Ball State University

GRADUATE CATALOG
2011-2012

BALL STATE UNIVERSITY BULLETIN

Ball State University provides equal opportunity in employment and in its education programs, activities, and facilities without regard to race, religion, color, sex sexual orientation, disability, national origin, ancestry, or age. It also takes affirmative action to employ and advance minorities, women, Vietnam-era veterans, disabled veterans, and other disabled persons. For further information, please consult our Web site at www.bsu.edu/legal/equal or contact the Office of University Compliance, Ball State University, Muncie, IN 47306; Phone: (765) 285-5162; TTY: (765) 285-2639.

The information presented here, correct at the time of publication, is subject to change.

STATEMENT OF STUDENT RESPONSIBILITY

Ball State University reserves the right to alter programs and requirements for graduation with any degree. An alteration of a curricular or graduation requirement is not made retroactive unless the alteration is to the student’s advantage and the student desires it. Exceptions may be necessary when changes in professional certification or licensure standards require changes in academic requirements or in university programs. The responsibility for knowing degree requirements rests with the student. It is also the student’s responsibility to know the university regulations for the standard of work required to continue in the Graduate School. Graduate School personnel will aid in every possible way, but the responsibility for an error in the interpretation of the rules rests with the student.
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ABOUT THE UNIVERSITY

VISION
Ball State University will be a national model of excellence for challenging, learner-centered academic communities that advance knowledge and improve economic vitality and quality of life. (*Ball State University Strategic Plan Task Force Report 2007–2012*)

MISSION
Ball State University is an innovative, supportive academic community that inspires students by:

- Offering action-oriented learning including immersive out-of-class experiences, research, and study-abroad
- Providing extraordinary access to and collaboration with professors who create scholarship to advance knowledge, improve teaching, and transform learning
- Engaging state, national, and international communities to enhance educational, economic, and cultural development. (*Ball State University Strategic Plan Task Force Report 2007–2012*)

HISTORY
Ball State University was founded as Indiana State Normal School, Eastern Division, in 1918. Its antecedents, all housed in what is now the Ball State Administration Building, were also normal schools, owned and operated under various names. In 1918, the Ball brothers, a prominent Muncie industrial family, bought the property and donated it to the state of Indiana, which, in turn, transferred control of the school to the board of trustees of the Indiana State Normal School in Terre Haute. In 1922, in recognition of the generosity of the Ball brothers, the board added Ball Teachers College to the school’s name. In 1929, the Indiana General Assembly separated the two colleges, naming the campus in Muncie Ball State Teachers College.

On February 8, 1965, the general assembly renamed the institution Ball State University in recognition of its phenomenal growth in enrollment and physical facilities; of the variety and quality of its educational programs and services; and in anticipation of the much broader role it would be expected to assume in the future.

DESCRIPTION
Ball State University is a comprehensive, publicly assisted institution of higher education that provides relevant immersive learning experiences, engaging high-caliber students in intense interdisciplinary projects both in and out of the classroom. It is located in Muncie, Indiana, a city of nearly 70,000, 56 miles northeast of Indianapolis. Although its primary concern is for the citizens of Indiana, it offers programs with appeal to regional, national, and international audiences.

Ball State University offers a strong undergraduate liberal and professional education and selected graduate programs of high quality. Ball State students can choose from a comprehensive range of academic programs at the associate, baccalaureate, and master’s levels, as well as doctoral programs in areas where the university has special competence. In addition to core academic programs in the arts, sciences, and humanities, the university offers more than 240 undergraduate major and minor areas of study and 11 pre-professional programs through its eight colleges: Applied Sciences and Technology; Architecture and Planning; Miller College of Business; Communication, Information, and Media; Fine Arts; Honors; Sciences and Humanities; and Teachers College.

The university has a selective admission policy; in some areas, such as architecture, the university is very selective. Exceptionally well-qualified undergraduate students may enroll in the Honors College for more
intellectually demanding programs of study. Undergraduate students who have not decided on a major or who may need to strengthen their learning skills can take advantage of the special academic assistance and intensive educational counseling offered by University College.

