5 hrs.

Continuation of College Algebra. Exponential, logarithmic, and trigonometric functions, identities, graphs, and applications. *Prereq: A "C" or better in Math 115 if that course is required by the placement exam.*

120 ELEMENTARY FUNCTIONS

5 hrs.

Prepares students for calculus (mathematics 170). Topics covered include properties of functions: exponential, logarithmic, trigonometric and polynomial functions. *Prereq: A "B" or better in Math 090 if that course is required by placement exam.*

150 TOPICS IN CONTEMPORARY MATHEMATICS

5 hrs.

A survey of mathematical topics. The course will include topics selected from computer science, statistics, business math, number systems, algebra, logic, geometry and other topics. *Prereq: A "C" or better in Math 090 if that course is required by placement exam.*

160 MATHEMATICS OF DECISION MAKING

5 hrs.

A study of mathematical tools for decision making, especially as applied to business management. Includes basic algebra, linear algebra, basic statistics, linear programming, probability, modeling. *Prereq: A "C" or better in Math 090 if that course is required by placement exam*

170 CALCULUS I 5 hrs.
Limits, the derivative, differentiation of algebraic and trigonometric functions, application of the derivative, introduction of the definite integral. *Prereq:* A "C" or better in Math 115 and 116 or J20 or placement recommendation.

180 CALCULUS II 5 hrs.
A continuation of Calculus I. The definite integral and its application, calculus of the exponential/logarithmic functions, integration of the trigonometric functions, techniques of integration, improper integrals. *Prereq:* A "C" or better in Math 170.

190 CALCULUS III
A continuation of Calculus II. Conic sections, hyperbolic functions, polar coordinates, sequences and series, introduction to partial differentiation. *Prereq:* A "C" or better in Math 180.

200 CALCULUS IV 5 hrs.
A continuation of Calculus III. Vectors and solid analytic geometry, the calculus of vector-valued functions, partial differentiation and multiple integration. *Prereq:* A "C" or better in Math 190.

220 LINEAR ALGEBRA 5 hrs.
Three dimensional vectors, vector spaces, linear transformations, matrices and determinants with applications. *Prereq:* A "C" or better in Math 180.

230 ELEMENTARY STATISTICS I 5 hrs.
A study of the principles of probability, descriptive statistics, statistical inference and tests. *Prereq:* Math 115 or 120.

231 STATISTICS II 5 hrs.
A continuation of Elementary Statistics. Emphasis on data analysis in the context of simple and multiple linear regression and correlation models. Statistical computer packages are used for both exploratory and formal analysis. *Prereq:* A "C" or better in Math 230.

240 ADVANCED GEOMETRY 5 hrs. (alt. yrs. 90-91)
A general study of the structure of Euclidean, and non-Euclidean geometries and their relationship to each other. *Prereq:* Math 200 and 220.

260 DECISION MAKING FOR BUSINESS 5 hrs.
Use of operations research techniques for use in decision making. Includes linear programming and various applications, network analysis, time series. *Prereq:* Math 230.

270 MATHEMATICS FOR ELEMENTARY EDUCATION 5 hrs.
Selected topics from arithmetic, algebra and geometry for the needs of the teachers of elementary mathematics. For elementary education majors only. *Prereq:* Math 150.

310 MATHEMATICAL STATISTICS
Combinatorics, probability, discrete and continuous distributions, multivariate distributions, sampling distributions, the central limit theorem. *Prereq:* Math 200 and 230.

330 COMPLEX VARIABLES
Complex numbers, analytic functions, integrals, residues and conformal mapping. *Prereq:* Math 200 and 220.

350 APPLIED MATHEMATICS 5 hrs. (alt. yrs. 91-92)
Topics selected from series, applications of linear algebra, vector analysis and ordinary differential equations. *Prereq:* Math 200 and 220.

360 ANALYSIS AND TOPOLOGY**5 hrs. (alt. yrs. 92-93)**

Sets, functions, sequences, metric spaces, limits, continuity, and Riemann integral, differentials. *Prereq: Math 200 and 220.*

380 ABSTRACT ALGEBRA**5 hrs. (alt. yrs. 91-92)**

Groups, rings, integral domains and fields. *Prereq: Math 220.*

420 ADVANCED STUDIES**1-5 hrs.**

Topics not covered in the regular departmental offerings. Taken by permission of the instructor.

Computer Science Courses (C Sc)**100 APPLICATIONS SOFTWARE****3 hrs.**

An introduction to microcomputers and computer software. Hands-on, in-depth experience in applications packages, including spreadsheets, word processing, and data managers. Includes introduction to algorithm development and programming. *Prereq: A "C" or better in Math 090 if that course is required by the placement exam.*

101 INTRODUCTION TO COMPUTERS**2 hrs.**

A comprehensive introduction to computers, covering hardware, software, computer systems, and communications. Expanded coverage of algorithm design. This course is intended for students planning to take further coursework in computer science and is usually taken concurrently with Computer Science 100. *Prereq: A "C" or better in Math 090 if that course is required by the placement exam.*

180 PROGRAMMING CONCEPTS**5 hrs.**

An introduction to program design, coding, testing and documentation. Includes an introduction to command language, editing, program structures, data structures and algorithms. *Prereq: C Sc 100 and 101 or placement, A "C" or better in Math 120 or placement.*

190 ALGORITHMS AND DATA STRUCTURES**5 hrs.**

Advanced topics in language, algorithms and data structures. *Prereq: A "C" or better in C Sc 190, Math 170 or placement.*

200 FILE PROCESSING**5 hrs.**

Programming concepts for auxiliary storage devices. Includes sequential files and direct access files. *Prereq: A "C" or better in C Sc 190.*

250 PROGRAMMING LANGUAGES**5 hrs.**

A study of computer languages, concepts with examples from BASIC, FORTRAN, Pascal, COBOL, Ada, and others. Emphasis will be on major languages not used in previous computer science courses. *Prereq: A "C" or better in C Sc 190.*

260 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE**5 hrs.**

Introduction to computer hardware organization, low level (Assembly) and middle level (C) programming. *Prereq: A "C" or better in C Sc 190.*

310 SOFTWARE SYSTEMS**5 hrs. (alt. yrs. 91-92)**

A study of computer software, such as input/output, assemblers, compilers, interpreters and operating systems. *Prereq: C Sc 200 and 260.*

320 SCIENTIFIC COMPUTING I**5 hrs. (alt. yrs. 90-91)**

Programming in the solution of scientific problems. Problems requiring the solution of linear systems of equations are emphasized. Introduction to simulation and modeling. *Prereq: C Sc 200 and 250, Math 200 and 220.*

330 SCIENTIFIC COMPUTING II**5 hrs. (alt. yrs. 91-92)**

Advanced programming techniques in the solution of scientific problems using interpolation, numerical differentiation and integration, solution of differential equations, and other numerical

techniques. (Applies towards a mathematics major.) *Prereq: C Sc 200 and 250, Math 200 and 220.*

350 BUSINESS COMPUTING I

5 hrs.

Introduction to business system design and programming. Central to the course is a group project for which file design, data capture and reporting, procedure documentation, and program design are explored. Advanced COBOL programming is used to create master files and develop on-line display and update capabilities. *Prereq: C Sc 200 and 250.*

360 BUSINESS COMPUTING II

5 hrs.

A continuation of CS-350, completing the group project by developing the business system processing and reporting programs. A survey of the design characteristics of the most common types of on-line business computer applications is included. *Prereq: C Sc 350*

370 COMPUTER GRAPHICS

5 hrs. (alt. yrs. 90-91)

Introduction to computer graphics, including bar graphing, two and three dimensional plots, hidden line and shading problems. *Prereq: C Sc 190 and Math 220.*

380 DATA BASE AND SCREEN PROCESSING

5 hrs. (alt. yrs. 91-92)

Introduction to types of data base systems, data base languages, terminals and form oriented screen processing. *Prereq: C Sc 200*

490 SPECIAL TOPICS

2-5 hrs.

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

MUSIC

Achter (chairperson), Barkhymer, Chivington, DeVenney, Haberkorn, Johnson, Tirey.

The Department of Music is a Full Member of the National Association of Schools of Music (NASM).

A **major in music** may receive one of three degrees: Bachelor of Music Education, Bachelor of Arts in Music, or Bachelor of Fine Arts in Musical Theater. 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.

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, music department activities record, and studio teacher's evaluation. The results of the sophomore conference may be 1) continuation, 2) continuation on probation with specified deficiencies to be remedied and demonstrated at a re-examination, 3) non-continuation in the music program.

Candidates for all three degrees must play or sing creditably in regular recitals of the department; B.M.E. and B.A. students must participate in one or more of the campus major musical ensembles during each quarter they are enrolled at the college.

A **minor in music** consists of 25-30 hours well-balanced among applied music, theory, history, and ensembles, and approved in advance by the department chairperson.

All B.M.E. and B.A. music majors must complete the following core of music courses:

Music Core Courses

Theory: 180/181, 190/191, 200/201, 210/211, 220/221

20 hrs

(Must take 110/111 if not proficient)

History: 230, 240, 250

12 hrs

Conducting: 260

2 hrs

Voice: 120 or 472
Piano: 130 or 473 (Must register until proficient)

3 hrs
3 hrs
40 hrs

Bachelor of Music Education Degree

This course of study leads to the Music Special Certificate and prepares students for teaching instrumental and vocal music in the public schools, K - 12. Otterbein is accredited by the National Council for the Accreditation of Teacher Education (NCATE).

In addition to departmental ensemble requirements, instrumental majors should be in a vocal ensemble for at least one year. Vocal majors should have at least one year of band or orchestra. B.M.E. students will complete the music core courses and the following:

Required Music Courses

Conducting: 262, 264	4 hrs
Applied Music in one performance concentration: 460's (12 terms)	24 hrs
Instrumental Methods: 290, 291, 300, 301	8 hrs
Music education methods: 370, 375, 380	12 hrs

Professional Education Courses

Consult the Department of Education booklet, "Teacher Education Programs," for required courses in professional education.

Bachelor of Arts Degree

Five programs are available that lead to a B.A. in Music degree. All students working toward this degree must complete the music core courses and complete the requirements for one of the emphases below.

1) *Applied Music.*

Conducting: 262, 264	4 hrs
Applied Music in one performance concentration: 460's (12 terms)	24 hrs

Majors with an applied music emphasis must creditably perform a full senior recital.

2) *History/Literature.* (Music Journalism, Music Librarianship)

Conducting 262, 264	
Applied Music: 470's (12 terms)	4 hrs
Two additional courses in history/literature	12 hrs
	10 hrs

3) *Theory/Composition.*

Conducting 262, 264	
Applied Music: 470's (12 terms)	4 hrs
Two additional courses in theory/composition	12 hrs
	10 hrs

4) *Music/Business.*

This program consists of a major in music and a minor in business. 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.

Ensembles (must participate each term)	6 hrs
Applied Music: 470's (12 terms)	12 hrs
Arts Management: THR 280	3 hrs
Internship: 490	4 - 15 hrs

Additional conducting courses are strongly advised.

A minor in Business Administration consists of 30 credit hours of business courses.

Selections from the following courses are suggested.

ACCT 200 Financial Accounting
ECON 210 Principles of Economics--Micro
BADM 300 Principles of Management
BADM 310 Principles of Marketing
BADM 320 Personnel and Human Resources Mgmt

- 5) **Individualized Degree.** See Catalog pg. 7 for college requirements and procedure.
Students with special needs and interests develop an approved program designed for their unique situations. Must meet NASM standards.

Bachelor of Fine Arts in Musical Theatre

This program is designed to prepare students for careers in the professional musical theatre. It is interdisciplinary and is administered jointly by the Department of Music and the Department of Theatre and Dance. Selection and admission is made on the basis of a joint interview and audition with both departments. All B.F.A. students are evaluated by the faculty at the end of their freshman and sophomore years. Approval of the faculty is required for continuation in the B.F.A. in Musical Theatre program. Students must complete 127 hours of Theatre, Music and Dance classes, as follows:

Studies in musical theatre, including voice and acting (45 hrs): Theatre 130, 150, 230, 260, 270, 430, 440; Music 420, 421; and 15 hours of applied voice, Music 462 and/or 472.

Studies in dance and movement (18 hrs): Dance 110, 210, and 14 hours of technique classes selected from Dance 130-160, 230-260, 330-360, 430-450. Students must take at least one class in each technique: ballet, modern, jazz, and tap.

Supportive courses in music and theatre (36 hrs): Music 100/101, 110/111, 130 or 473, 440, and 6 hours of ensembles, selected from Music 451, 452, 454, 455; Theatre 100, 160, 170, 200, 210 or 220 or 240, and 320.

History and theory courses selected from the following (8-10 hrs): Theatre 250, 290, 400; Dance 120, 220; Music 180/181, 190/191, 240.

Electives selected from the following (18-20 hrs): Theatre 280, 300, 310, 360, 370, 380, 410, 490; Dance 300, 320, 420, 480, or additional technique classes: Dance 330-360, 430-450; Music 200/201, 210/211, 220/221, 230, 240, 276, 280, 400, 490.

Music Courses (Music)

100 FUNDAMENTALS OF MUSIC

2 hrs.

A practical introduction to vocabulary and notation, assuming little or no prior knowledge of music. *Open to theater and non-music majors.*

101 EAR TRAINING AND SIGHT SINGING

1 hrs.

To be taken in conjunction with Music 100. Laboratory and classroom instruction.

110 BASIC MUSICIANSHIP

2 hrs.

The vocabulary and notation of music: scales, key signatures, intervals, triads, melodic and rhythmic perception. *Open to non-music majors with permission of chairperson.*

111 EAR TRAINING AND SIGHT SINGING

1 hrs.

To be taken in conjunction with Music 110. Laboratory and classroom instruction.

120 VOICE CLASS

1 hrs. (three terms)

Students may be excused from this course by proficiency exam. Beginning course in vocal techniques and song literature; required of all students unable to satisfy audition for private instruction. Course must be repeated for total of three credits. Credit will not count unless sequence of three courses is completed in a single school year—exceptions will be made only for students who show sufficient progress and are placed in Music 472 after one or two terms. *Must be taken for credit.*

130 PIANO CLASS

1 hrs. (three terms)

Students may be excused from this course by proficiency exam. Beginning course in piano techniques and literature; required of all majors unable to satisfy audition for private instruction. Course must be repeated for total of three credits. Credit will not count unless sequence of three

courses is completed in a single school year—exceptions will be made only for students who show sufficient progress and are placed in Music 473. Must be repeated until student passes Piano Proficiency Exam, available from Head of Keyboard Area. *Must be taken for credit.*

140 GUITAR CLASS

1 hrs. (three terms)

Beginning course in guitar techniques and literature; required of all students unable to satisfy audition for private instruction. Course must be repeated for total of three credits. Credit will not count unless sequence of three courses is completed in a single school year—exceptions will be made only for students who show sufficient progress and are placed in Music 474 after one or two terms. *Must be taken for credit.*

180 THEORY I: DIATONIC HARMONY

3 hrs.

Includes triads and seventh chords in four-part writing, nonharmonics and analysis of melodic phrases. *Prereq: Placement exam or Musc 110.*

181 EAR TRAINING AND SIGHT SINGING

1 hr.

To be taken in conjunction with Music 180. Laboratory and classroom instruction.

190 THEORY II: CHROMATIC HARMONY

3 hrs.

Includes modulation, analysis of chorales and binary form. *Prereq: Placement exam or Musc 180.*

191 EAR TRAINING AND SIGHT SINGING

1 hr.

To be taken in conjunction with Music 190. Laboratory and classroom instruction.

200 THEORY III: 18TH CENTURY STYLES

3 hrs.

Includes 18th-century counterpoint, fugue, and the Classical forms. *Prereq: Musc 190.*

201 EAR TRAINING AND SIGHT SINGING

1 hr.

To be taken in conjunction with Music 200. Laboratory and classroom instruction.

210 THEORY IV: 19TH CENTURY STYLES

3 hrs.

Includes small instrumental and vocal forms. *Prereq: Musc 200.*

211 EAR TRAINING AND SIGHT SINGING

1 hr.

To be taken in conjunction with Music 210. Laboratory and classroom instruction.

220 THEORY V: 20TH CENTURY STYLES

3 hrs.

Includes Impressionism, atonality, serialism and other contemporary concepts. *Prereq: Musc 210.*

221 EAR TRAINING AND SIGHT SINGING

1 hr.

To be taken in conjunction with Music 220. Laboratory and classroom instruction.

230 MUSIC HISTORY I

4 hrs.

A survey of the history of music from antiquity through the Renaissance. *Prereq: Musc 220 or permission of instructor.*

240 MUSIC HISTORY II

4 hrs.

A survey of the history of music during the Baroque and Classic eras. *Prereq: Musc 230 or permission of instructor.*

250 MUSIC HISTORY III

4 hrs.

A survey of the history of music during the 19th and 20th centuries. *Prereq: Musc 240 or permission of instructor.*

260 BASIC CONDUCTING

2 hrs.

Baton techniques, score reading and rehearsal procedures for both choral and instrumental music. Required of music education majors. *Prereq: Musc 190*

262 INTERMEDIATE CONDUCTING**2 hrs.**

A continuation of conducting techniques with emphases in the areas of choral and instrumental rehearsal procedures. More advance work in choral arranging and orchestration will be included.

Prereq: Musc 260.

264 ADVANCED CONDUCTING AND ORCHESTRATION**2 hrs.**

Advanced conducting techniques and score preparation. Choral and instrumental repertoires will be surveyed. Final conducting projects in the student's specific areas of expertise are required. *Prereq: Musc 262*

270 MUSIC FOR THE CLASSROOM TEACHER**4 hrs.**

Includes music reading, practical keyboard, guitar playing, recorder playing, and conducting, with laboratory experiences in the use of music, methods, and materials representing diverse cultures in the elementary classroom. *Not open to music majors.*

275 POPULAR MUSIC STYLES**2 hrs.**

A history of ragtime, jazz and rock evolution. Consideration will be given to the influence of American social trends and technological innovations. *Prereq: InSt 100, 105, or 110.*

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 a study of modes, blues scales and jazz patterns, students will learn to improvise on their major instrument. *Prereq: Musc 190 or permission of instructor.*

280 BEGINNING COMPOSITION**2 hrs.**

Principles and techniques of composition in small forms for various media. *Prereq: Musc 220 or permission of instructor.*

285 ELECTRONIC MUSIC STUDIO**2 hrs.**

An introduction to musical acoustics, tunings and temperaments, classic tape studio and MIDI. necessary for access to the College's Electronic Music Studio. *Prereq: Two terms of theory or permission of the instructor.*

290/91 STRING AND PERCUSSION METHODS**4 hrs. (three terms)**

History, techniques, tone production, teaching methods and care of the various string and percussion instruments. Required of music education majors.

300/301 WOODWIND AND BRASS METHODS**4 hrs. (three terms)**

History, techniques, tone production, teaching methods and care of the various woodwind and brass instruments. Required of music education majors.