As part of Ball State’s commitment to excellence in education, the university offers students a friendly, collegiate atmosphere; a full range of out-of-class activities; and excellent, well-planned academic, residential, and recreational facilities. An impressive array of student support services contributes to the personal, social, and intellectual development of all students.

Although Ball State University is primarily a residential academic community, it also supports programs that reach students well beyond the immediate campus. Through interactive telecommunications, online courses, and live off-campus courses, Ball State’s distance education program provides many options to students who wish to take courses and pursue degree programs but face challenges of time and access to campus. The university has a strong commitment to cultural diversity and international programs. It offers exchange programs with universities throughout the world and a wide variety of opportunities for students to study abroad.

THE GRADUATE SCHOOL

www.bsu.edu/gradschool
Location: West Quad 100
Phone: 765-285-1297
Associate Provost for Research and Dean of the Graduate School: Robert J. Morris
Associate Dean: Carolyn A. Kapinus

OBJECTIVE OF GRADUATE STUDY

The objective of graduate study is to develop the intellectual breadth and specialized training necessary for careers in teaching, in research, and in the professions. The graduate programs at Ball State University emphasize the knowledge, methods, and skills needed for scholarly teaching, problem solving and original research, creative expression, and intellectual leadership.

The problems facing society require new knowledge and new ways of using existing knowledge. To meet these challenges the university provides, through its graduate programs, an atmosphere that fosters scholarship and creative activity.

GRADUATE EDUCATION COMMITTEE

Policies and procedures for graduate programs are the responsibility of the Graduate Education Committee subject to approval by the University Senate, the president of the university, and the board of trustees. The committee consists of 11 representatives elected by the graduate faculty of each college. The number of representatives from each college is based on the ratio of its membership to the total graduate faculty. Two members of the Faculty Council who are members of the graduate faculty also serve. Three members of the graduate faculty, recommended by the dean of the Graduate School, are appointed by the Faculty Council. In addition, one graduate student is selected by the Student Association from each college offering graduate programs. The dean of the Graduate School, the associate dean of the Graduate School, and the provost and vice president for academic affairs are ex-officio members.
GENERAL INFORMATION

Graduate Record Examination
The Graduate Record Examination (GRE), which consists of verbal, quantitative, and analytical writing sections, is required for admission to a doctoral or specialist degree program. For non-native speakers of English, a different standardized test, recommended by the department head and approved by the graduate dean, may replace the GRE. Departments may also require GRE Advanced Subject Tests. The GRE is also required for a master’s degree applicant in any of the following categories:

- applicants whose undergraduate degrees were received from nonaccredited institutions;
- applicants whose undergraduate grade point averages (GPA) are below 2.75 on a 4.0 point scale;
- applicants whose undergraduate degrees are from institutions with nontraditional grading systems; if nontraditional grades were received in the major field of study and related subjects, students are urged to submit both aptitude and, if available, advanced test scores;
- applicants who expect to major in a department or enter a program that includes the GRE as a condition for admission.

Graduate Academic Course Load
Graduate students may register for a maximum of 15 hours in a semester, 6 hours in a five-week summer term, and 12 hours for the combined summer terms.

Graduate assistants and doctoral assistants may register for a maximum of 12 hours in a semester and 3 hours in a five-week summer term. The minimum course load for an assistant is 6 hours of graduate credit in a semester and 3 hours in a five-week summer term.

A full-time graduate student, as defined for the purpose of classification for financial aid or veterans’ benefits, is a student registered for 9 or more semester hours in the fall or spring semester. A half-time load would consist of 5 to 6 hours. Full-time for a summer term is 6 hours; half-time, a minimum of 3 hours. A full-time student, as defined by the Office of the Bursar and Loan Administration for billing purposes, is a student registered for a minimum of 12 semester hours.

All requests for overloads or exceptions to the established minimum course load must be accompanied by a written statement from the student’s advisor, committee chairperson, or department chairperson justifying the request based on academic considerations only. Requests will be acted on by the dean of the Graduate School, the executive committee of the Graduate Education Committee, or both.

Course Numbering
Undergraduate courses of similar content may not be repeated at the graduate level for credit. Courses numbered 500 and above are for graduate students; graduate-level “taught-with” courses—graduate courses that may be taken by undergraduates—are represented by 500-level numbers; 600-level numbers are used for graduate courses; and 700-level numbers are for doctoral courses. Enrollment in 700-level courses requires doctoral-level standing or permission from the department chairperson and the dean of the Graduate School.

It is the student’s responsibility to ensure that courses are not repeated. A course applies only once to a degree or certificate.

Statement on Demonstrated Proficiency in English
Proficiency in the use of the English language is expected of all students who graduate with advanced degrees from Ball State University. Proficiency depends not so much on the ability to pass examinations—although the Cooperative English Test, the Test of English as a Foreign Language
(TOEFL), or GRE may be required—as it does on the habitual use of acceptable English in spoken or written work. Each department will judge the qualifications of its advanced students in the use of English. Reports, examinations, and speech may be used in evaluating students’ proficiency. Students found deficient in English will be offered an opportunity to remedy the deficiency and will be encouraged to seek the assistance the university provides for this purpose.

**Application for Graduation**

Each graduate-degree-seeking student should file an application for graduation before the start of the semester in which the degree is to be granted. The deadline for filing the application is the end of the fourth week of the semester of graduation.

**Commencement Degrees**

Degrees are awarded at the end of each semester. Formal public ceremonies are held at spring, summer, and fall commencements. All candidates are urged to attend commencement exercises, where graduate degrees are conferred individually.

**STUDENT ACADEMIC ETHICS AND ATTENDANCE POLICIES**

Students of the university must conduct themselves in accordance with the highest standards of academic honesty and integrity. Academic dishonesty by a student will not be tolerated and will be treated in accordance with this policy.

Academic dishonesty includes, but is not limited to, the following:

1. Violations of procedures that protect the integrity of a quiz, examination, or similar evaluation, such as possessing, referring to, or employing open textbooks or notes or other devices not authorized by the faculty member;
   a. copying from another person’s paper;
   b. communicating with, providing assistance to, or receiving assistance from another person in a manner not authorized by the faculty member;
   c. possessing, buying, selling, obtaining, giving, or using a copy of any unauthorized materials intended to be used as or in the preparation of a quiz or examination or similar evaluation;
   d. taking a quiz or examination or similar evaluation in the place of another person;
   e. utilizing another person to take a quiz, examination, or similar evaluation in place of oneself;
   f. changing material on a graded examination and then requesting a regrading of the examination;
   g. cooperating with someone else on a quiz, examination, or similar evaluation without the prior consent of the faculty member.
2. Plagiarism or violations of procedures prescribed to protect the integrity of an assignment, such as:
   a. submitting an assignment purporting to be the student’s original work that has been wholly or partly created by another person;
   b. presenting as one’s own the work, ideas, representations, or words of another person without customary and proper acknowledgment of sources;
   c. submitting as newly executed work, without the faculty member’s prior knowledge and consent, one’s own work which has previously been presented for another class at Ball State University or elsewhere;
   d. knowingly permitting one’s work to be submitted by another person as if it were the submitter’s original work.
3. Cooperation with another person in academic dishonesty, either directly or indirectly, as an intermediary agent or broker.
4. Knowingly destroying or altering another student’s work whether in written form, computer files, art work, or other format.
5. Aiding, abetting, or attempting to commit an act or action that would constitute academic dishonesty.

Implementation Procedures
Cases of academic dishonesty will be handled according to procedures outlined in the Student Academic Ethics Policy, found in the Faculty and Professional Personnel Handbook. For more information, contact the associate provost.