310 PIANO PEDAGOGY**2 hrs.**

Survey of methods and materials for elementary and intermediate piano students. An elective course for piano majors. Includes survey of literature for advanced pianists. Offered upon sufficient demand. *Prereq: Permission of the instructor.*

320 ACCOMPANYING**2 hrs.**

Techniques of transposition and score reading. Includes a survey of chamber and song literature. Students will be assigned practical accompanying projects. May be repeated for credit. *Prereq: Permission of the instructor.*

330 MUSIC IN WORLD CULTURES**5 hrs. (alt. yrs.)**

The place of music in culture, the values a society attaches to it and the people who practice it, primarily in non-Western, non-industrialized countries. Consideration of historical periods and theoretical constructs which exist in literate societies such as India, China, and Japan.

335 AMERICAN MUSIC**5 hrs. (alt. yrs.)**

A survey of American music from the pilgrims to the present; how evolving American society determined an evolving American music. Includes study of both popular and artistic traditions.

370 MUSIC METHODS AND MATERIALS**FOR THE ELEMENTARY SCHOOL****4 hrs.**

Materials and methods for the elementary music classroom; 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.

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, historic periods and styles. Practical keyboard and guitar skills. Teaching the non-performance music class.

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.

390 INDEPENDENT STUDY W/S**2 to 4 hrs.**

Topic(s) to be selected by student(s) with approval of the chairperson. May be repeated for credit.

400 DICTION FOR SINGERS**2 hrs.**

Basic diction in French, German and Italian. Includes study of the International Phonetics Alphabet and its application to solovocal literature in the three languages. *Prereq: Musc 462 or 472.*

405 VOCAL PEDAGOGY AND LITERATURE**2 hrs.**

An exploration of the vocal mechanism. Vocal literature and editions will be surveyed. The course is designed to provide the basic skills necessary to teach voice in the private studio. *Prereq: Musc 462 or 472 and permission of the instructor.*

420 MUSICAL THEATRE WORKSHOP**2 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.*

421 MUSICAL THEATRE PRACTICUM**2 hrs.**

Preparation and public performance of a solo cabaret project. Required of senior musical theatre majors.

440 AMERICAN MUSICAL THEATRE**2 hrs.**

A survey of musical theatre in America from the 18th century to the present.

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.*

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 courses and survey the literature and methods of teaching music theory. May be repeated for credit. *Offered on demand.*

448 ADVANCED COMPOSITION**2 hrs.**

Individual study; composition in larger forms. May be repeated for credit. *Prereq: Musc 280 or permission of instructor. Offered on demand.*

450 SMALL ENSEMBLE**0 credit Autumn, 1 hr. each Winter & Spring**

Three hours rehearsal per week. Brass quintet, flute ensemble, piano duo, piano trio, saxophone quartet, string quartet, trombone choir, tuba ensemble, woodwind quintet and others. Sequence of three courses must be completed for a total of two hours credit. Credit will not count unless the sequence of three courses is completed.

451 OPERA THEATRE**1 hr.**

Three hours rehearsal per week. Course must be repeated for a total of three hours credit. Credit will not count unless a sequence of three courses is completed in a single school year. Open by audition.

452 OPUS ZERO/OPUS ONE**1 hr.**

Three hours rehearsal per week. Course must be repeated for a total of three hours credit. Credit will not count unless a sequence of three courses is completed in a single school year. *Open by audition. Members must also be registered simultaneously for Musc 454 or 455.*

453 CARDINAL MARCHING BAND AND CONCERT BAND**1 hr.**

Four hours rehearsal per week. Courses may be repeated for up to three hours credit per year. Credit will not count unless a sequence of three courses is completed in a single school year.

453.10 CARDINAL MARCHING BAND**1 hr. Autumn****453.20 CONCERT BAND****1 hr. each Winter and Spring****454 OTTERBEIN CHORALE/
WOMEN'S CHAMBER SINGERS****1 hr.**

Four hours rehearsal per week. Sequence of three courses must be completed for a total of two hours credit. Credit will not count unless the sequence of three courses is completed.

455 CONCERT CHOIR**1 hr.**

Four hours rehearsal per week. Course must be repeated for a total of three hours credit. Credit will not count unless a sequence of three courses is completed in a single school year.

456 ORCHESTRA**1 hr.**

Four hours rehearsal per week. Course must be repeated for a total of three hours credit. Credit will not count unless a sequence of three courses is completed in a single school year.

457 JAZZ-LAB BAND**0 credit Autumn, 1 hr. each Winter & Spring**

Three hours rehearsal per week. Sequence of three courses must be completed for a total of two hours credit. Credit will not count unless the sequence of three courses is completed in a single school year.

458 PERCUSSION ENSEMBLE**0 credit Autumn, 1 hr. each Winter & Spring**

Three hours rehearsal per week. Sequence of three courses must be completed for a total of two hours credit. Credit will not count unless the sequence of three courses is completed in a single school year.

459 EARLY MUSIC ENSEMBLE**0 credit Autumn, 1 hr. each Winter & Spring**

Two hours rehearsal per week. Sequence of three courses must be completed for a total of two hours credit. Credit will not count unless the sequence of three courses is completed in a single school year.

Courses numbered 460-468 carry two hours credit per term and must be repeated for a total of six hours credit. Credit will not count toward graduation unless the sequence of three courses is completed in a single school year. An audition may be required. Each course involves a full period lesson per week.

460 APPLIED WOODWINDS
461 APPLIED BRASS
462 APPLIED VOICE
463 APPLIED PIANO
464 APPLIED GUITAR
465 APPLIED STRINGS
466 APPLIED PERCUSSION
467 APPLIED ORGAN

Courses numbered 470-478 carry one hour credit per term and must be repeated for a total of three hours credit. Credit will not count toward graduation unless the sequence of three courses is completed in a single school year. An audition may be required. Each course involves a half period lesson per week.

470 APPLIED WOODWINDS
471 APPLIED BRASS
472 APPLIED VOICE
473 APPLIED PIANO
474 APPLIED GUITAR
475 APPLIED STRINGS
476 APPLIED PERCUSSION
477 APPLIED ORGAN

490 INTERNSHIP

1-15 hrs.

Available in music and business, musical theatre and other areas. *Prereq: Permission of the chairperson.*

All Ensemble Courses (Music 450s) may also be elected for no credit.

NURSING

Strayer (chairperson), Burnam, Carlson, Corbeil, Cornett, Engle, Jedlicka, McCarthy, McKelvey, Mikolaj, Pryor-McCann, Schaffner, Stanek, Vogt.

Three tracks are available that lead to a B.S. in nursing degree. One track is the four-year curriculum which enables graduates to sit for 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 sit for the national licensing examination in nursing.

Track I: Four-Year Curriculum

The four-year curriculum consists of Nursing 240, 260, 270, 280, 350, 360, 370, 440, 450, 460, 470, 480 and one of the following: 400, 401, 402 or 403; Chemistry 110, 220, 230; Life Science 170, 180, 200, 300; Sociology 120; Psychology 210; Math 115, 230; a Computer Science elective; a free elective; five lower division Integrative Studies courses (I.S. 130- Psychology is required); five upper division Integrative Studies courses and three hours of physical education.

A minimum grade of "C" is required in all B.S.N. nursing courses and all required science courses. If a grade lower than "C" is earned, these courses must be repeated in order to enroll in subsequent nursing courses.

Any student receiving two "D" or "F" grades in any combination of these courses will no longer be able to continue in the B.S.N. program. The student may attempt only one nursing course twice in the B.S.N. program. An attempt is defined as being enrolled in a course beyond the twenty-fifth class day.

Track II: R.N. Students

The Bachelor of Science in Nursing track for registered nurses consists of Nursing 300, 350, 440, 450, 460, 470, 480 and one of the following: 400, 401, 402 or 403; Life Science 300; a free

elective; and five upper division Integrative Studies courses. The physical education requirement must be completed by the full-time B.S.N. degree students but is waived for part-time continuing studies students. Lower division course prerequisites for entry into the B.S.N. program are Chemistry 110, 220, 230; Life Science 170, 180, 200; Sociology 120; Psychology 210; Math 115, 230; a Computer Science elective; lower division Nursing courses; and five lower division Integrative Studies courses. Credit for these lower division prerequisites may be established by taking courses at Otterbein, by transfer, or by validation examination.

A minimum grade of "C" is required in all B.S.N. nursing courses, Life Science 300 and the following lower division prerequisite courses: Life Science 170, 180, 200; and Chemistry 110, 220, 230. If a grade lower than "C" is earned, these courses must be repeated in order to enroll in subsequent nursing courses.

Any student receiving two "D" or "F" grades in any combination of these courses will no longer be able to continue in the B.S.N. program. The student may attempt only one nursing course twice in the B.S.N. program. An attempt is defined as being enrolled in a course beyond the twenty-fifth class day.

Track III: LPN Students

The Bachelor of Science in Nursing track for licensed practical nurses consists of Nursing 240, 260 or Nursing 290-10 (if departmental examination credit is received for Nursing 260), 270, 280 or 290-20 (if departmental examination credit is received for Nursing 280), 350, 360, 370, 440, 450, 460, 470, 480, and one of the following: 400, 401, 402, 403; Chemistry 110, 220, 230; Life Science 170, 180, 200, 300, Sociology 120; Psychology 210; Math 115, 230; a Computer Science elective; a free elective; five lower division Integrative Studies courses (Integrative Studies 130-Psychology is required); and five upper division Integrative Studies courses. The physical education requirement must be completed by the full-time B.S.N. degree students but is waived for part-time continuing studies students.

A minimum grade of "C" is required in all B.S.N. nursing courses and all required science courses. If a grade lower than "C" is earned, these courses must be repeated in order to enroll in subsequent nursing courses.

Any student receiving two "D" or "F" grades in any combination of these courses will no longer be able to continue in the B.S.N. program. The student may attempt only one nursing course twice in the B.S.N. program. An attempt is defined as being enrolled in a course beyond the twenty-fifth class day.

Nursing Courses (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, 120, L Sc 170, 180.*

260 FOUNDATIONS FOR HEALTH PROMOTION/MAINTENANCE

6 hrs.

An introduction to the theoretical foundations of nursing and concepts of health promotion/maintenance. Beginning use of caring and the nursing process. Development of basic health assessment skills. *Prereq: Chemistry 110; Life Science 170, 180.*

270 HEALTH PROMOTION/RESTORATION OF THE ADULT

7 hrs.

An introduction to the concepts of health promotion/restoration of the adult. Examination of basic cultural and social concepts that influence the adult's health. Examination of alterations in nutrition/elimination, gas transport, and protective, regulatory, and sensorimotor processes. Further application of caring and the nursing process to adult clients. *Prereq: Nursing 260, Chemistry 220. Concurrent or prereq: Chemistry 230.*

280 HEALTH CARE OF THE CHILDBEARING FAMILY

7 hrs.

Examination of the effects of pregnancy and the birthing process on family members within their cultural and social context. Application of caring and the nursing process to promote the health

of the childbearing family through the antepartal, intrapartal, natal, and postpartal periods. *Prereq: Nursing 260, 270; Chemistry 230. Concurrent or prereq: Psychology 210; Nursing 240.*

290.10 TRANSITION TOPICS IN NURSING I

1 hr.

An introduction to the concepts of health promotion and health maintenance. Beginning application of caring, communication techniques, and the nursing process to adult clients. (For LPNs who have received credit for Nursing 260 through validation exam.)

290.20 TRANSITION TOPICS IN NURSING II

1 hr.

Examination of the determinants that risk the health of the childbearing family. Nursing process is used to examine the effect of actual/potential health alterations in the childbearing family. (For LPNs who have received credit for Nursing 280 through validation exam.)

300 THEORETICAL FOUNDATIONS IN NURSING

3 hrs.

A transitional course for RNs introducing the philosophy and conceptual framework of the curriculum. Includes the theoretical foundations of nursing, the role of the professional nurse, small group theories and process, the concept of human caring, and the application of the nursing process. (For RN students only.)

350 HEALTH ASSESSMENT/PROMOTION OF THE INDIVIDUAL

8 hrs.

Development of assessment skills to determine the health of the individual. Examination of lifestyles and culture that influence the health of individuals and application of developmental theories across the lifespan. Examination of the role of the nurse in promoting the health of the individual. *Prereq: Nursing 260, 270, 280. Concurrent or prereq: for RNs only: Nursing 300.*

360 PROMOTION/MAINTENANCE/RESTORATION OF THE INDIVIDUAL'S MENTAL HEALTH

8 hrs.

An introduction to theories and characteristics related to mental health/illness of individuals within families. Emphasis is on promotion, maintenance and restoration of the individual's mental health. Students also explore the principles of group process within a peer group setting. *Prereq: Nursing 350.*

370 HEALTH PROMOTION/MAINTENANCE/RESTORATION OF THE CHILDREARING FAMILY

8 hrs.

A study of health determinants of the childrearing family. Discussion of genetic, environmental, developmental and physiological influences affecting the health of children and childrearing families. Emphasis is on the role of the nursing in promotion, maintenance and restoration of health of the childrearing family. *Prereq: Nursing 350; Life Science 200. Concurrent or prereq: Life Science 300.*

400 INDEPENDENT STUDY W/S

3 hrs.

The student must negotiate with a faculty member to establish a learning contract prior to registration for this course. The course content is determined by the faculty member and student collaboratively. The course is designed for the student who wishes to study a specific nursing problem intensively. *Prereq: Upper division status.*

401 ISSUES AND TRENDS IN GERONTOLOGY

3 hrs.

A study of the aging population and their influence on health care delivery. Discussion of economic and political issues and trends affecting the health of the aged. Examination of the health potential of the elderly. Discussion of cultural influences and values toward the aged. *Prereq: Senior status or permission of instructor.*

402 COMPUTER APPLICATIONS IN NURSING

3 hrs.

A study of the current and historical relationship between nursing and computers and computer application in community health, health care delivery systems, health education, nursing practice and research. Examination of ethical issues related to use of computers within the profession of nursing. *Prereq: Lower division computer course, senior status, or permission of instructor.*

403 WOMEN'S HEALTH ISSUES W/S

3 hrs.

A study of social, economic, cultural and political forces influencing the health of women. Examination of personal and professional responsibilities in promotion and maintenance of women's health. *Prereq: Senior status or permission of instructor.*

440 ISSUES AND TRENDS IN NURSING AND HEALTH

3 hrs.

A study of social, economic, political and educational forces influencing nursing and health care in the United States. Consideration of nursing as a caring profession from a historical and perspective. Examination of professional, legal, and ethical responsibilities of the nurse and career opportunities available within the profession. *Prereq: Nursing 350, 360, 370, or permission of instructor.*

450 NURSING RESEARCH

3 hrs.

An introduction to research in nursing. Includes analyzing research in nursing and health related fields. Examination of research methodologies and techniques used in nursing research. Critical analysis of the literature related to a nursing practice problem. *Prereq: Nursing 350, 360, 370; Math 230 or permission of instructor.*

460 COMMUNITY HEALTH CARE DELIVERY

8 hrs.

Development of assessment skills to determine the health of a community. Application of theories related to families within the community. Includes an analysis of community interaction, cultural diversity, theories related to community health and determinants that risk the health of individuals and families in the community. Discussion of the role of the community in health maintenance and promotion. The concept of caring and the nursing process are extended to the community. *Prereq: Nursing 350, 360, 370.*

470 HEALTH MAINTENANCE/RESTORATION OF INDIVIDUALS AND FAMILIES

8 hrs.

A study of theories related to stress and crises intervention. Discussion of ethical/moral issues associated with advanced technology that affects human dignity. Examination of multisystem disorders that result in physiological/ psychological crisis. Application of caring and nursing process to clients and families in crisis. *Prereq: Nursing 350, 360, 370; Life Science 300.*

480 NURSING LEADERSHIP IN HEALTH CARE DELIVERY SYSTEMS

8 hrs.

Assessment of health care delivery systems in relation to organizational culture, structure and communication. Study of organizational, leadership, management, and change theories with application to health care delivery systems. Discussion of variables affecting health care delivery. Integration of the role of the nurse and application of leadership skills within health care delivery systems. *Prereq: Nursing 470; for RNs: Nursing 460 or 470.*

PHYSICS AND ASTRONOMY

Arnold (chairperson), Barnhart.

A **major in physics** consists of the core courses: Physics 140, 150, 160, 300, 305, 310, 430, 440 and additional physics courses, or physics courses plus Chemistry 360 to total at least 44 quarter hours. Courses in computer science and courses in mathematics through Mathematics 220 and Mathematics 350 are recommended.

An **astronomy concentration** in physics consists of the physics core listed above, Integrative Studies 410, six quarter hours of special topics credit in astronomy and at least six additional quarter hours of physics course credit.

Students planning to pursue graduate study in physics or astronomy should include Physics 410.

Pre-engineering students should complete Mathematics 200 and Physics 300 or 350. Recommended courses specified by engineering schools include Mathematics 220, 330 and 350, Computer Science 250 and 320, and Chemistry 140, 150, 160, and 310.

A **minor in physics** consists of physics 140, 150, 160, and any additional 12 quarter hours in physics.

Students seeking a **secondary teaching certification** should select Physics 280 and 370 in addition to the core courses, plus at least four additional quarter hours in physics.

Physics and Astronomy Courses (Phys)

140 PRINCIPLES OF PHYSICS I

5 hrs.

An introduction to mechanics as a foundation for the rest of the discipline of physics. With laboratory. *Coreq: Math 170.*

150 PRINCIPLES OF PHYSICS II

5 hrs.

A continuation of Physics 140: thermodynamics, wave phenomena and electrostatics. With laboratory. *Coreq: Math 180. Prereq: Phys 140.*

160 PRINCIPLES OF PHYSICS III

5 hrs.

A continuation of Physics 150: magnetism, optics, atomic and nuclear physics. With laboratory. *Recommended Coreq: Math 190. Prereq: Phys 150.*

280 OPTICS

4 hrs. (alt. yrs. 94-95)

The study of the nature of light based upon the wave and quantum characteristics of electromagnetic radiation. With laboratory. *Prereq: Phys 160.*

300 DYNAMICS I

3 hrs. (alt. yrs. 93-94)

Foundation of Newtonian Dynamics: motion of particles in linear and nonlinear systems, angular momentum and the central force problem. With computer modeling. *Prereq: Phys 160.*

305 DYNAMICS II

3 hrs. (alt. yrs. 93-94)

A continuation of Physics 300: rigid body motion, continuum and wave mechanics, mechanical stability. With computer modeling. (Formerly Physics 330) *Coreq: Math 200. Prereq: Phys 300.*

310 ELECTROMAGNETIC THEORY

3 hrs. (alt yrs. 93-94)

An intermediate treatment of electric and magnetic fields in a vacuum. *Coreq: Math 200. Prereq: Phys 160.*

350 ELECTRICAL CIRCUITS

4 hrs. (alt. yrs. 93-94)

Introduction to circuit theory and application of typical circuit elements, both passive and active. With laboratory.

370 INSTRUMENTAL ELECTRONICS

4 hrs. (alt. yrs. 93-94)

Theory of operation and application of linear and digital electronic devices as used in measurement and control in the scientific laboratory. With laboratory. *Prereq: Phys 350.*

390 SPECIAL TOPICS

2-6 hrs. or variable hours

(limited to no more than 6 hrs. of credit)

Independent study of any physics or physics-related topics, including education or industrial applications. Requires consultation with a physics faculty member and approval of the project by the department.

410 QUANTUM MECHANICS

3 hrs. (alt. yrs. 94-95)

A study of the Schroedinger equation and its solutions, operators, eigenvalues, and eigenfunctions. Some applications in atomic physics will be considered. *Prereq: Math 350, Phys 160.*

430 MODERN PHYSICS I

4 hrs. (alt. yrs. 94-95)

Study of relativity, quantization of matter, electric charge and radiation and elementary atomic structure. With laboratory. *Prereq: Phys 160.*

440 MODERN PHYSICS II

4 hrs. (alt. yrs. 94-95)

Study of nuclear structure, nuclear reactions and radioactivity. With laboratory. *Prereq: Phys*

450 SENIOR SEMINAR

3 hrs.

An opportunity to demonstrate capability to perform advanced laboratory functions, experimental design or advanced theoretical manipulation. May involve an introduction to journal reading. Strongly recommended for majors intending to enter graduate school. *Prereq: 30 hours of physics coursework.*

PSYCHOLOGY

Kraft (chairperson), Cox, Hatter, Laurie, Thomas.

A **major in psychology** consists of Psychology 210, 220, 230, 260; Mathematics 230; and 25 quarter hours of other psychology courses chosen from Psychology 240, 310, 320, 330, 340, 350, 360, 370, 380, 420, 421, 430. A **minor in psychology** consists of Psychology 210 and 220 plus 15 quarter hours chosen from Psychology 230, 240, 260, 310, 320, 330, 340, 350, 360, 370, 380, 420, 421, 430.

Psychology Courses (Psyc)

210 DEVELOPMENTAL PSYCHOLOGY

5 hrs.

A study of how humans develop physically, emotionally and cognitively. Prenatal development, birth, infancy, childhood and adolescence are the periods covered. Some topics included are attachment, language, sex-roles, and social and personality development.

220 PSYCHOLOGY OF PERSONALITY W/S

5 hrs.

The major personality theories (developed by Freud, Jung, Adler, Horney, Kelly, Rogers, etc.) are examined with regard to the structure, dynamics and development of personality using research and clinical evidence. *Prereq: Psyc 210 or sophomore standing, or permission of instructor.*

230 PSYCHOLOGY OF LEARNING

5 hrs.

Using examples drawn from both human and animal research, this course will study the modifications in behavior that result from experience, ranging from the discussion of simple conditioning phenomena to complex functions (such as problem solving and thinking). *Prereq: Psyc 210 or sophomore standing.*

240 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

5 hrs.

An introduction to psychology applied to industrial and organizational settings. Some of the topics covered are personnel assessment, work motivation, employee attitude assessment, stress in the workplace, and performance appraisal. *Prereq: Sophomore standing or permission of the instructor.*

260 EXPERIMENTAL PSYCHOLOGY

5 hrs.

Basic introduction to issues and problems in experimental design and inference in psychological research. An applied component is participation in laboratory experience and research. *Prereq: Psyc 210, 220, 230 and Math 230.*

310 COGNITIVE PSYCHOLOGY

5 hrs.

Using a research-based approach, this course examines how information is stored, processed, accessed and utilized. Some of the topics covered are perception, memory, knowledge representation, language processing, decision-making, and creativity. *Prereq: Psyc 210, 220, 230, 260, or minimum junior standing and strong science background.*

320 PSYCHOLOGY OF MOTIVATION

5 hrs.

This course studies the forces causing behavior and thought. Some of the major topics covered are basic motivation theories, arousal, sexuality, aggression, hunger, thirst, stress, addiction, creativity, achievement and helping behavior. *Prereq: Psyc 210 and 230.*

330 ABNORMAL PSYCHOLOGY

5 hrs.

The investigation of disordered behaviors, deficiencies in behavior capacities and disordered personalities. The conceptual framework is based on an integration of relevant biological, psychological and sociological data. *Prereq: Psysc 210 and 220, or permission of instructor.*

340 EXPERIMENTAL SOCIAL PSYCHOLOGY

5 hrs.

This course focuses on factors that affect human interactions. Major topics covered are attitude formation and assessment, persuasion, interpersonal attraction, sexuality, aggression, prejudice, and conformity. *Prereq: Psysc 260.*

350 PSYCHOLOGICAL ASSESSMENT:

5 hrs.

BASIC CONCEPTS AND TESTS OF ABILITY

Theoretical basis for the testing field in general; principles and technical skills necessary for developing, administering and scoring of tests and measurements; supervised testing experiences with tests used frequently by professionals to assess general and specific abilities. *Prereq: Psysc 210 or equivalent and Math 230 or permission of instructor.*

360 PSYCHOLOGICAL ASSESSMENT: PERSONALITY

5 hrs.

Basic concepts of assessment as they relate to the study of personality and behavior. Detailed exploration and supervised experience with the major personality assessment instruments. *Prereq: Psysc 350 or equivalent experience.*

370 HISTORY AND SYSTEMS IN PSYCHOLOGY

5 hrs.

This course will focus on the history of psychology along with the major themes and movements that have emerged and influenced the development of psychology. Some of the major themes to be covered are structuralism, functionalism, experimental positivism, behaviorism, psychoanalysis, humanism, Gestalt and cognitive psychology. *Prereq: Psysc 210, 220, 230, 260.*

380 HUMAN STRESS: ITS NATURE AND CONTROL

5 hrs.

This course will explore the major stressors of modern society, identify the personal characteristics which predispose one to stress, examine the major stress symptoms, and provide experience with stress reduction techniques. *Prereq: Psysc 210, 220 and 230, or permission of instructor.*

390 INDEPENDENT STUDY IN PSYCHOLOGY

1-5 hrs.

Course designed to provide opportunity to engage in independent study in areas not otherwise available. *Prereq: Four psychology courses and faculty member willing to supervise.*

420 PSYCHOTHERAPY I

5 hrs.

The study of major theories of counseling and psychotherapy; experience in specific procedures and techniques including practice interviews, observations, role-playing, and encounter group experiences. The personal growth of the student is emphasized. *Prereq: Psysc 210, 220, and 330, or permission of the instructor.*

421 PSYCHOTHERAPY II

5 hrs.

A continuation of Psychology 420. *Prereq: Psysc 420.*

430 INTRODUCTION TO CLINICAL BIOFEEDBACK

5 hrs.

The investigation of the concepts and issues related to the clinical uses of biofeedback. Includes experience with major biofeedback modalities. Emphasizes relevant medical physiology, basic state of the art electronic principles, and principles of behavior change. *Prereq: Psysc 380 or permission of instructor.*

440 DEPARTMENTAL SEMINAR AND PRACTICUM

2-5 hrs.

Small group discussion of advanced or specialized topics and/or practicum experiences in technical areas of teaching, testing, role-playing, therapy or research. *Prereq: Permission of instructor.*

490 INTERNSHIP EXPERIENCE

5-15 hrs.

Supervised experience in a cooperating agency or institution. Particular internships are designed with regard to the skills of the student and depend on the willingness of a faculty member to work with and supervise qualified and highly motivated students toward such placements. *Prereq: Junior or senior status with appropriate course prerequisites.*

PUBLIC RELATIONS

See description of Public Relations major under the Department of Speech Communication.

RELIGION AND PHILOSOPHY

Laughlin (chairperson), Jackson, Staude, Zimmerman.

RELIGION

A **major in religion** consists of 45 quarter hours of course work in religion, including Religion 100, 140, 150, 300, and 400. In addition, Philosophy 140 is required. Other work in philosophy and Greek 100, 110, and 120 are strongly recommended.

A **minor in religion** consists of 25 quarter hours of course work in religion, including Religion 100.

Religion Courses (Relg)

100 INTRODUCTION TO RELIGION

5 hrs.

A critical study of the nature, history, beliefs, concepts and practices of religion. Particular attention is given to religious experience and language, prehistoric and contemporary tribal religions, and personal faith development.

140 INTRODUCTION TO THE OLD TESTAMENT

5 hrs.

A historical survey of the Old Testament, which sets Israelite history in its Near Eastern context. Attention is given to the key texts and basic theological concepts of the Old Testament.

150 INTRODUCTION TO THE NEW TESTAMENT

5 hrs.

A historical survey of the background and content of the New Testament writings. Special attention is given to basic Christian teachings and to problems of interpreting the literature of the New Testament.

190 SELECTED TOPICS IN RELIGION

1-5 hrs.

A variety of topics will be announced in the class schedule.

210 HISTORY OF CHRISTIANITY

5 hrs.*

A survey of the rise, growth and expansion of Christianity from its primitive period through the Reformation. The course examines important institutional events and issues, as well as key ideas of important theological figures in each era.

220 RELIGION IN AMERICA

5 hrs.*

The history of religion in America from pre-Columbian native (Amerind) to contemporary manifestations, with a focus on the development of the various Christian denominations.

240 RELIGION AND POPULAR CULTURE

3 hrs.*

An examination of the relationship between religion and contemporary culture as reflected in modern art, music, dance, literature, science, drugs, drama, cinema, television, cults and the occult.

280 PAUL AND HIS LETTERS

5 hrs.*

A systematic study of the theology and ethics of Paul based upon the authentic Pauline letters. Attention is also given to the life of Paul the man and to the history of Pauline research.

300 CONTEMPORARY RELIGIOUS THOUGHT

5 hrs.

A study of contemporary religious thinkers whose writings are influencing present day religious thought. Content may vary from year to year. Some background in Biblical studies and philosophy is recommended.

320 PROPHECY AND PREDICTION IN THE BIBLE

5 hrs. *

Students learn to interpret Biblical prophecy and pictures of the future. The class will study selected passages from Old Testament prophets and from Daniel and Revelation and will examine topics like sin and punishment, messianic hope and the relationship between Old and New Testaments.

330 JESUS IN THE SYNOPTIC GOSPELS

5 hrs. (alt. yrs.)

A careful study of the deeds and sayings of Jesus based upon the synoptic Gospels. Particular attention is given to the methodology of Gospel research, the history of life of Jesus research and the theology of the Gospels.

340 LIVING RELIGIONS OF THE EAST

5 hrs.*

An introductory study of one of the major non-Christian religions of the East (e.g., Buddhism, Hinduism, Taoism). Attention is given to origins, tenets, cultural context and popular expressions of the religion studied, as well as to historical and formal connections to other non-Western religions.

390 SPECIAL PROBLEMS IN RELIGION

1-5 hrs.

Independent study. Open to majors in religion and philosophy; by initiative of student and agreement of instructor.

400 SEMINAR IN RELIGION

5 hrs.*

A course designed chiefly for majors though others may register for it. Intended to guide students in discussion and independent research in areas of religious thought. Permission of the instructor is required.

490 INTERNSHIP IN RELIGION

1-15 hrs.

A supervised program in a local church or other institutional setting designed to supply the student with experiences and information useful in formulating vocational directions and goals. Department permission required.

** These courses are offered upon sufficient demand.*

PHILOSOPHY

A **major in philosophy** consists of 40 quarter hours of philosophy, including Philosophy 100, 120, 130, 300, 310, and five hours of Philosophy 390. Students planning to attend graduate school in philosophy should consult the department for their study program.

A **minor in philosophy** consists of Philosophy 100, 120, 130, (200 or 300), and (210 or 310).

Philosophy Courses (Phil)

100 INTRODUCTION TO PHILOSOPHY

5 hrs.

Examination and development of one's own world view with emphasis on such shared concerns as the existence of God, the search for meaning, the possibilities of freedom, and the nature of morality.

120 EFFECTIVE THINKING

5 hrs.

Designed to develop the student's ability to reason clearly, to distinguish between good and bad arguments, and to use intelligence and logic in situations often clouded by emotion.

- 0 GENERAL ETHICS** 5 hrs.
introduction to the thought of influential moral philosophers, an examination of contemporary moral issues, and a critical evaluation of contemporary moral thinking.
- 0 PHILOSOPHY OF RELIGION** 5 hrs.
critical examination of how philosophers and theologians have answered significant religious questions.
- 0 SELECTED TOPICS IN PHILOSOPHY** 1-5 hrs.
variety of topics will be announced in the class schedule.
- 0-300 ANCIENT ROOTS OF CONTEMPORARY THOUGHT** 5 hrs. (alt. yrs.)
examination of the Greek and Medieval ideas that continue to illuminate and shape our thought. Special attention to Plato and Aristotle. Assumes no previous background in philosophy. *Open to freshmen by permission of instructor.*
- 0-310 MODERN ROOTS OF CONTEMPORARY THOUGHT** 5 hrs. (alt. yrs.)
great philosophical thought from the Renaissance to the 20th century. Continuous with philosophy 200-300 in content but suitable for those who have no previous background in philosophy. *Open to freshmen by permission of instructor.*
- 20 COMPUTERS AND LOGIC** 5 hrs.*
introduction to the formal language of symbolic logic by showing 1) how it develops out of ordinary English and 2) that computers operate according to its principles. This course presupposes no math, logic or computer science background.
- 40-340 CONTEMPORARY PHILOSOPHICAL IDEAS** 5 hrs.*
the major competing systems of present philosophical thought with particular attention to existentialism, pragmatism, and analytic philosophy. Specific topics will vary with class interest. Previous contact with philosophy recommended but not required.
- 50 PHILOSOPHY OF SCIENCE** 5 hrs.*
A study of the role and methods of science with particular attention to the tension between "normal" science and such renegade theories as creationism, parapsychology, astrology, and catastrophism. Relevant to students with or without a strong background in science. *Open to freshman by permission of instructor.*
- 390 SPECIAL PROBLEMS IN PHILOSOPHY** 1-5 hrs.
Independent study. Opportunity for work on topics of special interest; by initiative of student and agreement of instructor.

* Indicates courses offered upon sufficient demand.

SOCIOLOGY

Sebo (chairperson), Bauer.

The Sociology Department serves its majors, minors and a very large portion of all Otterbein College students. Through the required and the elective courses listed below, students can expect to learn about major **societal institutions**, such as the family, the criminal justice system, complex organizations and cities. Students can also look forward to acquiring sensitivity to significant social patterns of **diverse** cultures in the U.S. and internationally. Courses on social problems, important social movements and courses focusing on gender, race, class and ethnicity are also available to enhance the students' **critical thinking skills**.

Majors can expect to enrich their liberal arts training by acquiring skills and a knowledge base that prepares them to compete effectively for **graduate studies** in sociology and related fields,

for **employment** in human services in the private and public sectors, and for responsible **community roles**.

Students are encouraged to explore sociological areas they are interested in through **independent studies** and **internship assignments**. These **individualized programs** enable students to develop and test post-graduate plans while working with Otterbein sociology faculty, and to engage in research projects in depth or work that involves increasing responsibility.

A **major in sociology** consists of Sociology 120, 320, 330; Mathematics 230 (Elementary Statistics); and 30 quarter hours from Sociology 110, 210, 230, 250, 270, 290, 300, 310, 340, 350, 380, 390, 440, and 490.

A **minor in Sociology** consists of Sociology 120 plus 20 quarter hours of sociology electives.

The **Women's Studies minor** at Otterbein is currently housed in the Sociology Department. This interdisciplinary program is designed for both female and male students who are interested in diversifying their undergraduate studies to include an appreciation of women's culture. Courses (W/S shown after the course title) elected for this minor examine the role of gender as a concept and as it is applied in societal, racial, and cultural contexts. Examining new scholarship by and about women helps strengthen self-images and critical thinking skills for participating students. The Women's Studies minor consists of 25 quarter hours elected from the following interdisciplinary list: Art History (240), Multicultural Education (360), Human Sexuality (H Ed 320), American Women: A History (370), Women in Music (395), Women's Health Issues (Nurs 403), Psychology of Personality (220), Ways Women Perceive and Are Perceived (Soc 190), Feminist Perspectives in Social Psychology (Soc 230), Sociology of Gender (Soc 270), Inequality and Poverty (Soc 340), Interpersonal Communication (180).

New courses which may be applied to the minor are added each year and **Independent Studies** (390, W/S) may be arranged with any of the participating academic departments.

Students seeking a **secondary teaching certification in sociology** should consult with sociology faculty and the College's *Teacher Education Programs* booklet. Courses useful to education majors are: Sociology 110, 120, 210, 250, 270, 300, 310, 320, 340, and 380.

Concentrations (15 elected credit hours) are available in Family Sociology (Soc 210, 230, 250, 300, 340); Criminology (Soc 210, 250, 290, 300, 310, 340, 350); Urban Sociology (Soc 110, 210, 290, 300, 310) and in Ethnic Minority Studies.

Sociology Courses (Soc)

110 SOCIOLOGY OF POPULAR CULTURE

5 hrs.

A sociological examination of a wide variety of popular art forms with a major emphasis on the mass media (T.V., radio, advertising, newspapers, magazines, movies, and music). The course addresses the relationship between cultural norms and values, and the major themes evident in popular culture products. Subcultural and international variations in popular stereotypes will be analyzed.

120 INTRODUCTORY SOCIOLOGY

5 hrs.

An introduction to major social institutions such as family, education, politics, religion, economy and work, health and medicine. A study of basic types of inequality such as by class, race, gender and age. A review of basic interaction types in groups and organizations. Also featured are sociological theories, research methods and critical analysis of United States society.

190 WAYS WOMEN PERCEIVE AND ARE PERCEIVED, W/S

5 hrs.

Roles and history of women examined and discussed through a series of interdisciplinary lectures, readings, field trips, guest speakers, and films. The sociological and psychological study of ways in which women are perceived and perceive their lives and life choices will allow students to examine their own societal and cultural expectations. Readings will include novels, historical accounts and studies in psychological and sociological research and theory. Both female and male students are invited and encouraged to take this course.

210 SOCIAL PROBLEMS

5 hrs. (alt. yrs. 93-94)

Sociological approaches to the study of selected social problems in American society and the global community. Includes critical analysis of the political economy, institutional and indi-

vidual sources of inequality and deviance. Topics range across such issues as environmental degradation, racism, sexism, poverty, health care crises, immigration and drugs. Observation and research in the field are encouraged. *Prereq: Socl 120*

230 FEMINIST PERSPECTIVES IN SOCIAL PSYCHOLOGY, W/S

5 hrs. (alt. yrs. 93-94)

Focus of the understanding of social life regarding the importance of sexual meaning. Exploring socially constructed realities of sexuality, culture of romance and love and motherhood, concepts of beauty and emotion. Impact of sexism, racism and classicism on the behavior and personality in select cultures. Seminar format. *Prereq: Sophomore standing or permission of the instructor.*

250 SOCIOLOGY OF THE FAMILY

5 hrs.