Code of Student Rights and Responsibilities
The Code of Student Rights and Responsibilities outlines behaviors expected of students at Ball State University. The standards of conduct apply to students while on the campus, when attending university-sponsored events, or when otherwise relevant to the security or integrity of the university community. View it online at www.bsu.edu/sa/srcs/studentcode.

Student Attendance
At Ball State University student attendance at class meetings is expected. Faculty shall establish attendance policies for their courses. Such attendance policies must be communicated to students by faculty through course syllabi or outlines.

Absence caused by field trips in one of the student’s courses or by official university responsibilities shall be announced in advance to instructors of the other course(s) in which the student is enrolled. A notice will originate in the office of the department chairperson and be brought to the instructor(s) by the student. This notice should be shown to the instructor(s) at least three (3) days before the field trip. All trips should be scheduled after the first week or before the last two weeks of a semester (last two weeks— including the examination period). Exceptions to these periods will be granted only after consultation with and approval by the provost and vice president for academic affairs and the vice president for student affairs and enrollment management.

Detailed information regarding requirements for veterans’ attendance may be obtained from the Office of Scholarships and Financial Aid. This information is kept current by directives received from the administrator of the Veterans Administration, VACO, Washington, D.C.

Campus Security Report/ Crime Statistics [668.46]
In compliance with the “Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act” (20 U.S.C. 1092), Ball State University provides the required information to all faculty, staff, and students in the Annual Security Report, available online at www.bsu.edu/studentservices. The report is published annually and contains crime statistics for the three most recent calendar years as well as campus policy regarding reporting of on- and off-campus criminal activity; facility safety and access; law enforcement; sale, possession, and use of alcohol and illegal drugs, including sanctions. It also includes information regarding availability of drug and alcohol education programs, safety and crime prevention programs, and sexual assault prevention programs and procedures to follow when sex offenses occur. The Campus Security Report is available in printed form upon request. Contact the Office of the Vice President for Student Affairs and Dean of Students at 800-382-8540, selection 8, or 765-285-5343.
Report on Athletic Program Participation Rates and Financial Support Data [668.47]

The Equity in Athletics Disclosure Act Report provides data on athletic participation rates and data on financial support for athletic teams. Contact Intercollegiate Athletics in the Health and Physical Activity Building, Room 116, or call 765-285-1671.

MASTER’S DEGREES

All master’s degree programs are selective and require departmental permission before admission and registration for any graduate courses. Students should see the appropriate department chairperson for special requirements.

Ball State University offers the following master’s degrees: master of architecture (MArch), master of arts (MA), master of arts in education (MAE), master of business administration (MBA), master of fine arts (MFA), master of landscape architecture (MLA), master of music (MM), master of public administration (MPA), master of science (MS), master of urban and regional planning (MURP), and master of urban design (MUD).

Secondary teachers working toward professional licensing must major or minor in each field for which endorsement is sought. (For a complete explanation of professional requirements see page 298.)

MASTER OF ARTS DEGREE MAJORS

Actuarial Science  Mathematics Education
Adult and Community Education  Music
Anthropology  Natural Resources and Environmental Management
Applied Behavior Analysis  Physical Education and Sport
Applied Gerontology  Physics
Biology  Physiology
Career and Technical Education  Political Science
Chemistry  Public Relations
Clinical Psychology  School Psychology
Cognitive and Social Processes  Science Education
Communication Studies  Secondary Education
Counseling  Social Psychology
Curriculum and Educational Technology  Social Psychology and Clinical Mental Health Counseling (Dual Major)
Educational Psychology  Social Science – Admissions Suspended
English  Sociology
Executive Development for Public Service  Special Education
Exercise Science  Speech-language Pathology
Geology  Statistics
Health Science – Admissions Suspended  Student Affairs Administration in Higher Education
History  Teaching English to Speakers of Other Languages (TESOL)
Family and Consumer Sciences  Mathematics
Journalism
Linguistics
Mathematics
Teaching English to Speakers of Other Languages (TESOL) and Linguistics  
Technology Education  
Telecommunications  
Visual Arts Studio  
Wellness Management