Study of the family institution with emphasis on the diversity of historical and contemporary family forms, the links between household and the economy, and changing family composition patterns. *Prior completion of Socl 120 is recommended.*

270 SOCIOLOGY OF GENDER, W/S

5 hrs. (alt. yrs. 94-95)

A study of the social and cultural norms governing relations between men and women. Forms of sexism in a variety of cultural and social groups. Unequal consequences of genderized social expectations. History and media, changing roles of men and women in politics, religion, occupations, and family life. *Prereq: Socl 120.*

290 SOCIAL LIFE OF ORGANIZATIONS

5 hrs. (alt. yrs. 93-94)

Study of complex organizations with a focus on the impact of hierarchy, technological change and giant bureaucracies. Study of organizational balance of power issues. Study of organizational relationships between formal organizations and their political, social, legal and economic environments. Problems of corporate and white collar crime, labor and management relations, individuals in organizations. Field trips. *Prereq: Sophomore standing or permission of instructor.*

300 RACIAL AND ETHNIC RELATIONS

5 hrs. (alt. yrs. 93-94)

A study of racial and ethnic relations in the United States society. Unique histories of numerous cultural groups. Theories and cultural dynamics of prejudiced and intergroup relations. Patterns of discrimination in law, education, employment, housing and the media. *Prereq: Socl 210 and junior standing or permission of the instructor. Prior completion of Socl 210 is recommended.*

310 CRIMINOLOGY

5 hrs.

Types of criminal behavior, explanations of crime and societal response to crime. The criminal justice system, prevention and treatment of juvenile delinquency. Explorations of penal systems. Includes observation in a women's prison and in juvenile delinquency facilities. *Prereq: Socl 120. Prior completion of Socl 210 is recommended.*

320 SOCIAL THOUGHT

5 hrs. (alt. yrs. 93-94)

A study of 19th and 20th century sociological theories and their philosophical roots. Critical review of several major perspectives. Opportunity for students to perform comparative analysis and application of selected concepts including feminist and minority theoretical approaches. *Prereq: Socl 120. Open to juniors and seniors. Prior completion of Phil 210 and/or 240 is recommended.*

330 RESEARCH METHODS FOR THE SOCIAL SCIENCES

5 hrs. (alt. yrs. 94-95)

A study of basic quantitative and qualitative methods used in contemporary research in academic, business and government settings. The course covers research design, methods of data collection, sampling techniques, probability theory, data analysis, ethical issues in research, and writing the research report. Opportunity to carry on individuals field work and to work in a research team, or small group. *Prereq: Socl 120 and Math 230.*

340 INEQUALITY AND POVERTY, W/S

5 hrs. (alt. yrs. 94-95)

Critical examination of contemporary issues of poverty and inequality in the U.S., including

understanding of causes and consequences of social class, ethnic, racial, religious and gender stratification. Theoretical implication of research on poverty and inequality, and strategies to deal with homelessness, unemployment, world hunger and plight of refugees will be explored in a seminar format. Observations and research in the field are encouraged. *Prereq: Junior standing or permission of the instructor.*

350 COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS-RECENT TRENDS

5 hrs. (alt. yrs. 94-95)

Analysis and discussion of social behaviors ranging from the usual and the unscheduled to the revolutionary. Global comparison of patterns in 1) social movements such as by racial and ethnic minorities, farm workers, women, students, consumers; and 2) volatile forms of behavior such as terrorism, collective violence, response to natural disasters, strikes, fads, sit-ins, crowd formation, and mass behavior. *Prereq: Junior standing or permission of instructor.*

380 URBAN SOCIOLOGY

5 hrs. (alt. yrs. 94-95)

A study of the development of cities and the nature of social life in contemporary urban society. A focus on problems and solutions characteristic of diverse metropolitan communities in the U.S. and around the world. The course includes field trips and the opportunity to do field research. *Prereq: Socl 120. Prior completion of Socl 210 is recommended.*

390 INDEPENDENT STUDY IN SOCIOLOGY

2-6 hrs.

This course is designed to enable students to engage in individual study and research in a subject area already familiar through previous course work. During the first week of the course, and in consultation with the instructor, students prepare a prospectus on previous related academic work, or special area of interest, specific research topic, and an outline for proposed research report. The course may be repeated on a different topic in the subsequent term. *Prereq: Socl 120 and 210, permission of the instructor, and a Sociology course in the area of the student's independent study.*

440 DEPARTMENTAL SEMINAR

2-5 hrs.

Each week a significant area of sociology is discussed along with relevant recent research, theory and/or human service trends. Occupational opportunities may be discussed, and guest speakers representing the scheduled areas of specialization may be invited. This course is to be taught on an occasional basis, depending on student and faculty interest. *Prereq: Permission of instructor.*

490 SOCIOLOGY INTERNSHIP

1-15 hrs.

This course is intended for senior majors in sociology and related fields. It provides opportunities for practical and/or theoretical work in areas in sociology, supervised by a department faculty member, and where appropriate, by a member of an off-campus organization. Requirements are completion of Socl 320 and 330, above average academic record, fairly clear vocational goals, and permission from a sociology faculty member in response to a written proposal submitted at least one term in advance. Students are encouraged to take part in designing an individualized internship experience around preferred areas of concentration they chose for themselves. Internships may be extended for two terms.

SPANISH

See description of Spanish major under Department of Foreign Languages.

SPEECH COMMUNICATION

Ludlum (chairperson), Buckles, Millsap, Reynolds, Sabbath.

A **major in speech communication** consists of at least 45 quarter hours and is available under four different concentrations. Specific courses are selected by the student in consultation with the department.

1. A **speech communication concentration** consists of 45 quarter hours in speech communication and associated disciplines. Required courses are: Speech Communication 100 and 140 (drawn from at least two different activities), either Speech Communication 120 or 180, and at least three of the following: Speech Communication 230, 330, 335, 360, and 380.

Additional courses are selected from courses in speech communication. With the adviser's consent, five quarter hours may be drawn from: Business Administration 300 or English 260, 280, 335 or 380.

2. A **broadcasting concentration** consists of a total of 45 quarter hours, distributed between required and elective courses. Required courses are: Speech Communication 100, 110, 140.10, 140.20, 210, and 230; one from Speech communication 120, 180, or 280; one from Speech Communication 330, 335, or 360; and at least five quarter hours from Speech Communication 130, 320, and 365. Electives include: Speech Communication 170, 240, 300, 310, 340, 350, 370, 380, 390 and 410; Business Administration 310 and 430; English 260 and 335; Theatre 130, 150, 210, and 220; and Art 150.
3. A **speech education concentration** requires the following courses: Speech Communication 100, 120, 140.30, 140.40, 170, 180, 230, 330 and 360; Theatre 100, 150, 160, and 210.
4. A **broadcast journalism concentration** consists of 45 quarter hours of required and elective courses. Required courses are: Speech Communication 100, 110, 130, 140.10, 140.20, 210, 230, and 340; English 260; English 280 or 365; and at least three quarter hours of English 290 or 292. Electives include: Speech Communication 140, 170, 240, 320, 330, 350, 360, 365, 370 and 390; English 280, 335 and 340; Theatre 130.

A **major in business/organizational communication** is interdisciplinary and consists of 38 quarter hours of required courses, ten quarter hours of communication electives and 15 quarter hours of general/business electives. Required courses are: Speech Communication 280, and 380; English 100 or 260; English 335; Accounting 200; Business Administration 300; Economics 210; and Computer Science 100. Students must also earn at least ten quarter hours of credit from the following communication electives: Speech Communication 120, 180, 330, 335; English 280, 340. In addition, students must complete 15 quarter hours of credit from: Accounting 210; Business Administration 310, 320, 340, 430; Psychology 240, 320; Sociology 330.

Courses counted toward a major in business/organizational communication cannot be counted toward an additional major or minor in business administration, English, or speech communication.

A **major in public relations** is interdisciplinary and consists of 40 quarter hours of required courses and at least 10 quarter hours of elective courses. Required courses are: Speech Communication 100, 300, 310, 335, 400; Economics 210; English 260; Business Administration 310. Students must also earn at least one quarter hour of credit in Speech Communication 370 and at least three quarter hours of credit in English 290 or 292. Elective courses may be selected from: English 280, 335, 340, 360, 365; Speech Communication 330, 380; Business Administration 430; Math 230; Visual Arts 100, 120, 150. To be counted toward the public relations major, elective courses must be approved by the public relations adviser.

A **minor in speech communication** consists of Speech Communication 100 and 20 additional hours in Speech Communication courses.

A **minor in broadcasting** consists of 25 hours selected from courses in the broadcasting major. Requirements are: Speech Communication 110, 140.10, 140.20, and 210, and at least three of the following: Speech Communication 130, 140, 230, 320, 340, 350, and 410. The student should consult with a broadcast adviser in constructing the minor.

A **minor in public relations** consists of English 260, Speech Communication 100 or 280, Speech Communication 300, 310, and 400, and 5 quarter hours of public relations electives. Eligible electives are: Speech Communication 100, 330, 335, 370 and 380; Business Administration 310 and 430; English 280, 290, 292, 360 and 420; and Visual Arts 110 or 150.

A **journalism major** (interdisciplinary) is described under the Department of English.

Speech Courses (SpCo)

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. *A special section for speech communication and public relation majors is offered in the Fall. Required of all students in the teacher education program.*

110 RADIO PRODUCTION

3 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.

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.

130 RADIO/TELEVISION PERFORMANCE

3 hrs.

Study and practice in audio and video performance. Includes work in voice, nonverbal communication, scripting, hand signals and interpretation of copy. *SpCo 110 recommended.*

140 SPEECH ACTIVITIES SEMINAR

1 hr.

Individual and group instruction and participation in supervised creative activities. May be repeated for credit; not to exceed six credit hours. Required of all majors:

140.10 RADIO (WOBN FM)

140.20 TELEVISION (WOCC TV 3)

140.30 DEBATE

140.40 INDIVIDUAL EVENTS

170 ORAL INTERPRETATION

3 hrs.

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).

180 INTERPERSONAL COMMUNICATION W/S

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.

210 FUNDAMENTALS OF TELEVISION PRODUCTION

5 hrs.

Introductory course in television production theory and techniques. Emphasis on the study of the elements and processes involved in various types of television productions. Performance in roles of the television studio production team.

230 MASS MEDIA

5 hrs.

A descriptive course dealing with the present nature, influence and impact of various mass media, including newspapers, magazines, radio and television. Special emphasis is placed on the uses, functions and effects of the media, media audiences and research, effects of media messages and future directions of media technology.

240 BROADCAST MANAGEMENT PRACTICUM

1 hr.

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. *Permission of the department is required.*

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 em-

ployment 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 non-verbal communication; and principles/techniques of information transmission and persuasion.

300 PRINCIPLES OF PUBLIC RELATIONS

3 hrs.

An introduction to the field of public relations, including the nature and responsibilities of public relations, and an overview of public relations strategies, and techniques. *Open to sophomores, juniors and seniors.*

310 PUBLIC RELATIONS TECHNIQUES

3 hrs.

An application of basic public relations techniques, tools and theories. Emphasis on planning, executing and evaluation public relations messages. *Prereq: Engl 260 and SpCo 300 or permission of the instructor.*

320 ADVANCED TELEVISION PRODUCTION

5 hrs.

Advanced study of theory and practice in television production. Emphases include: aesthetics, single-camera production theory and techniques, post-production (e.g., editing, computer graphics and sound effects), and advanced studio production techniques. *Prereq: SpCo 210.*

330 ADVANCED PUBLIC SPEAKING

5 hrs.

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: SpCo 100 or permission of the instructor.*

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.

340 BROADCAST NEWS

3 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 News. *Prereq: Engl 260.*

350 BROADCAST MANAGEMENT

2 hrs.

Principles and techniques of managing radio and TV stations based on general business practices. Stations in the Columbus area form the basis of study. *Prereq: SpCo 230.*

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.

365 BROADCAST/CABLE PROGRAMMING

5 hrs.

Study and practice of major principles for radio and television programming, and cable programming strategies. Advanced focus on forces influencing standard and non-mainstream programming operations and media market analysis at the local, national, and international levels. *Prereq: SpCo 230, and SpCo 110 or 210.*

370 COMMUNICATION PRACTICUM

1 hr.

Experience gained by guided intern work in College departments, such as Speech Communication, College Relations, Student Personnel, Admission and Campus Programming. *Prereq: Permission of department and supervising administrator.*

380 COMMUNICATION IN ORGANIZATIONS

5 hrs.

The study of communication patterns and practices within organizations, with special emphasis

on communication problems and potential solutions. Includes study of leadership, motivation and consulting. *Prereq: SpCo 100 or 280. Badm 300 is recommended.*

390 SPECIAL PROJECTS IN SPEECH W/S

1-4 hrs.

Individual research problems for qualified students. May be repeated for credit; not to exceed eight credit hours. Subjects covered may include general speech, broadcasting, public relations and advertising, audio-visual and special communication topics. *Sophomore standing and permission of the instructor is required.*

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 design campaigns to solve actual and hypothetical problems in public relations. *Prereq: Engl 260 and SpCo 300.*

410 MEDIA ETHICS AND REGULATION

3 hrs.

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: SpCo 230.*

490 COMMUNICATION INTERNSHIP

1-15 hrs.

Special internships may be arranged with Columbus broadcasting stations and with other institutions, such as banks, social service agencies, advertising agencies, public relations firms, hospitals, sound studios, etc. *Permission of the department is required.*

THEATRE AND DANCE

Stefano (chairperson), Johnson, Kirk, Robbins, Romer, Shaffer, Shaw, Vaughan.

THEATRE

The Department of Theatre and Dance offers Bachelor of Fine Arts degrees in Acting, Design/Technology and (with the Music Department) Musical Theatre. The department also offers Bachelor of Arts degrees in Theatre and in Dance. Selection and admission of B.A. and B.F.A. Theatre and Musical Theatre majors is made on the basis of departmental interview, audition and portfolio review. Admission to the Dance major requires the successful completion of Dance 130, 140, 150 and 160, or satisfactory demonstration of proficiency. *With the exception of Theatre 160, 250, 280, 290, 300, 310 and 400, all Theatre courses are restricted to Theatre majors only.* Theatre 360, 410, 430, and 440 are further restricted to B.F.A. Acting majors only. Dance classes are open to non-majors, except as indicated below. Waiver of restrictions must be approved by the department chairperson.

Bachelor of Fine Arts in Acting or Design/Technology

This program is a structured sequence of training for students preparing for careers in the professional theatre. Students must successfully complete a minimum of 90 quarter hours in Theatre. Each hour after after the 100th will require the addition of one hour to the 180 total required for graduation. Two areas of emphasis are offered under the Bachelor of Fine Arts degree, Acting and Design-Technology. Students are admitted to one of the emphases on the basis of departmental interview and audition or portfolio review. All B.F.A. students are evaluated by the faculty at the end of their freshman and sophomore years. Approval of the faculty is required for continuation in the B.F.A. program. Required courses for the B.F.A. are as follows:

BFA Core Classes, required of all BFA majors: Theatre 100, 150, 160, 170, 200, 210, 220 or 240, 250, 260, 290, 320, 400 and 490.

Acting emphasis: Core Classes plus Theatre 130, 230, 270, 360, 370, 430 and 440 and Theatre electives to total 90 hours. Twelve (12) hours of Dance are also required: Dance 110, 130, 140, 150, 160, 210. Two years of applied voice classes (Music 462 or 472) in the Music Department are strongly recommended.

Design-Technology emphasis: Core Classes plus Theatre 120, 190, 220, 240, and six (6) hours from Theatre 330, 340, 350, 460 or 470, plus Theatre electives to total 90 hours. Visual Arts 110, 200, 210 or 320, and 240 are also required.

Students planning graduate study should include Theatre 280, 300 or 310, 380 and English 350 in addition to other requirements.

Bachelor of Fine Arts in Musical Theatre

This program is designed to prepare students for careers in the professional musical theatre. It is interdisciplinary and is administered jointly by the Department of Music and the Department of Theatre and Dance. Selection and admission is made on the basis of a joint interview and audition with both departments. All B.F.A. students are evaluated by the faculty at the end of their freshman and sophomore years. Approval of the faculty is required for continuation in the B.F.A. in Musical Theatre program. Students must complete 127 hours of Theatre, Music and Dance classes, as follows:

Studies in musical theatre, including voice and acting (45 hrs): Theatre 130, 150, 230, 260, 270, 430, 440; Music 420, 421; and 15 hours of applied voice, Music 462 and/or 472.

Studies in dance and movement (18 hrs): Dance 110, 210, and 14 hours of technique classes selected from Dance 130-160, 230-260, 330-360, 430-450. Students must take at least one class in each technique: ballet, modern, jazz, and tap.

Supportive courses in music and theatre (36 hrs): Music 100/101, 110/111, 130 or 473, 440, and 6 hours of ensembles, selected from Music 451, 452, 454, 455; Theatre 100, 160, 170, 200, 210 or 220 or 240, and 320.

History and theory courses selected from the following (8-10 hrs): Theatre 250, 290, 400; Dance 120, 220; Music 180/181, 190/191, 240.

Electives selected from the following (18-20 hrs): Theatre 280, 300, 310, 360, 370, 380, 410, 490; Dance 300, 320, 420, 480, or additional technique classes: Dance 330-360, 430-450; Music 200/201, 210/211, 220/221, 230, 240, 276, 280, 400, 490.

Bachelor of Arts in Theatre

This program is designed for those students whose career goals require the study of more than one discipline, or who want a program with more flexibility than the B.F.A. Students must successfully complete a minimum of 45 hours in theatre. Selection and admission of B.A. Theatre majors is made on the basis of departmental interview and audition. Required courses and suggested classes for each concentration are:

1. *BA Core Classes, required of all BA majors:* Theatre 100, 150, 200, 210, 250, 260, and 320.
2. *Management Concentration:* Core Classes, plus Theatre 280, 310 and 390. Electives in Speech, English, and Business will be selected in consultation with the student's adviser.
3. *High School Teaching Concentration:* Core Classes, plus Theatre 160, 270, 290 and 400. Students must also complete the requirements for secondary teaching certification listed in the Education section of this catalog.
4. *Performance Concentration:* Core Classes, plus Theatre 160, 170, 270, 300 or 310.
5. *Graduate School Concentration:* Core Classes, plus Theatre 160, 170, 290 and 400. Students are strongly encouraged to take Shakespeare (ENG 350) and additional literature classes in the English and Foreign Language departments.

Other concentrations are possible. Students should consult with the chairperson.

Theatre Courses (Thr)

Unless specifically indicated, all Theatre classes are restricted to majors only.

100 INTRODUCTION TO THEATRE

2 hrs. first term, 1 hr. third term

A basic introduction to all aspects of theatre, including dramatic criticism, theory, basic aesthetics, acting, directing, design and technical theatre.