**Requirements and Usual Plan of Study**

A minimum of 30 hours is required for a master’s degree. Some majors are more than 30 hours. Check specific programs for degree requirements. The usual plan of study for the master of arts degree is as follows:

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<td>Major area of study including thesis, research paper, creative project, or graduate research methodology course</td>
<td>15–30 hours</td>
</tr>
<tr>
<td>Minor area of study of 8 or more hours and/or electives in any area or areas including the major area</td>
<td>0–15 hours</td>
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**MASTER OF ARTS IN EDUCATION DEGREE MAJORS**

Business Education  
Educational Administration and Supervision  
Elementary Education  
Physics  
Special Education

**Requirements and Usual Plan of Study**

Students working toward professional licensing in elementary education will major in elementary education. The usual plan of study for the master of arts in education degree is as follows:

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<th>Usual plan of study for the master of arts in education (MAE) degree</th>
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<tr>
<td>Major area of study including thesis, research paper, creative project, or graduate research methodology course</td>
<td>15–21 hours</td>
</tr>
<tr>
<td>Three courses from the professional education core</td>
<td>9 hours</td>
</tr>
<tr>
<td>Minor area of study of 8 or more hours and/or electives in any area or areas including the major area</td>
<td>0–11 hours</td>
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**MASTER OF SCIENCE DEGREE MAJORS**

Accounting  
Biology  
Chemistry  
Computer Science  
Dietetics  
Exercise Science  
Geography  
Geology  
Health Science  
Historic Preservation  
Family and Consumer Sciences  
Information and Communication Sciences  
Mathematics  
Natural Resources and Environmental Management  
Nursing  
Physical Education and Sport  
Physics  
Physiology  
Wellness Management
**Requirements and Usual Plan of Study**

The master of science program in historic preservation usually requires 57 hours of study, including a summer internship. For a student who holds a bachelor of architecture degree, a preservation and restoration option is available under the master of architecture degree (30 hours). Admission to either program requires departmental permission.

A thesis is required for all students working toward the master of science degree, except those majoring in accounting, computer science (a nonthesis option is available), information and communication sciences, and nursing. The usual plan of study for the master of science degree is as follows:

| Major area of study including credit for thesis | 15–30 hours |
| Minor area of study of 8 or more hours and/or electives | 0–15 hours |

**Minors**

Minors are usually available in the major fields of study for the master’s degree. They are also available in general foundations of business, GIScience, higher education, public health, and school library and audiovisual services. General foundations of business is a 12-hour minor that is not open to students who have an undergraduate major in any field of business or who are majoring in any field of business at the master’s level.

**Plan of Study**

A student’s plan of study, including the major area and the minor area or electives, will be selected in consultation with the appropriate department chairperson or delegated representative who serves as the student’s departmental advisor.

**MASTER’S DEGREE ADMISSION**

**Application for Admission**

A baccalaureate degree from Ball State University or an equivalent degree from an institution accredited by its regional accrediting association is a prerequisite for admission to graduate study for a master’s degree. An applicant with a baccalaureate degree not considered the equivalent of that of Ball State University may be Master’s degree admission to be determined by the dean of the Graduate School.

Apply for admission to graduate study online at [www.bsu.edu/gradschool](http://www.bsu.edu/gradschool), where students may also download an application to print, complete, and submit to the Graduate School. Students may also obtain a printed application form from the Office of Graduate Admissions.

To be eligible for registration, the student must be admitted to a graduate degree program, and the Graduate School must have received the graduate application and one official transcript from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work. An official transcript is one that has been received directly from the issuing institution. It must bear that institution’s seal, the date, and an appropriate signature. Transcripts received that do not meet these requirements will not be considered official and will be rejected for any permanent use. All transcripts become the property of Ball State University.