110 INTRODUCTION TO TECHNICAL THEATRE

2 hrs.

Introduction to basic technical theatre processes through practical production experiences.

120 DRAFTING**3 hrs.**

Instruction and laboratory experience in the basic skills of drafting for the theatre and in the reading and interpretation of blueprints. *Open to non-majors with permission of instructor.*

130 VOICE PRODUCTION**2 hrs. first term, 1 hr. second term**

Principles and practice of the effective speaking or stage voice. Extensive practice in body reinforcement, voice production, resonance, articulation, vowel and consonant formation and placement. Essentially a laboratory course. Both terms must be completed satisfactorily for any credit to count toward graduation.

140 THEATRE PRACTICUM**1-3 hrs.**

Individual and group instruction and participation in supervised creative activities. May be repeated for credit; not to exceed 10 hours. *Permission of instructor is required.*

140.10 PERFORMING THEATRE**140.20 TECHNICAL THEATRE****150 INTRODUCTION TO ACTING****3 hrs.**

A basic introduction to the fundamentals of acting with emphasis upon the development of imagination, self-awareness, sensory exercises, improvisation and the ability to execute simple stage tasks.

160 STAGE MAKE-UP**2 hrs.**

Instruction and practical experience in the art of make-up of technique for the stage. *Open to non-majors by permission of instructor.*

170 SCRIPT ANALYSIS**2 hrs.**

A study of the traditional form and structure of comedy and drama through script analysis. Practice with performance or design of a modern scene is included.

180 SUMMER THEATRE I**1-5 hrs.**

A laboratory experience in all aspects of theatre production through involvement with the Otterbein Summer Theatre. Entrance by audition only to high school graduates, College freshmen or sophomores.

190 RENDERING**3 hrs.**

Study and execution of perspective drawing and painting for scenic and costume design using various artist's mediums and materials. *Open to Interior Decorating majors. Prereq: Thr 120, Art 110.*

200 TECHNICAL PRACTICUM 2 hrs. first term, 1 hr. second term, 2 hrs. third term

Basic instruction in supervised production processes of scenery, lighting, costumes and properties for theatre productions. All three terms must be completed satisfactorily for any credit to count.

210 STAGECRAFT**3 hrs.**

A lecture/laboratory study of the tools, materials and methods used in the construction of scenery and rigging of the theatre.

220 LIGHTING THEORY**2 hrs.**

Lecture demonstration of the basic theory of stage lighting, including basic electricity, instrumentation, control equipment and plot hanging procedure.

230 VOICE PRODUCTION II**2 hrs. first term, 1 hr. second term**

A continuation of Voice Production I with extensive practice in voice production, resonance and diction, with some additional emphasis placed upon dialects. Essentially a lab course. Both terms must be completed satisfactorily for any credit to count toward graduation. *Prereq: Thr 130.*

240 COSTUME CONSTRUCTION**2 hrs.**

A lecture/laboratory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes.

250 PRE-MODERN THEATRE AND DRAMA**5 hrs.**

A study of the historical evolution of theatre and dramatic forms, the physical theatre, staging and theatre personalities from the Classical Theatre of Greece and Rome to the beginning of the Modern Theatre. *Open to non-majors.*

260 ACTING I: FUNDAMENTALS**5 hrs.**

Class and laboratory study of the basic principles and techniques of acting, with particular emphasis on character development. Short scenes will be performed before the class. *Prereq: Thr 150, 170.*

270 ACTING II : CHARACTERIZATION**3 hrs.**

A laboratory study for advanced work in character development and basic audition processes. *Prereq: Thr 260.*

280 ARTS MANAGEMENT**3 hrs.**

Theory and practical experience in philosophy, objectives and techniques of arts management for theatre, music, visual arts and dance. *Open to non-majors. Offered alternate years.*

290 MODERN THEATRE AND DRAMA**5 hrs.**

A study of the evolution of modern theatre and drama from Ibsen and the realistic theatre to the present. Special emphasis on physical theatres and changing dramatic forms with the stress on "avant-garde" theatre. *Open to non-majors.*

300 CREATIVE DRAMATICS**4 hrs.**

A basic introduction to the processes of improvisation and creative dramatics, with particular focus on children and creativity. *Open to non-majors. Offered alternate years.*

310 CHILDREN'S THEATRE**3 hrs.**

A basic introduction to the processes of children's theatre, including script selection, analysis, elements of production, acting, directing, and design for children's theatre. *Open to non-majors. Offered alternate years.*

320 DIRECTING**5 hrs.**

A lecture-laboratory course covering the principles and techniques of the director's art. Fundamentals of staging, blocking, movement, business, tempo, script selection and analysis, casting, and rehearsal planning. Class members direct short scenes. *Prereq: Thr 260.*

330 SCENE DESIGN**3 hrs.**

Lecture-laboratory (drawing board) process of scenic design. Analysis and research to develop artistic approach to scenic communication. Designs are executed in various styles, theatrical spaces and historical periods. *Prereq: Thr 170, 190, 210, plus Visual Art 110, 200.*

340 COSTUME DESIGN**3 hrs.**

Instruction and laboratory application of the fundamentals of design, color theory, figure drawing and proportion of character analysis as they relate to the art of costume design. *Prereq: Thr 170, 190, 240.*

350 LIGHT DESIGN**3 hrs.**

Lecture-laboratory process of lighting design from aesthetic analysis to completed plot and hanging schedule. *Prereq: Thr 170, 190, 220 or permission of the Department chairperson.*

360 ACTING III: STYLES**3 hrs.**

A class and laboratory study designed to expose the student to acting styles from the classical and contemporary avant-garde theatres. *Prereq: Thr 440. Restricted to B.F.A. performance majors.*

370 ACTING IV: ACTING FOR TV-FILM**2 hrs.**

A class and laboratory study designed to expose the student to practical techniques of television and film acting. Extensive lab work is done in the video studio. *Prereq: Thr 270. Restricted to B.A. and B.F.A. performance majors or permission of Department chairperson.*

380 ADVANCED DIRECTING**3 hrs.**

Practical experience while directing Workshop Theatre productions and working on major productions as stage managers and directorial assistants. *Prereq: Thr 320.*

390 SPECIAL PROJECTS IN THEATRE**1-3 hrs.**

Supervised individual and group projects for qualified students who have completed foundation courses. May be repeated for credit; not to exceed 10 quarter hours. *Junior standing or permission of instructor required.*

390.10 ADVANCED DESIGN**390.20 ADVANCED PERFORMING THEATRE****390.30 ADVANCED TECHNICAL THEATRE****390.40 SPECIAL TOPICS****400 THEATRE CRITICISM****3 hrs.**

A study of the philosophy and criticism of theatre and drama from Aristotle through current philosophers and critics. Seminar course with research and written projects. *Open to non-majors. Offered alternate years.*

410 VOICE PRODUCTION III**2 hrs.**

A continuation of Voice Production I and II with increased emphasis on individual practice and development. *Prereq: Thr 230.*

420 MUSICAL THEATRE WORKSHOP**2 hrs.**

Techniques of performance relevant to musical theatre. Preparation of scenes from representative musicals. *Prereq: BFA Musical Theatre majors or permission of either the chairperson of the Music or Theatre Departments.*

430 ACTING STUDIO I**5 hrs.**

Intensive practical characterization and performance work in plays from the modern repertoires. *Prereq: Admission to junior level B.F.A. Acting program.*

440 ACTING STUDIO II**4 hrs.**

Intensive practical characterization and performance work in plays from the Renaissance and Shakespeare. *Prereq: Thr 430.*

450 STUDIO DESIGN**5 hrs.**

Intensive studio and practical work in the problems of design and/or the execution of scenery, costumes or lighting for the theatre production. *Prereq: Thr 330 or 340 or 350 or consent of Department chairperson. Offered alternate years.*

460 TECHNICAL PRODUCTION**2 hrs.**

Lecture-laboratory in the methodology used to operate a scene shop, costume shop, properties shop, produce production sound effects and stage management. *Prereq: Thr 110 or 200 or consent of Department chairperson. Offered alternate years.*

470 SCENE PAINTING**2 hrs.**

Studio work in overpaint techniques to include lining, paneling, drapery, foliage, ornamentation. *Prereq: Thr 190, and Art 110, 200 or consent of Department chairperson. Offered alternate years.*

480 SUMMER THEATRE II**1-5 hrs.**

An intense laboratory experience in acting or technical theatre for advanced students with the Otterbein Summer Theatre. *Entrance by audition only.*

490 THEATRE INTERNSHIP

5-15 hrs.

Required for all senior B.F.A. students (subject to departmental approval). Open to B.A. students who apply and meet departmental requirements. Off-campus internship programs provide opportunity for practical work in professional theatre. Specific requirements are on file in the departmental office.

DANCE

The Department of Theatre and Dance offers a B.A. degree in Dance and a Dance minor. Both programs offer a structured sequence of courses designed to help students achieve professional vocational goals.

Bachelor of Arts in Dance

Admission to the Dance major requires the successful completion of Dance 130, 140, 150 and 160, or satisfactory demonstration of proficiency. Students must complete a minimum of 65 quarter hours in Dance and support courses (45 hours in Dance and 20 hours in support courses). The courses required for a B.A. in Dance are as follows:

Theory and History (12 hours): Dance 120, 220, 300, 320, 420.

Technique: Non-teaching emphasis (26 hrs), teaching emphasis (20 hrs) taken

from the following: Dance 110, 200, 210, 230, 240, 250, 260, 310, 330, 340, 350, 360, 400, 430, 440 and 450.

Performance (8 hrs): Dance 480.

Assisting teaching emphasis only (6 hrs): Dance 410.

Support Courses (20 hours): Life Science 151, 152, 153; Physical Education 340.

The following courses are recommended for Dance majors: Theatre 150, 280, 350; Physical Education 160, 440; Health Education 280; Music 100, 120; Visual Arts 100, 110, 120.

Minor in Dance

The minor in Dance is a 27 hour program which requires the following courses:

Theory: Nine (9) hours required from Dance 120, 220, 300 and 320.

Technique: Four (4) hours from Dance 130, 140, 150 and 160, plus fourteen (14)

hours from: Dance 200, 220, 230, 240, 250, 320, 330, 340, 350, 390, 400, 410*, 420, 430, 450 and 480.

* Dance 410 is strongly recommended for dance minors in a teaching area. Note: Those dance minors desiring to teach dance in the schools (e.g. physical education majors, education majors) are also advised to take an Anatomy and Physiology sequence (Life Science 170 and 180, or 151, 152, and 153) in addition to the 27 hours required for the minor.

Dance Courses (Danc)

Except as indicated, Dance classes are open to non-majors.

100 MOVEMENT AWARENESS

2 hrs.

This is an integrative dance course with techniques drawn from dance, tai chi chuan, Alexander technique, and other east/west forms. Emphasis is placed on postural reorganization, improved coordination, stress release, injury prevention, and mind-body integration. Not to be counted as a major course. Repeatable for a maximum of six credits.

110 MOVEMENT IN THEATRE

2 hrs.

Introduction to the fundamentals of movement for the actor using all physical elements which are important to the creation of a character. *Theatre and Dance majors only.*

120 HISTORY AND PHILOSOPHY OF DANCE I

2 hrs.

An overview of the history and philosophy of dance through the 19th century. Attention to differing period forms and choreography will be practiced in lab sessions.

130 BALLET I

2 hrs.

Fundamentals of classical ballet technique with emphasis on analysis and proper execution.

140 JAZZ I**2 hrs.**

Basic movement techniques in concert jazz dance. Films and concert viewing included.

150 MODERN I**2 hrs.**

Basic movement techniques and improvisational experience in concert dance. Films and concert viewing included.

160 TAP I**2 hrs.**

Introduction to the fundamentals of tap dance.

200 DANCE PRACTICUM**2 hrs.**

Individualized work (generally a scheduled, structured class) in areas of dance techniques and composition, or membership in Dance Company. May be repeated for a maximum of eight credits.

210 PERIOD MOVEMENT AND STAGE COMBAT**2 hrs.**

Practice in period movement and dances, and fundamentals of stage combat technique. *Theatre and Dance majors only.*

220 HISTORY AND PHILOSOPHY OF DANCE II**2 hrs.**

Overview of the history of 20th century dance. Attention to contemporary styles and choreography (ballroom, waltz, Charleston) will be practiced in lab sessions. *Prereq: Dance 120.*

230 BALLET II**2 hrs.**

Continuation of the development of technique and ballet fundamentals at an advanced beginning level. May be repeated for a maximum of four credits. *Prereq: Dance 130 and permission of the instructor.*

240 JAZZ II**2 hrs.**

Continuation of Jazz I at an advanced beginning level. Films and concert viewing included. May be repeated for a maximum of four credits. *Prereq: Dance 140 and permission of the instructor.*

250 MODERN II**2 hrs.**

Continuation of Modern Dance I at an advanced beginning level. May be repeated for a maximum of four credits. *Prereq: Dance 150 and permission of the instructor.*

260 TAP II**2 hrs.**

Continuation of Tap I at an advanced beginning level. May be repeated for a maximum of four credits. *Prereq: Dance 160 and permission of the instructor.*

300 IMPROVISATION**2 hrs.**

Spontaneous creative dance activity to stimulate imagination and perception involving individual and group movement problem solving. *Prereq: Four hours in dance technique.*

310 LABANOTATION**2 hrs.**

Introduction to dance notation, based on the Laban system of movement and notation. *Prereq: Dance 150 or 250.*

320 CHOREOGRAPHY I**3 hrs.**

Composition elements and construction of motifs and dance studies based on music, elemental properties, and non-literal thematic materials. Emphasis is on form and structural concepts. *Prereq: Dance 300.*

330 BALLET III**2 hrs.**

Ballet technique at an intermediate level. May be repeated for a maximum of four credits. *Prereq: Dance 230 and permission of the instructor.*

340 JAZZ III**2 hrs.**

First of a two-course sequence in jazz technique at an intermediate level. Films and concert viewing included. May be repeated for a maximum of four credits. *Prereq: Dance 240 and permission of the instructor.*

350 MODERN III**2 hrs.**

First of a two-course sequence in intermediate modern dance technique. Films and concert viewing included. May be repeated for a maximum of four credits. *Prereq: Dance 250 and permission of the instructor.*

360 TAP III**2 hrs.**

Tap at an intermediate/advanced level. May be repeated for a maximum of four credits. *Prereq: Dance 260 and permission of the instructor.*

390 INDEPENDENT STUDY IN DANCE**1-8 hrs.**

Supervised small class instruction and projects for qualified students who have completed foundation courses. Individual research projects also included.

400 DANCE PRACTICUM**2 hrs.**

Individualized work in areas of technique, composition or membership in dance company. May be repeated for a maximum of eight credits.

410 ASSISTING IN DANCE**2 hrs.**

Assisting faculty instructors with warm-ups, technical development of a class, musicals, choreography, movement sequencing, and class directorship under faculty supervision. May be repeated for a maximum of six credits. *Prereq: Junior standing Dance major.*

420 CHOREOGRAPHY II**3 hrs.**

Selection of dance theme, construction of dances and small group studies. Aesthetic considerations, form and elements of performance emphasized. *Prereq: Dance 320.*

430 BALLET IV**2 hrs.**

An intermediate to advanced level of ballet technique including pointe work. May be repeated for a maximum of four credits. *Prereq: Dance 330 and permission of the instructor.*

440 JAZZ IV**2 hrs.**

An intermediate to advanced level of jazz technique. *Prereq: Dance 340 and permission of the instructor.*

450 MODERN IV**2 hrs.**

An intermediate to advanced level of modern technique. *Prereq: Dance 350 and permission of the instructor.*

480 DANCE PERFORMANCE/COMPANY**2 hrs.**

An advanced company class in the jazz/modern idiom. Outside rehearsal time to be announced. Experiences related to formal concert performance and choreography. To be a company member the student must participate for two terms of credit annually. May be repeated to fulfill the eight credit hour requirement for majors. Altogether, may be repeated for a total of 16 hours credit. *Prereq: Admission by audition only.*

VISUAL ARTS

Ansell (chairperson), Germanson, J. Stichweh, D. Stichweh.

A major in Visual Arts requires a minimum of 45 quarter hours, although art majors typically complete 65-75 hours in Department offerings. Core courses are Art 110, 115, 200,

220, 230, and 240. After completing the core, students may choose a concentration in drawing, painting, photography, visual communication, or ceramics.

Elementary education majors may gain a Visual Arts concentration by taking 110, 200, one course from 220, 230, or 240, and two Visual Arts electives.

Students seeking secondary or K-12 teaching certification in art must take the Visual Arts major and include courses in painting, ceramics, printmaking, design, and drawing.

A **minor in Visual Arts** consists of 25 hours, including Art 110, and one course from Art 220, 230, 240, or 250.

Visual Arts Courses (Art)

100 VISUAL THINKING

5 hrs.

Exploration of the role of visual information in our daily lives. Lectures, exercises and studio work to develop creative, innovative thinking as it applies to many fields.

110 DESIGN 2D

5 hrs.

Study of fundamental elements and principles of 2-dimensional art and their application to problems of visual organization. Lecture and studio projects.

115 DESIGN 3D

5 hrs.

Study of elements and principles of art as applied to 3-dimensional work. Lecture and studio projects. *Prereq.: Art 110 or permission of instructor.*

150 PHOTOGRAPHY: THE CAMERA AND THE NEGATIVE

5 hrs.

An introduction to the historical significance, basic materials and process, and aesthetic appreciation of black and white photography. Classroom and darkroom instruction. Students are encouraged to have their own 35mm camera. Cameras may be borrowed from the Instructional Media Center for a small fee.

160 PHOTOGRAPHY: THE PRINT

5 hrs.

An investigation of the process of creating expressive photographic images with an emphasis on composition, technical quality, and evaluation of photographic prints. *Prereq.: Art 150 or permission of instructor.*

170 ADVANCED PHOTOGRAPHY

3 hrs. (alt.yrs. 93-94)

Semi-independent work in selected areas of photographic exploration. Individual and group critiques with an emphasis on the expressive qualities of the photographic medium. *Prereq.: Art 150, 160 or permission of the instructor.*

200 DRAWING I

4 hrs.

An introduction to drawing, in which both spontaneity and control are developed. Emphasis on seeing and shaping visual relationships. *Prereq.: Art 110 or permission of instructor.*

210 DRAWING II

4 hrs.

Intermediate work in drawing, with an emphasis on the human figure and composition. Exploration of various drawing media. *Prereq.: Art 110, 200, or permission of instructor.*

220 ART HISTORY

5 hrs.

Survey of painting, sculpture and architecture from paleolithic times to 1000 A.D. Emphasis upon the Western tradition.

230 ART HISTORY

5 hrs.

Survey of painting, sculpture and architecture from 1000 A.D. to 1850. Emphasis upon the Western tradition.

240 ART HISTORY W/S

5 hrs.