**Application Deadline**
All application materials, including a completed application form and official transcripts, must be submitted to the Graduate School at least four weeks before the term in which the student wishes to begin graduate study. Departments may have earlier deadlines and require additional supporting credentials for admission. A prospective student should contact the major department for specific program deadlines and prerequisites. Enrollment for applicants whose admission materials arrive after the deadline may be deferred to a subsequent term.

Admission Standards
Admission standards are established for each master’s degree program at Ball State University by the responsible academic unit. Students must meet the following minimum criteria to be considered for admission to graduate study toward a master’s degree:

1. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.

2. Satisfy one of the following:
   a. an undergraduate cumulative grade point average (GPA) of at least 2.75 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate degree, is used to calculate the GPA).
   b. a cumulative GPA of at least 3.0 on a 4.0 scale in the latter half of the baccalaureate.
   c. an acceptable combination of cumulative GPA on the baccalaureate and score on the Graduate Management Admission Test (GMAT) if the intended program is the master of business administration or the master of science in accounting.
   d. A minimum 3.0 GPA in 9 semester hours of graduate work approved by the chairperson of the major department, approved in advance by the graduate dean, as well as, obtain a score on a standardized admission test with national norms. Both the test and the score must be acceptable to the academic unit in which the student intends to major. Official scores from the standardized test must be on file in the Graduate School prior to enrollment in the student’s first graduate course. Such students will be considered degree-seeking students with probationary admission status.

3. Meet departmental or program admission requirements.

Regular admission is not complete until an approved program of courses required for the degree is filed with the major department. Compensatory course work may be required for students whose undergraduate majors do not prepare them for their chosen master’s degree programs. Any such course requirements in addition to the basic 30 hours for the degree must be stated in the approved programs.

Students may be permitted to enroll in graduate courses before regular admission only upon recommendation of the major academic unit. Such students will be considered degree-seeking students with conditional admission status. However, only 9 hours earned at Ball State University before being granted regular admission may be applied toward a master’s degree program.

Exceptions to admission policies must be approved in advance by the dean of the Graduate School.

An applicant who meets minimum Graduate School admissions standards is not guaranteed admission to a specific degree program.

After official admission to a master’s degree or certificate program, the student has two years in which to begin courses approved for the degree program. A student who has not taken a course or courses during this two-year period will be dropped from the program, and all admission materials will be destroyed. The student may reapply for admission but must submit new application materials and meet all current admission requirements.
**Conditional Admission**

Applicants who have not submitted complete admission materials or who have not yet been officially admitted to their departmental master’s degree programs may be granted conditional admission. Students will be notified of conditions that must be met at the time of admission. If the conditions for a student’s admission have not been fulfilled within the time period specified (usually one academic semester), the student will be barred from subsequent registration in the Graduate School.

**Fresh Start Admission**

A graduate student may request a “fresh start” when changing or returning to a graduate program leading to a master’s degree at Ball State University. A “fresh start” is defined as beginning a graduate program and having the graduate academic record recalculated to reflect no hours attempted and no graduate grade point average for the new program. All graduate courses previously taken at Ball State University, however, will remain on the student’s academic record.

To be considered for a fresh start, the student must submit a graduate application and a written statement of purpose for seeking readmission to the dean of the Graduate School and must meet the following criteria:

1. a period of time of no less than six years has expired since the student withdrew or was dismissed from a Ball State graduate program,
2. the student’s previous graduate GPA is below the minimum required to earn a master’s degree (3.0 on a 4.0 scale),
3. the student meets current Graduate School admission requirements, and
4. the student has been recommended for admission into the program by the appropriate department.

Courses completed in a previous Ball State graduate program will not transfer or be applied to the requirements of the new program. The new program must be finished and the degree conferred within six years of the completion of the first new course. The student must complete a minimum of 30 semester hours, and the program of study must meet all departmental and Graduate School requirements.

Only one fresh start will be granted to any one graduate student at Ball State University. Final approval for a fresh start application rests with the dean of the Graduate School.