Survey of Modern Art, European and American.

250 SURVEY OF NON-WESTERN ART**3 hrs. (alt.yrs.94-95)**

Study of selected non-Western cultures, with an emphasis on the role of art and its relationship to other aspects of life.

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

Studio and theoretical work to provide insight into the relationship of art to various aspects of elementary education. Required for K-12 certification in art. *Prereq.: InSt 130.*

310 ADVANCED DRAWING**4 hrs**

Advanced work in drawing; in-depth exploration of medium and subject of student's choice. Plan to be determined in consultation with instructor. Repeatable to a total of 8 credits. *Prereq.: Art 210 or permission of instructor.*

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 200 or permission of instructor.*

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 200 or permission of instructor.* Repeatable to a total of 15 credits.

350 VISUAL COMMUNICATION I**4 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 110, 115, 200 or permission of instructor.*

355 VISUAL COMMUNICATION II**4 hrs.**

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

360 PRINTMAKING**3 hrs. (alt.yrs. 93-94)**

Work in relief processes and serigraphy. *Prereq.: Art 110, 200 or permission of instructor.*

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 10 credits.

380 COMPUTER ART**5 hrs.**

Study of the computer as a tool in image making. *Prereq.: Art 110, 200 or permission of instructor.*

390 SPECIAL PROBLEMS W/S**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.

440 ADVANCED STUDIO PROJECTS**5 hrs.**

Advanced work in one studio area, following completion of upperlevel courses offered in the chosen area, eg. 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.

WOMEN'S STUDIES

See description for Women's Studies under Department of Sociology.

R.O.T.C.

Qualified Otterbein students can earn an officer's commission as they pursue their academic degree by simply adding Military Science courses to their class schedules. The first two years of ROTC entail no military obligation and have no prerequisites. Courses are taught at The Ohio State University with free transportation provided to Otterbein students. There are a number of variations of the basic four-year program. Interested individuals should contact John Wathen (614-898-1300) for specific information.

AIR FORCE R.O.T.C.

Aerospace Science Courses (Aero)

Air Force aerospace studies leading to a commission in the United States Air Force may be pursued on either a four-, three- or two-year basis. The academic requirements in all these programs are essentially identical. Compressed courses are offered at summer encampments to afford cadets the opportunity to obtain course material in which they are deficient. The General Military Course (first two years of enrollment, normally freshman/sophomore) deals with aerospace doctrine and history of military aviation. The Professional Officer Course (last two years of enrollment, normally juniors and seniors) deals with communicative skills, leadership and management training and national defense policy.

101 THE USAF-ORGANIZATION, TACTICAL FORCES AND STRATEGIC OFFENSIVE FORCES **1 hr.**

An introduction to the mission and organization of the US Air Force; an examination of tactical forces in the Tactical Air Command and the strategic forces in the Strategic Air Command.

102 SYSTEMS DEVELOPMENT, TRANSPORTATION COMMUNICATIONS, AND LOGISTICS IN THE USAF **1 hr.**

A study of nine major Air Force commands that provide vital support to the Air Force mission; also, an examination of the key role played by the Air Force Reserve and Air National Guard.

103 USAF-PROFESSIONALISM, DOCTRINE AND THE US/SOVIET BALANCE OF POWER **1 hr.**

Discussion of the officer as a professional; examination of USAF/DOD doctrine; study of the relationship between the Soviet Union and the US and the balance of forces.

201 INTRODUCTION TO THE DEVELOPMENT OF AIR POWER **1 hr.**

A study of the development of air power from mythology through the 1940s.

202 THE GROWTH OF AIR POWER TO PROMINENCE **1 hr.**

A study of air power during the 1950s.

203 CONCEPTS AND DOCTRINE GOVERNING THE EMPLOYMENT OF AIR POWER **1 hr.**

A study of air power and its employment during the 1960s, 1970s and 1980s.

301 MANAGEMENT AND COMMUNICATION **3 hrs.**

Development of oral and written communicative skills with videotape practicum; emphasis on types of military writing and speaking format peculiar to the Air Force; general study of management, looking particularly at development and use. *Prereq: Completion of General Military Courses or AFOTC Six-Week Summer Camp; or permission of instructor.*

302 MANAGEMENT-BEHAVIOR, DECISION MAKING AND PLANNING TECHNIQUES

3 hrs.

Management courses stressing motivational and behavioral processes in individual/group dynamics; indepth study of decision making, planning techniques, and organizational structure. *Prereq: Aero 301 or permission of instructor.*

303 LEADERSHIP AND STAFF FUNCTIONS

3 hrs.

A study of military leadership and organizational ethics; investigation of the politics and tactics in management with emphasis on organizational and personal values; introduction to officer career development and administrative and staff functions required of junior Air Force officers. *Prereq: Aero 302 or permission of instructor.*

401 NATIONAL SECURITY POLICY AND MILITARY PROFESSIONALISM

3 hrs.

An examination of the needs for national security and an analysis of the evolution of the American defense strategy and policy; actors and processes; a special topic focuses on the military as a profession. *Prereq: Aero 303 or permission of instructor.*

402 DEFENSE POLICY AND DECISION MAKING

3 hrs.

Investigation into the strategy and management of conflict, the formulation and implementation of US defense policy, and a study of US interest in regions around the world. *Prereq: Aero 401 or permission of instructor.*

403 STRATEGIC ISSUES AND PREPARATION FOR ACTIVE DUTY

3 hrs.

Investigation of current and future strategic issues; arms control; introduction to the military justice system; preparation for active duty as an Air Force officer. *Prereq: Aero 402 or permission of instructor.*

ARMY R.O.T.C.

The Basic Course Program (100-and 200-level courses) is designed to provide the student an introduction to the Army and a solid foundation in basic military knowledge. The Advanced Course Program (300-and 400-level courses) is designed to prepare the student for summer camp and a commission as a second lieutenant in the United States Army.

Military Science Courses (Army)

101 INTRODUCTION TO U.S. ARMY AND OFFICER LEADERSHIP

2 hrs.

An introduction to contemporary officer service with emphasis on role and activities of the junior leader; guest speakers and field trips with a special block on financial aid and R.O.T.C. related scholarships; optional rappelling.

102 MILITARY SURVIVAL SKILLS FOR THE SMALL UNIT LEADER

2 hrs.

An introduction to combat zone survival techniques; use of military survival kits as well as survival under varying climatic and battlefield conditions; includes a one day field trip.

103 LAND NAVIGATION AND MAP READING

2 hrs.

An introduction to basic military map reading and land navigation skills; conventional map reading skills as well as survival navigation skills for the hiker will be examined; optional one day canoe trip.

112 ANALYSIS OF CONFLICT, BASIC

2 hrs..

American military experience prior to World War II in terms of the principles of war; emphasizes Army structure and evolution of tactical doctrine. *Prereq: Permission of instructor. Open only to A.R.O.T.C. students who must meet military history professional education requirement. Requires additional fee.*

189 ARMY SPECIALTY TRAINING

Intensive specialty field training from two to three weeks in duration at an Army installation

Specialty School. *Prereq: Contract cadet standing, successful completion of the physical fitness test, medical examination, and selection by a professor of military science. Repeatable to a maximum of six credit hours in any combination of decimal subdivisions. These courses are graded P/F. Requires additional fee.*

189.01 AIRBORNE OPERATIONS

3 hrs.

Three weeks of intensive field training including the study of airborne operation, physical conditioning, and military parachute techniques, and culmination with the awarding of the Airborne Qualification Badge. Taught at Ft. Benning, Georgia.

189.02 AIRMOBILE OPERATIONS

2 hrs.

Two weeks of intensive field training including the study of heliborne operations, physical conditioning, and rappelling; culminating with the awarding of the Air Assault Badge. Taught at Ft. Campbell, Kentucky.

189.03 WINTER WARFARE OPERATIONS

3 hrs.

Three weeks of intensive field training including the study of operations under winter conditions, physical conditioning, mountaineering, and leadership in a hostile environment. Taught at Ft. Richardson, Alaska.

211 ANALYSIS OF CONFLICT

2 hrs.

American military experience from the American Revolution to the present with emphasis on the Army Order of Battle and Tactical Doctrine.

212 SMALL UNIT ACTIONS

2 hrs.

Study of selected small unit actions to define leadership in high stress environment and effects of battlefield dynamics.

213 SMALL UNIT LEADER

2 hrs.

Instruction advanced land navigation techniques, and tactics at the individual, squad, and platoon level; designed to prepare the student for the AROTC Advanced Program.

289 ARMY ROTC BASIC CAMP

6 hrs.

Six weeks of highly intensive training encompassing basic infantry soldiering and leadership skills designed to prepare the student for the Army ROTC Advanced Program. *Prereq: Successful completion of medical examination. Taught at Ft. Knox, Kentucky. This course is graded P/F. Requires additional fee.*

301 CONTEMPORARY MILITARY SUBJECTS

4 hrs.

An overview of national defense policy, military history, organization, roles, mission, and branches of the U.S. Army, basic weaponry, and land navigation; designed as an orientation to the AROTC Advanced Program. *Prereq: Basic AROTC Program or equivalent.*

302 MILITARY LEADERSHIP AND SKILLS

4 hrs.

A study of leadership to include trait theory, motivation theory, and contemporary leadership models; instruction on oral and written communication techniques, and basic military skill qualification subjects. *Prereq: 301 or permission of professor of military science.*

303 SMALL UNIT TACTICS

4 hrs.

Study of the organization, mission, characteristics, capabilities, and tactics of the infantry squad, platoon, company, and battalion; troop leading procedures, operations orders, offensive, defense, retrograde operations, and patrolling. *Prereq: Army 302 or permission of professor of military science.*

389 ARMY ROTC ADVANCED CAMP

6 hrs.

Six weeks of intensive education in basic military and leadership subjects; life in a military environment in preparation for a commission. *Prereq: Army 301, 302, 303, or permission of professor of military science. Taught at Ft. Lewis, Washington. Requires additional fee.*

401 MILITARY OPERATIONS MANAGEMENT

4 hrs.

The study of Army organizations and operations to include command/staff relationships, counseling, principles of war, laws of war, training management, and a study of managerial methods. *Prereq: Army 301 or permission of professor of military science.*

402 ADMINISTRATION OF LOGISTICS

4 hrs.

Study of logistics to include management of combat and garrison supply; equipment maintenance, property accountability, and transportation and troop movement; Army administration to include military publications, personnel actions, and the supervision of administrative requirements. *Prereq: Army 401 or permission of professor of military science.*

403 MILITARY JUSTICE AND ETHICS/PROFESSIONALISM

4 hrs.

Study of military justice, and a military service orientation to include military professionalism and ethics. *Prereq: Army 402 or written permission of professor of military science.*

NAVY R.O.T.C.

The sequence of naval science courses is the same for all officer candidate students for the first two academic years. Officer candidate students accepted into the Marine Corps Option will have curriculum variations with their third year. Additionally, some candidates may be required to complete courses in American Military Affairs, National Security Policy, mathematics, and/or the physical sciences. Descriptions of the course requirements for each candidate classification (scholarship/college programs) may be obtained from the Naval Science Department Office.

Naval science courses are open to a limited number of civilian students with permission of the Professor of Naval Science. Initial enrollment in the N.R.O.T.C. Program may be completed by scheduling Naval Science 154 during fall quarter registration. Completion of Naval Science and degree requirements may lead to a commission in the U.S. Navy or the U.S. Marine Corps.

Normal sequence of Naval Science courses is as follows:

First year:	All candidates-154, 155, 156
Second year:	All candidates-261, 262, 265
Third year:	Navy candidates-321, 322, 323 Marine candidates-351, 352, 353
Fourth year:	Navy candidates-465, 476, 477 Marine candidates-451, 452, 453

Naval Science Courses (Navy)

154 SURVEY OF NAVAL SCIENCE

3 hrs.

An introduction to and survey of disciplines peculiar to naval science including a discussion of naval tasks and missions, regulations, customs, traditions, and organizational relationships. *Prereq: Enrollment in N.R.O.T.C. Unit or permission of the instructor.*

155 NAVAL SHIP SYSTEMS

3 hrs.

Study of ship design, compartmentation, stability, buoyancy and damage control. *Prereq: Navy 154 or written permission of the instructor.*

156 NAVAL SHIP SYSTEMS ENGINEERING

3 hrs.

Study of conventional ship propulsion systems, auxiliary power systems, nuclear power and new innovations in ship propulsion. *Prereq: Navy 155 or written permission of the instructor.*

261 NAVAL WEAPONS SYSTEMS II

3 hrs.

Investigation of concept and technique of weapons systems, linear analysis of ballistics, and the dynamics of the basic components of weapons control systems. *Prereq: Navy 156 or permission of the instructor.*

262 NAVAL WEAPONS SYSTEMS III

3 hrs.

Further development of the basic principles of naval weapons. *Prereq: Navy 261 or permission of the instructor.*

- 265 SEAPOWERS AND MARITIME AFFAIRS I** 3 hrs.
An analysis of seapower and maritime affairs as related to the naval forces of the United States.
Prereq: Navy 262 or permission of the instructor.
- 321 INTRODUCTION TO NAVIGATION** 3 hrs.
A study of marine navigation, including the determination of position by dead reckoning and electronic methods, and the rule of the nautical road. *Prereq: Navy 265 or permission of the instructor.*
- 322 CELESTIAL NAVIGATION** 3 hrs.
The determination of position by celestial methods of navigation. *Prereq: Navy 321 or permission of the instructor.*
- 323 NAVAL OPERATIONS** 3 hrs.
A study of fleet operations, including tactics, the naval communications system and the principles of relative motion. *Prereq: Navy 322.*
- 351 EVOLUTION OF THE ART OF WAR, PART I** 3 hrs.
A study of evolution of weapons and tactics, illustration the principles and variables of war used in certain battles from Alexander through the Prussian influence. *Prereq: 265 or completion of summer camp.*
- 352 EVOLUTION OF THE ART OF WAR, PART II** 3 hrs.
A continuation of the study of evolution of the art of war from the age of Mahan through contemporary problems and military possibilities. *Prereq: Navy 351*
- 353 MODERN BASIC MILITARY STRATEGY AND TACTICS** 1 hr.
A survey of modern strategical and tactical principals, and current military developments.
Prereq: Navy 352.
- 451 AMPHIBIOUS WARFARE, PART I** 3 hrs.
The history of amphibious warfare and its development from the battle of Marathon through the Marshalls Campaign.
- 452 AMPHIBIOUS WARFARE, PART II** 3 hrs.
A study of the doctrinal techniques and present concepts of amphibious warfare from the Marianas Campaign through contemporary evolutions.
- 453 LEADERSHIP AND THE UNIFORM CODE OF MILITARY JUSTICE** 1 hr.
Survey of the UCMJ and a study of the psychology of human relationships and techniques of leadership as applied by Marines.
- 465 PRINCIPLES OF NAVAL ORGANIZATION AND ADMINISTRATION** 2 hrs.
Introduction to the structure and principles of naval organization and management. *Prereq: Navy 323.*
- 476 NAVAL LEADERSHIP** 2 hrs.
A seminar study of management, leadership and human relations problems and decisions which confront the junior Naval officer in today's fleet.
- 477 NAVAL LEADERSHIP** 2 hrs.
A continuation of 476 with emphasis on problem-solving techniques and solutions. *Prereq: Navy 476.*

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William E. LeMay '48, Partner, Waytek Corporation, Waynesville, Ohio
Connie Leonard '63, Coordinator, Gifted Programs, Green Local Schools, Greensburg, Ohio
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Terry L. Goodman '70, Attorney, Columbus, Ohio
Alan E. Norris '57, United States Circuit Judge, Columbus, Ohio
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Peter F. Frenzer, President, Nationwide Life Insurance Co. and CIO Nationwide Cos., Columbus, Ohio

Judith Gebhart '61, Assistant Professor, Sinclair Community College, Dayton, Ohio
John T. Huston '57, Physician, Riverside Methodist Hospitals, Columbus, Ohio
Erwin K. Kerr, District Superintendent, U.M. Church, Zelienople, Pennsylvania
Judith S. Olin '62, Director, Conference Council on Ministries, East Ohio Conference U.M.
Church, North Canton, Ohio
Paul Reiner, President, Oakland Nurseries, Columbus, Ohio
Eva Sebo, Chair, Sociology Department, Otterbein College, Westerville, Ohio
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Irvine, Irvine, California

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C. William Swank, Executive Vice President, Ohio Farm Bureau Federation, Columbus,
Ohio
Margaret L. Trent '64, Director, Division of Research and Communications, Ohio Depart-
ment of Education, Columbus, Ohio

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Schools (Retired), Cleveland, Ohio
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Companies, Columbus, Ohio
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E.N. Funkhouser Jr. '38, Special Assistant to the Dean, Harvard University Graduate School
of Business Administration, Boston, Massachusetts
Mary B. Thomas '28, Business Executive (Retired), Columbus, Ohio

Faculty and Administration

President of the College

C. Brent DeVore, 1984-
B.S.J., Ohio University, 1962
M.A., Kent State University, 1971
Ph.D., Kent State University, 1978

Barbara J. Rutherford, 1989-
Assistant to the President
B.A., Bowling Green State University, 1970

Vice Presidents of the College

Patricia Frick, 1993-
*Vice President for Academic Affairs
and Academic Dean/Professor of English*

Thomas H. Stein, 1992-
*Vice President for Admission
and Financial Aid*

Stephen R. Storck, 1988-
*Vice President for Business Affairs
and Business Manager*

Robert M. Gatti, 1978-
*Vice President for Student Affairs
and Dean of Students*

David C. Joyce, 1992-
*Vice President for Institutional
Advancement*

Department Chairpersons

Integrative Studies
Alison H. Prindle

Business, Accounting and Economics
Allen M. Prindle

Chemistry
Jerry A. Jenkins

Education
Harriet R. Fayne

English
Norman R. Chaney

Equine Science
Maria S. Calderone

Foreign Languages
Roger H. Neff

Health & Physical Education
Marilyn E. Day

History & Political Science
Elizabeth K. MacLean

Life & Earth Sciences
Michael S. Herschler

Mathematical Sciences
Thomas A. Willke

Music
Morton J. Achter

Nursing
Judy Strayer

Physics & Astronomy
Louis G. Arnold

Psychology
Robert N. Kraft

Religion & Philosophy
Paul A. Laughlin

Sociology
Eva A. Sebo

Speech Communications
John T. Ludlum

Theatre & Dance
John Stefano

Visual Arts
Joseph P. Ansell

Faculty

Kamel A.M. Abdallah, 1990-
Assistant Professor of Management
B.A., The American University of Beirut,
Lebanon, 1985
M.A., The American University,
Washington DC, 1987
Ph.D., The Ohio State University, 1992

Morton J. Achter, 1975-
Professor of Music
B.M., University of Michigan, 1961
M.M., University of Michigan, 1963
Ph.D., University of Michigan, 1972

- Patti R. Albaugh, 1989-
Assistant Professor of Education
B.A., Mt. Vernon Nazarene College, 1979
M.A., The Ohio State University, 1985
Ph.D., The Ohio State University, 1986
- Joseph P. Ansell, 1991-
Associate Professor of Visual Arts
B.A., Knox College, 1971
M.F.A., The George Washington University, 1975
- Louis G. Arnold, 1983-
Professor of Physics
B.A., Northwestern University, 1963
M.S., University of Kentucky, 1965
Ph.D., University of Kentucky, 1970
- James R. Bailey, 1967-
Professor of English
B.A., Franklin College, 1960
M.A., Duke University, 1963
Ph.D., Indiana University, 1971
- Lyle T. Barkhymer, 1967-
Professor of Music
B.A., B.M., Otterbein College, 1964
M.M., Indiana University, 1967
D.M., Indiana University, 1970
- Philip E. Barnhart, 1959-
Professor of Physics/Astronomy
B.A., Manchester College, 1952
M.A., Indiana University, 1955
Ph.D., The Ohio State University, 1974
- *Garlena A. Bauer, 1988-
Associate Professor of Sociology
B.S., The Ohio State University, 1979
M.S., The Ohio State University, 1979
Ph.D., The Ohio State University, 1981
- Ann A. Beck, 1992-
Assistant Professor of Political Science
B.A., University of Nevada, 1971
M.A., University of Nevada, 1976
Ph.D., Washington State University, 1989
- Gerald C. Brown, 1988-
Associate Professor of Business Administration/Economics
B.S., University of Illinois, 1950
M.S., University of Illinois, 1955
Ph.D., The Ohio State University, 1967
- Duane G. Buck, 1991-
Instructor of Mathematics
B.S., Lawrence Institute of Technology, 1975
M.A., Wayne State University, 1977
A.B.D., The Ohio State University
- John P. Buckles, 1983-
Assistant Professor of Speech Communications
B.S., Indiana State University, 1979
M.S., Indiana State University, 1981
- Jackie Buell, 1990-
Instructor of Health, Physical Education/Head Athletic Trainer
B.S., Marietta College, 1985
M.S., University of Arizona, 1986
- Mary A. Burnam, 1977-
Associate Professor of Nursing
B.S., The Ohio State University, 1967
M.S., The Ohio State University, 1970
- Maria S. Calderone, 1984-
Associate Professor of Equine Science
B.A., Earlham College, 1968
D.V.M., The Ohio State University, 1983
- *Sharon L. Carlson, 1979-
Associate Professor of Nursing
B.S.N., Marquette University, 1964
M.S.N., University of Missouri, 1978
- James E. Carr, 1965-
Assistant Professor of Foreign Languages
B.A., Andrews University, 1958
M.A., Kent State University, 1964
- Norman R. Chaney, 1964-66; 1970-
Professor of English
B.A., Indiana Central College, 1960
M.A., Indiana University, 1963
B.D., Yale Divinity School, 1964
M.A., University of Chicago, 1969
Ph.D., University of Chicago, 1975
- Amy D. Chivington, 1989-
Assistant Professor of Music
B.M.E., Otterbein College, 1969
M.A., The Ohio State University, 1986
Ph.D., The Ohio State University, 1990
- Betsy B. Cook, 1990-
Assistant Professor of English
B.A., Marshall University, 1979
M.A.J., Marshall University, 1981
E.D., West Virginia University, 1990

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Celinda A. Corbeil, 1991-
Instructor of Nursing
 B.S.N., The Catholic University of
 America, 1960
 M.S.N., The University of Connecticut, 1975

Barbara B. Cornett, 1983-
Associate Professor of Nursing
 B.S., University of Maryland, 1971
 M.S., The Ohio State University, 1976
 Ph.D., The Ohio State University, 1989

Larry E. Cox, 1965-
Associate Professor of Psychology
 B.A., Olivet Nazarene College, 1960
 M.A., University of Cincinnati, 1972

Gerard T. D'Arcy, 1989-
*Instructor of Health, Physical Education/
 Men's Head Soccer Coach*
 Diploma, Loughborough College, England,
 1977
 M.A., Kent State University, 1980

Beth Rigel Daugherty, 1984-
Associate Professor of English
 B.A., Mt. Union College, 1972
 M.A., Rice University, 1978
 Ph.D., Rice University, 1982

Marilyn E. Day, 1953-
*Professor of Physical Education
 Women's Athletic Director*
 B.A., Otterbein College, 1953
 M.S., University of Colorado, 1957
 Ph.D., The Ohio State University, 1968

David L. Deever, 1971-
Professor of Mathematics
 B.A., B.S., Otterbein College, 1961
 Ph.D., The Ohio State University, 1966

*Marjorie C. Demel, 1990-
Associate Professor of Spanish
 B.S., University of Nebraska, 1966
 M.A., Texas A&M University, 1979
 Ph.D., The Ohio State University, 1987

David K. Dennis, 1990-
Associate Professor of Accounting
 B.S., B.A., The Ohio State University, 1966
 M.B.A., Wright State University, 1969
 Ph.D., University of Cincinnati, 1975

*Marlene K. Deringer, 1988-
*Assistant Professor of Education
 Advising Associate, Continuing
 Studies*
 B.A., Otterbein College, 1969
 M.A., The Ohio State University, 1973

David P. DeVenney, 1983-
Associate Professor of Music
 B.M., Iowa State University, 1980
 M.M., University of Wisconsin, 1982
 D.M.A., University of Cincinnati College
 Conservatory of Music, 1989

Carol M. Engle, 1980-
Assistant Professor of Nursing
 B.S.N., Kansas University, 1962
 M.A., Ball State University, 1972

Susan M. Enyart, 1986-
Assistant Professor of Mathematics
 B.S., University of Dayton, 1981
 M.S., The Ohio State University, 1983

*Harriet R. Fayne, 1980-
Professor of Education
 B.A., Barnard College, 1969
 M.A.T., Harvard University, 1970
 Ph.D., Columbia University, 1979

Richard F. Fishbaugh, 1966-
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 Head Men's Baseball Coach/
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 B.S.Ed., Ohio University, 1956
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Carmen J. Galarce, 1987-
Assistant Professor of Foreign Languages
 State Professor Degree, Universidad de
 Chile, 1977
 M.A., The Ohio State University, 1981

Albert K. Germanson Jr., 1963-
Associate Professor of Art
 B.F.A., The Ohio State University, 1956
 M.A., The Ohio State University, 1963

James F. Gorman, 1979-
Associate Professor of English
 B.A., John Carroll University, 1973
 M.A., Ohio University, 1977
 Ph.D., Ohio University, 1983

- Michael Haberkorn, 1979-
Professor of Music
B.M., University of Illinois, 1970
M.M., University of Illinois, 1972
Professional Studies, Juilliard, 1976
M.A., Columbia University, 1977
Ed.D., Columbia University, 1979
- Roger W. Hamm, 1992-
Associate Professor of Education
B.S., Clarion University, 1974
M.Ed., Clarion University, 1980
Ph.D., Georgia State University, 1985
- Denise Y. Hatter, 1991-
Assistant Professor of Psychology
B.A., Saint Augustine's College, 1980
M.A., The Ohio State University, 1982
Ph.D., The Ohio State University, 1985
- Richard E. Heffelfinger, 1982-
Assistant Professor of Business Administration/Economics
B.A., The Ohio State University, 1971
M.B.A., University of Dayton, 1976
- Michael S. Herschler, 1964-
Professor of Life Sciences
B.S., Cornell University, 1958
M.S., The Ohio State University, 1961
Ph.D., The Ohio State University, 1964
- John R. Hinton, 1983-
Associate Professor of Mathematics
B.S., East Stroudsburg State College, 1965
M.A., The Ohio State University, 1969
Ph.D., The Ohio State University, 1980
- Michael A. Hoggarth, 1992-
Assistant Professor of Life Science
B.S., Seattle Pacific College, 1977
M.S., University of North Alabama, 1980
Ph.D., The Ohio State University, 1988
- Zhen Huang, 1991-
Assistant Professor of Mathematics
B.S., Fujian Teachers University, 1982
M.S., University of Iowa, 1987
Ph.D., University of Iowa, 1991
- Marsha M. Huber, 1986-
Assistant Professor of Accounting
B.A., Ohio University, 1981
M.B.A., Miami University, 1983
- John C. Hussey, 1988-
*Instructor of Physical Education/
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Head Football Coach*
B.A., Otterbein College, 1978
M.S., The Ohio State University, 1990
- Glenna S. Jackson, 1992-
Instructor of Religion/Philosophy
B.A., University of Dubuque, 1967
A.B.D., Marquette University
- Thomas R. James, 1980-
Professor of Mathematics
B.A., Otterbein College, 1968
M.A., Ohio University, 1971
Ph.D., Ohio University, 1974
- Diane S. Jedlicka, 1981-
Assistant Professor of Nursing
B.S., The Ohio State University, 1972
M.S., The Ohio State University, 1976
- Jerry A. Jenkins, 1972-
Professor of Chemistry
B.A., Anderson College, 1966
Ph.D., University of Pittsburgh, 1970
- Craig R. Johnson, 1980-
Associate Professor of Music
B.M., Northwestern University, 1974
M.M., Northwestern University, 1979
D.M.A., College Conservatory of Music,
University of Cincinnati, 1989
- Robert W. Johnson, 1987-
Assistant Professor of Theatre
B.A., Bowling Green State University,
1977
M.A., West Virginia University, 1982
M.F.A., The Ohio State University, 1985
- David C. Jones, 1983-
Assistant Professor of Business Administration/Economics
B.A., Heidelberg College, 1962
M.A., The Ohio State University, 1978
Ph.D., The Ohio State University, 1982
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B.A., Lane College, 1961
M.Ed., Ohio University, 1970
Ph.D., Ohio University, 1980

- Claire M. Kilian, 1991-
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and Economics*
B.A., University of Wisconsin, 1981
A.B.D., The Ohio State University
- Christina M. Kirk, 1992-
Assistant Professor of Theatre/Dance
B.F.A., University of Illinois, 1985
M.F.A., Columbia University, 1991
- Paula J. Knight, 1992-
Assistant Professor of Education
B.A., University of Evansville, 1969
M.A., University of Evansville, 1973
Ph.D., The Ohio State University, 1990
- Robert N. Kraft, 1988-
Associate Professor of Psychology
B.A., Grinnell College, 1975
Ph.D., University of Minnesota, 1980
- *James R. Larson, 1988-
Associate Professor of Education
B.S.Ed., Wittenberg University, 1961
M.A., University of Toledo, 1964
Ph.D., University of Toledo, 1972
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B.A., University of Cincinnati, 1968
M.Div., Emory University, 1971
Ph.D., Emory University, 1975
- Cynthia A. Laurie, 1992-
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- Simon K. Lawrance, 1991-
Assistant professor of Life Science
B.A., Earlham College, 1975
M.Phil., M.S., Yale University, 1984
Ph.D., Yale University, 1986
- J. Patrick Lewis, 1974-
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M.A., Indiana University, 1965
Ph.D., The Ohio State University, 1974
- John T. Ludlum, 1980-
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B.A., Capital University, 1972
M.A., Miami University, 1974
- Elizabeth K. MacLean, 1986-
*Associate Professor of
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B.A., Connecticut College for Women,
1964
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Ph.D., University of Maryland, 1986
- Shirine L. Mafi, 1986-
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B.B.A., Marshall University, 1977
M.B.A., Marshall University, 1978
- Allan J. Martin, 1966-
Assistant Professor of English
B.A., Alma College, 1960
M.A., Michigan State University, 1962
Ph.D., Case Western University, 1969
- James L. Martin, 1991-
Associate Professor of Foreign Languages
B.A., University of California, 1970
M.A., University of California, 1972
Ph.D., University of California, 1981
- Patricia F. McCarthy, 1989-
Assistant Professor of Nursing
B.S.N., Boston College, 1973
M.S.N., University of Pennsylvania, 1977
- Mary D. McKelvey, 1984-
Assistant Professor of Nursing
B.S.N., Tuskegee Institute, 1971
M.S., The Ohio State University, 1974
- David A. McLaughlin, 1989-
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Assistant Football and Head
Golf Coach*
B.A., Mt. Union College, 1983
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- Eda L. Mikolaj, 1990-
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B.S.N., St. John College, 1957
M.S., The Ohio State University, 1962
Ph.D., The Ohio State University, 1983
- *Susan P. Millsap, 1987-
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Communication*
B.A., West Chester State University, 1980
M.A., University of Tennessee, 1982

Roger H. Neff, 1961-

Professor of Foreign Languages

B.A., The Ohio State University, 1956

M.A., The Ohio State University, 1960

Ph.D., The Ohio State University, 1973

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B.S.Ed., Baldwin-Wallace College, 1961

M.A., The Ohio State University, 1976

Ph.D., The Ohio State University, 1981

Robert D. Place, 1967-

Professor of Chemistry

B.A., Albion College, 1963

Ph.D., University of California, Berkeley, 1967

Alison H. Prindle, 1971-

Professor of English

B.A., Radcliffe College, 1964

Ph.D., Cornell University, 1977

Allen M. Prindle, pt. 1987, ft. 1989-

*Associate Professor of Business,
Accounting and Economics*

B.S., University of Wisconsin, 1970

M.S., Purdue University, 1972

Ph.D., Pennsylvania State University, 1977

Joan M. Pryor-McCann, 1991-

Assistant Professor of Nursing

B.S.N., University of Pittsburgh, 1976

M.N., University of Pittsburgh, 1978

M.A., The Ohio State University, 1985

Christina L. Reynolds, 1990-

*Associate Professor of Speech
Communications*

B.S.C., Ohio University, 1979

M.A., University of New Mexico, 1981

Ph.D., University of Minnesota, 1986

*Richard E. Reynolds, 1972-

Associate Professor of Physical Education

*Head Men's Basketball Coach/
Men's Athletic Director*

B.S.Ed., Otterbein College, 1965

Ed.M., Xavier University, 1971

Susan B. Richardson, 1977-

Associate Professor of Foreign Languages

A.B., University of Rochester, 1958

M.A., University of California, 1960

TESOL Certificate, University of

Michigan, 1961

Ph.D., The Ohio State University, in
progress

Wayne R. Rittenhouse, 1982-

Associate Professor of English

B.A., Wilmington College, 1975

M.A., New York University, 1980

Ph.D., The Ohio State University, 1988

Cathryn A. Robbins, 1986-

Associate Professor of Theatre

B.A., San Jose State University, 1972

M.F.A., Humboldt State University, 1980

Karen S. Robinson, 1988-

Associate Professor of Education

B.A., University of Montevallo, 1969

M.A., University of Alabama, 1971

Ph.D., Vanderbilt University, 1975

Eleanor M. Roman, 1973-

Associate Professor of Human Ecology

B.S., Seton Hill College, 1952

M.S., Pennsylvania State University, 1954

Dennis M. Romer, 1988-

Assistant Professor of Theatre

B.A., Otterbein College, 1971

M.F.A., Wayne State University, 1974

Louis H. Rose, 1991-

Assistant Professor of History

B.A., Clark University

M.A., Clark University, 1976

Ph.D., Princeton, 1986

*Patricia M. Ryan, 1988-

Associate Professor of Education,

Coordinator of Graduate Programs

A.B., Ohio Dominican College, 1967

M.A., The Ohio State University, 1980

Ph.D., The Ohio State University, 1986

Karyl E. Sabbath, 1989-

Assistant Professor of Speech

Communications

B.A., Bowling Green State University, 1979

M.A., Northern Arizona University, 1982

Ph.D., Ohio University, 1988

*Barbara A. Schaffner, 1985-

Associate Professor of Nursing

B.S.N., University of Cincinnati, 1977

M.S.N., Indiana University, 1981

Ph.D., The Ohio State University, 1992

Eva A. Sebo, 1975-80, 1986-

Associate Professor of Sociology

B.S., Columbia University, 1963

M.A., Columbia University, 1964

Ed.D., Columbia University, 1975

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Robert J. Shaffer, 1990-
Assistant Professor of Theatre
B.S., MacMurray College, 1974
M.F.A., University of Illinois, 1990

Sharllynn Shaw, 1990-
Assistant Professor of Theatre/Dance
A.A., Miami-Dade Community College, 1972
B.A., University of Southern Florida, 1975
M.F.A., University of Utah, 1980

*Jeremy H. Smith, 1988-
Associate Professor of English
B.A., Indiana University, 1976
M.A., Indiana University, 1979
Ph.D., Indiana University, 1985

Suzanne P. Stanek, 1984-
Assistant Professor of Nursing
B.S.N., Arizona State University, 1973
M.S., The Ohio State University, 1979

Mitchell Staude, 1982-
Associate Professor of Philosophy
B.A., University of Maryland, 1970
M.A., University of Maryland, 1974
Ph.D., University of Maryland, 1976

John Stefano, 1992-
Professor of Theatre/Dance
B.A., Pomona College, 1969
M.F.A., University of California, 1971
Ph.D., University of California, 1981

Joanne M. Stichweh, pt. 1979, ft. 1987-
Assistant Professor of Visual Arts
B.A., Otterbein College, 1967
M.F.A., The Ohio State University, 1976

Judy Strayer, 1978-
Professor of Nursing
B.S., The Ohio State University, 1960
B.S., The Ohio State University, 1967
M.S., The Ohio State University, 1970
Ph.D.Ed., The Ohio State University, 1979

Elizabeth C. Stull, pt. 1987, ft. 1988-
Associate Professor of Education
B.S., State University of New York, 1959
M.S., State University of New York, 1967
Ph.D., The Ohio State University, 1975

Nancy L. Sutton, pt. 1983, ft. 1987-
Instructor of Equine Science
B.A., The Ohio State University, 1981
M.S., The Ohio State University, 1988

Thomas R. Tegenkamp, 1962-
Associate Professor of Life Science
B.S., The Ohio State University, 1952
M.S., The Ohio State University, 1954
Ph.D., The Ohio State University, 1961

Randall K. Thomas, 1981-
Assistant Professor of Psychology
B.A., Cleveland State University, 1976
Ph.D., The Ohio State University in progress

Gary R. Tirey, 1968-
Associate Professor of Music
B.M.E., Capital University, 1964
M.M.E., VanderCook College of Music, 1969

Zengxiang Tong, 1991-
*Assistant Professor of Mathematics/
Computer Science*
B.S., Nanking University, 1966
M.S., Sichuan University, 1982
Ph.D., University of Delaware, 1991

Roger J. Tremaine, 1964-
Assistant Professor of Mathematics
B.S.Ed., Kent State University, 1961
M.A., Arizona State University, 1964

Robert E. Trout, 1990-
Assistant Professor of Mathematics
B.S., North Texas State University, 1982
M.S., Northwestern University, 1984
Ph.D., Northwestern University, 1991

JoAnn L. Tyler, 1962-
Professor of Physical Education
B.S., Mississippi State College for Women,
1956
M.A., The Ohio State University, 1962
Ph.D., The Ohio State University, 1972

*William E. Vaughan, 1982-
Associate Professor of Theatre
B.S.Ed., Otterbein College, 1971
M.A., University of Connecticut, 1974

Marjorie A. Vogt, 1990-
Instructor of Nursing
B.S.N., Carlow College, 1977
M.S., The Ohio State University, 1990

Terry D. Wallenbrock, 1983-
*Assistant Professor of Business,
Accounting and Economics*
B.S., Indiana State University, 1965
M.S., Indiana State University, 1967
M.B.A., University of Michigan, 1982

Teri Walter, 1985-
Assistant Professor of Physical Education
B.S., Miami University, 1983
M.A., Miami University, 1985

Thomas A. Willke, 1987-
Professor of Mathematics
A.B., Xavier University, 1954
M.S., The Ohio State University, 1956
Ph.D., The Ohio State University, 1960

Patricia S. Wilson, 1992-
*Instructor of Physical Education/
Head Volleyball Coach*
B.A., Muskingum College, 1984
M.S., Ohio University, 1988

Nancy P. Woodson, 1986-
Associate Professor of English
B.A., University of Michigan, 1957
M.Ed., North Adams State College, 1962
Ph.D., The Ohio State University, 1985

Chihae Yang, 1993-
Assistant Professor of Chemistry
B.S., Seoul National University, 1977
M.S., The Ohio State University, 1980
Ph.D., The Ohio State University, 1984

Richard P. Yantis, 1976-
Professor of Mathematics
B.S., U.S. Naval Academy, 1954
M.A., University of North Carolina, 1962
Ph.D., The Ohio State University, 1966

Richard J. Yntema, 1992-
Assistant Professor of History
B.A., Calvin College, 1979
M.A., University of Chicago, 1980
Ph.D., University of Chicago, 1992

*Charles E. Zimmerman, 1991-
Associate Professor of Religion/Philosophy
B.A., Emory University, 1968
M.Div., Emory University, 1971
Ph.D., Emory University, 1984

Matthew B. Zisk, 1992-
Assistant Professor of Chemistry
B.A., Boston University, 1985
Ph.D., Stanford University, 1991

Faculty and

Administrators Emeriti

Paul H. Ackert, 1954-1978
Professor of Religion and Philosophy
B.A., Albright College, 1941

B.S., United Theological Seminary, 1944
M.Ed., University of Pittsburgh, 1950
Ph.D., University of Pittsburgh, 1957

Chester L. Addington, 1961-1988
Professor of Education
B.S., Ball State Teachers College, 1952
M.A., Ball State Teachers College, 1954
Ed.D., Indiana University, 1961

Evelyn E. Bale, 1942-49, 1961-73, 1976-77
Administrative Assistant in Development
A.B., Otterbein College, 1930

*Donald C. Bulthaupt, 1963-1993
Professor of Physics
B.S., Indiana Central College, 1952
M.S., Michigan State University, 1962
Ph.D., The Ohio State University, 1972

Helen M. Clymer, 1953-1978
Principal of the Laboratory School
B.A., Otterbein College, 1938
M.A., The Ohio State University, 1966

Keith D. Crane, 1947-1972
Associate Professor of Chemistry
B.S., Michigan State University, 1930
M.S., Michigan State University, 1936

Rodger F. Deibel, 1965-1989
Professor of Education
B.S. Ed., Muskingum College, 1950
M.A., Western Reserve University, 1953
Ph.D., The Ohio State University, 1971

Charles W. Dodrill, 1958-1991
Professor of Theatre
B.A., Glenville State College, 1954
M.A., University of Kansas, 1956
Ph.D., The Ohio State University, 1965

Lillian S. Frank, 1943-1972
Associate Professor of Art
B.A., Oberlin College, 1929
M.A., Oberlin College, 1942

James A. Grissinger, 1950-1987
Professor of Speech
B.A., The Ohio State University, 1947
M.A., The Ohio State University, 1949
Ph.D., The Ohio State University, 1957

Earl C. Hassenpflug, 1955-1991
Associate Professor of Art
B.A., The Ohio State University, 1949
M.A., The Ohio State University, 1963

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Albert V. Horn, 1952-1990
Treasurer
B.A., Otterbein College, 1949

Joyce E. Karsko, 1965-1991
Professor of Psychology
B.A., Western Michigan University, 1959
M.A., The Ohio State University, 1960
Ph.D., The Ohio State University, 1979

Michael Kish, 1958-1986
Director of Admission
B.S.Ed., Bowling Green State University,
1943
M.S., Indiana University, 1950

Young W. Koo, 1963-1992
*Professor of Economics/Business
Administration*
B.B.A., University of Georgia, 1958
M.S., University of Alabama, 1960
Ph.D., The Ohio State University, 1963

John H. Laubach, 1958-1992
Professor of Political Science
B.A., Pennsylvania State University, 1953
Ph.D., Harvard University, 1958

Arnold D. Leonard, 1964-1989
Associate Professor of Earth Science
B.S., Penn State University, 1948
M.S., Penn State University, 1953
Ph.D., West Virginia University, 1969

Paulette R. Loop, 1964-1987
Assistant Professor of Foreign Languages
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M.A., The Ohio State University, 1967

Albert E. Lovejoy, 1957-1988
Professor of Sociology
B.A., University of North Carolina, 1947
M.A., University of North Carolina, 1949
Ph.D., University of North Carolina, 1957

Woodrow R. Macke, 1965-1988
*Vice President for Business Affairs
and Business Manager*
B.A.Sci., University of Toronto, 1947

Alberta E. Messmer, 1955-1988
Assistant Professor, Director of Library
B.A., Otterbein College, 1940
B.S.L.S., Western Reserve University, 1941

*P. Rexford Ogle, 1964-1993
Professor of Chemistry
B.S., Capital University, 1950

M.S., The Ohio State University, 1952
Ph.D., Michigan State University, 1955

George J. Phinney, 1962-1992
Professor of Life Science
B.S., The Ohio State University, 1953
M.S., The Ohio State University, 1956
Ph.D., The Ohio State University, 1967

James B. Recob, 1959-1992
Professor of Religion/Philosophy
B.A., Otterbein College, 1950
M.Div., United Theological Seminary, 1953
Th.D., Boston University, 1971

Roy F. Reeves, 1981-1991
Professor of Mathematical Sciences
*John W. Patton Professor of
Computer Science*
B.S., University of Colorado, 1947
Ph.D., Iowa State University, 1951

*Marilyn B. Saveson, 1983-1993
Professor of English
Ph.B., University of Chicago, 1946
M.A., University of Chicago, 1949
Ph.D., University of Cambridge, England,
1956

Jean K. Spero, 1978-1991
Assistant Professor of Human Ecology
B.S., The Ohio State University, 1971
M.S., The Ohio State University, 1974

Mildred L. Stauffer, 1964-1987
Professor of Education
B.E., San Jose State College, 1955
M.A., San Jose State College, 1957
Ph.D., The Ohio State University, 1973

*Fred J. Thayer, 1960-1993
Professor of Theatre
B.S.Ed., Bowling Green State
University, 1951
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Phyllis Tillett, 1969-1990
Assistant to the President

Chester R. Turner, 1966-1984
Director of Church Relations
B.A., Otterbein College, 1943
B.D., United Seminary, 1949
M.Div., United Theological Seminary, 1949

Sylvia P. Vance, 1961-1991

Professor of French

B.A., Otterbein College, 1947

M.A., The Ohio State University, 1948

Ph.D., The Ohio State University, 1980

Joanne F. VanSant, 1948-1993

Vice President for Student Personnel and

Dean of Students Emerita

B.A., Denison University, 1946

M.A., The Ohio State University, 1953

Mary Cay Wells, 1979-1992

Professor of Education

B.A., Otterbein College, 1947

M.A., Bowling Green State University, 1949

Ph.D., The Ohio State University, 1979

Eleanor J. Willis, 1955-1991

Professor of Life Science

B.S., Ohio University, 1949

M.S., Ohio University, 1950

Ph.D., University of Illinois, 1954

Elmer W. Yoest, 1956-1992

Professor of Physical Education

B.S.Ed., Otterbein College, 1953

M.A., The Ohio State University, 1962

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Franklin M. Young, 1963-1971

Assistant Professor of Education

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M.A., The Ohio State University, 1931

Adjunct Faculty

Jon Devlin, B.A., 1988-

Department of Theatre and Dance

Peter S. Wilson, 1992-

Director of Westerville Civic Symphony

Department of Music

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Columbus and Franklin County

Metropolitan Parks

Department of Life Science

John E. Stoughton, D.V.M., 1971-

Department of Life Science

Leon I. Twarog, Ph.D., 1987-

Department of Foreign Language

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Director of Television Production

B.S., Ferris State University, 1987

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Laboratory Supervisor Department of
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B.S., B.A., Otterbein College, 1961

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Richard A. Fail, 1986-

Athletic Trainer

B.S., Kent State University, 1984

Marcia L. Hain, 1989-

Costume Shop Supervisor

B.S., The Ohio State University, 1977

Joseph Mas, 1991-

Riding Instructor, Equine Science

B.S., Rollins College, 1976

J.D., Capital University, 1979

Connie S. Richardson, 1991-

Head Women's Basketball Coach/

Cross Country Coach

B.A., Heidelberg College, 1986

M.S., The Ohio State University, 1989

Joan E. Rocks, 1992-

Assistant Athletic Trainer/Clinical

Instructor of Physical Education

B.A., Marietta College, 1986

M.S., Canisius College, 1987

Karen Sanchez, 1990-

Stable Manager, Equine Science

B.S., The Ohio State University, 1990

Douglas W. Welsh, 1991-

Assistant Football/Head Track Coach

Physical Education

B.A., Muskingum College, 1968

M.A., Ball State University, 1991

Tod Wilson, 1988-

Managing Director-Theatre

B.F.A., Otterbein College, 1986

M.F.A., University of Akron, 1988

Office of Academic Affairs

Patricia Frick, 1993-

Vice President for Academic Affairs and

Academic Dean/Professor of English

B.A., University of Rochester, 1973

M.A., University of Toronto, 1974

Ph.D., University of Toronto, 1979

Eric C. Lewandowski, 1991-
Director of Grants and Special Projects
B.A., John Carroll University, 1976
M.A., The Ohio State University, 1980

John F. Schar, 1990-
Director of Academic Computing
B.S., The Ohio State University, 1970
M.S., The Ohio State University, 1983

Daniel C. Thompson, 1978-
*Associate Dean of Academic Affairs/
Director of Institutional Research*
B.A., Otterbein College, 1978
M.B.A., Capital University, 1992

Registrar

Betty Bailey, 1953-
Assistant to the Registrar
B.S.Ed., Otterbein College, 1953

Sharon Buxton, 1980-
Assistant to the Registrar
B.A., Ohio University, 1971

Donald W. Foster, 1992-
Registrar
B.A., Otterbein College, 1973

Cheryl Gloege, 1991-
*Transfer Evaluation Assistant/
Transcript Manager*
B.S., Ohio University, 1974

Janet F. Robinson, 1987-
Coordinator of Transcript Evaluation
B.A., Otterbein College, 1986

Office of Continuing Studies

John L. Kengla, 1986-
*Director of Continuing Studies/
Assistant Professor of English*
B.S.Ed., Indiana University of
Pennsylvania, 1967
M.A., Indiana University of Pennsylvania,
1972

Ann R. Rottersman, 1992-
Assistant Director of Continuing Studies
B.A., University of Kentucky, 1980
M.A., The Ohio State University, 1988

Instructional Media Center

Willie Franklin, 1983-
Audio-Visual Technician
Diploma, Ohio Institute of Technology,
1983

Michael S. Seemueller, 1976-
Assistant to the Director of TV Production
A.E.E.T., Ohio Institute of Technology, 1975

David Stichweh, 1979-
Director of Instructional Media Center
B.A., Otterbein College, 1967
M.Div., United Theological Seminary, 1970

Library

Mary Ellen Armentrout, 1987-
Periodicals Librarian, Assistant Professor
B.A., Otterbein College, 1966
M.S.L.S., Indiana University, 1982

Melinda A. Gilpin, 1991-
Archivist Librarian
B.A., Bowling Green State University, 1991

Trudy M. Kempf, 1992
Circulation Supervisor
B.A., Walsh College, 1988

Doris S. Rogers, 1987-
Acquisitions Librarian, Instructor
B.S.Ed., Ohio Northern University, 1969
M.L.S., University of Michigan, 1987

*Patricia E. Rothermich, 1983-
*Reference/Bibliographic Instruction
Librarian and Assistant Professor*
B.A., Ohio Dominican College, 1964
M.L.S., Kent State University, 1988

Elizabeth A. Salt, 1983-
Catalogue Librarian, Assistant Professor
B.A., Western College, 1974
M.A., The Ohio State University, 1975
M.L.S., Indiana University, 1979

Lois F. Szudy, 1990-
Director of Library, Assistant Professor
B.A., Miami University, 1975
M.L.P., Indiana University, 1976

Patricia A. White, 1991-
Government Publications, Instructor
B.A., Glenville State College, 1983
M.L.S., Kent State University, 1991

Learning Assistance Center

Ellen E. Kasulis, 1991-
Director of Learning Assistance Center
B.A., Albertus Magnus College, 1970
M.L.S., Southern Connecticut State
University, 1974

Office of Student Affairs

Margarette M. Barkhimer, 1986-
*Director of Career Planning and
Placement*

B.A., Otterbein College, 1980

Monty Bradley, 1982-
Chaplain, Director of Religious Activities
B.A., Malone College, 1975
M.A., Kent State University, 1977
M.Div., Methodist Theological School of
Ohio, 1980

Janet Clevenger, 1992-
Hall Director/Housing Coordinator
B.S., Bowling Green State University, 1990
M.A., The Ohio State University, 1992

Kelly Eikleberry, 1991-
Hall Director/Greek Adviser
B.A., Otterbein College, 1989

Robert M. Gatti, 1978-
Vice President for Student Affairs
B.A., University of South Carolina, 1976
M.A., Indiana University, 1978

Tracey Hickerson, 1993-
Campus Programming Board Adviser
B.A., Otterbein College, 1992

Larry Hunter, 1992-
Director of Safety and Security
B.S., Park College, 1988

Joyce Jadwin, 1989-
Acting Coordinator of Residence Life
B.A., Otterbein College, 1989
M.A., The Ohio State University, 1991

Ramona Porter, 1989-
*Assistant Director of Career Planning
and Placement*
B. A., Ohio Northern University, 1983
M.A., Bowling Green State University, 1987

Rebecca F. Smith, 1981-
*Associate Dean for Student Development/
Orientation Coordinator*
B.A., Otterbein College, 1981
M.A., Bowling Green State University,
1984

Office of Admission and Financial Aid

Stacey Bergmann, 1989-
Assistant Director of Admission
B.A., Otterbein College, 1990

Philip F. Bovenizer, 1980-
Associate Director of Financial Aid
B.M.E., Otterbein College, 1979

Sandra Burel, 1992-
Admission Counselor
B. Ed., University of Toledo, 1989

Mary Kay Freshour,
Financial Aid Counselor
B.A., Otterbein College, in progress

Catherine M. Johnson, 1980-
Director of Admission
B.S.E., Northern Illinois University, 1975
M.A., Northwestern University, 1979

Lavona See, 1991-
Assistant Director of Admission
B.S. The Ohio State University, 1987
M.A. The Ohio State University, 1991

Thomas H. Stein, 1992-
*Vice President for Admission and
Financial Aid*
B.A., Ohio Northern University, 1978
M.S., University of Dayton, 1980

M. Jeanne Talley, 1986-
*Associate Director of Admission/Director
of Minority Enrollment*
B.A., The Ohio State University, 1979
M.A., The Ohio State University, 1981

Charles L. Vedder, 1987-
Director, Foreign Student Programs
B.S., The Ohio State University, 1969
M.A., The Ohio State University, 1971

Brad Wheeler, 1992-
Admission Counselor
B.A., The Ohio State University, 1990
M.S., St. Francis College, 1992

Thomas V. Yarnell, 1986-
Director of Financial Aid
B.A., Marietta College, 1976

Office of Business Affairs

Judith C. Ralph, 1989-
Manager, Student Accounts
B.S., The Ohio State University, in progress

Steven H. Rosenberger, 1988-
Assistant Controller
B.S., Miami University, 1976

Lynne L. Schneider, 1984-
Controller
A.B., Goucher College, 1968
C.P.A., 1979

Stephen R. Storck, 1988-
*Vice President for Business Affairs
and Business Manager*
B.S., Kings College, 1976
M.B.A., York College, 1989
C.P.A., 1983

Administrative Computing

Don Grate, 1986-
Programmer
B.S., Otterbein College, 1986

John P. McClintock, 1989-
Programmer/Analyst
B.A., Otterbein College, 1988

Carol Taylor, 1983-
Programmer/Analyst
B.A., Otterbein College, 1966

Roger Wiley, 1955-
Director of Data Processing
B.S., Otterbein College, 1952
M.S., The Ohio State University, 1959

Service Department

David Bell, 1974-
Superintendent of Utilities
B.A., Otterbein College, 1974

Mark Ewing, 1986-
Maintenance Superintendent
B.A., Nazarene Bible College, 1980

John A. Wathen, 1980-
Director of Physical Plant
B.A., Bethany College, 1966
M.B.A., Central Michigan University, 1977

Office of Institutional Advancement

David C. Joyce, 1992-
*Vice President for Institutional
Advancement*
B.A., Pfeiffer College, 1975
M.Div., Yale University, 1978
M.S., North Carolina State University, 1988
Ed. D., Vanderbilt University, in progress

Joanne F. VanSant, 1948-
*Special Consultant for
Institutional Advancement*
B.A., Denison University, 1946
M.A., The Ohio State University, 1953

Office of Development

Jodie K. Barnes, 1989-
Director of Annual Funds
B.S., The Ohio State University, 1981

Michael W. Christian, 1985-
*Director of Church Relations and
Scholarship Officer*
B.A., Otterbein College, 1961
M.Div., United Theological Seminary,
1966

Antoinette Hale, 1988-
Director of Research and Records
B.A., Ohio Dominican College, 1973

E. Gregory Johnson, 1990-
Director of Alumni Relations
B.S., Campbellsville College, 1971

Jack Pietila, 1983-
Director of Development
B.S.Ed., Otterbein College, 1962
M.S., University of North Dakota, 1967

College Relations

Patti Kennedy, 1990-
Staff Writer
B.S., Bowling Green State University, 1987

Patricia Kessler, 1985-
Director of College Relations
B.A., Pennsylvania State University, 1960
M.A., The Ohio State University, 1981

Edward P. Syguda, 1984-
*Assistant Director of College Relations/
Sports Information Director/Photographer*
B.A., The Ohio State University, 1978

Tuesday A. Trippier, 1991-
Coordinator of Publications
B.A., Otterbein College, 1989

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