**ADMISSION AS A NONDEGREE STUDENT**

**Admission**

Ball State University has two categories of nondegree admission:

1. **Nondegree (Licensure)**—Licensure clearance is granted to students working toward any of the following:
   - professional grade teaching (post-master’s),
   - school services personnel and school administration and supervisory certificates,
   - and endorsements added through completion of graduate credit.

   Students are required to supply Graduate Admissions with official transcripts verifying the baccalaureate degree including all undergraduate work completed prior to the granting of the baccalaureate degree as well as any transcripts deemed necessary for added licensure. A student must have a cumulative undergraduate GPA of at least 2.5 on a 4.0 scale or a 3.0 on a 4.0 scale in the latter half of the baccalaureate to be enrolled. Students whose cumulative undergraduate GPA is below 2.5 may be allowed to enroll in a 9-credit-hour probationary plan of study consisting of undergraduate courses only. Probationary students must earn at least a 3.0 GPA in the 9 undergraduate credit hours to be considered for approval to take graduate courses.
2. **Nondegree (Nonlicensure)**—Ball State University recognizes the need of many persons to pursue educational programs that may be related to their employment or that will otherwise enrich their lives. For these reasons, students with baccalaureate or advanced degrees who do not have further degree objectives but desire personal and professional enrichment may be admitted to graduate study as nondegree students. Students are required to supply Graduate Admissions with official transcripts verifying the baccalaureate degree, including all undergraduate work completed prior to the granting of the baccalaureate degree.

A student must have a cumulative undergraduate GPA of at least 2.5 on a 4.0 scale or a 3.0 on a 4.0 scale in the latter half of the baccalaureate to be enrolled. Nondegree students who later apply to a degree program must meet all entrance requirements of that program and have maintained at least a 3.0 graduate GPA in their nondegree course work. *No more than 9 hours earned in nondegree status may be applied to an advanced degree program if a person later is admitted as a regular graduate student.* The department in which the student is studying and the dean of the Graduate School will determine which credit hours earned in nondegree status will apply to a degree program. Credit hours must have been completed within the six-year time limit allowed for completion of a master’s degree.

**RETENTION AS A NONDEGREE STUDENT**

**Satisfactory Grade Point Average (GPA)**
At any time after completion of 9 hours of graduate study, students must have and maintain at least a 3.0 graduate GPA.

**Probationary Status**
Students will be placed on academic probation if their cumulative graduate GPA falls below 3.0 at any time after completion of 9 hours.

To remove probationary status, a student must have at least a 3.0 graduate cumulative GPA by the time the next 9 graduate hours are completed.

If probationary status is not removed, the student’s admission to graduate study will be canceled, and additional graduate study will not be possible until the student has reapplied and been readmitted. Students seeking readmission must present to the dean of the Graduate School a written request approved by the chairperson of the major department. The decision to readmit will be made by the dean of the Graduate School.

**Readmission Status**
Students readmitted to graduate study will carry the same classification held when graduate admission was canceled.

**Certificate Programs**
Ball State University offers graduate certificate programs in the following areas:

- Applied Behavior Analysis
- Artist Diploma in Music Performance
- Autism
- Biotechnology
- Business Essentials
- Charter School Leadership
- Clinical Neuropsychology
- College and University Teaching
- Community and Economic Development
- Computer Education
- Digital Design and Fabrication
- Diversity Studies
<table>
<thead>
<tr>
<th>Early Childhood Administration</th>
<th>Information Systems Security Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Mathematics Teacher Leadership</td>
<td>Institutional Research</td>
</tr>
<tr>
<td>Emergency Management and Homeland Security</td>
<td>Interpretive Ethnography</td>
</tr>
<tr>
<td>Enhanced Teaching Practice for Elementary Teachers</td>
<td>Literacy Instruction</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Middle Level Education</td>
</tr>
<tr>
<td>Gifted and Talented Education</td>
<td>Nursing</td>
</tr>
<tr>
<td>Health Economics, Policy, and Administration</td>
<td>Pre-Master’s in Computer Science</td>
</tr>
<tr>
<td>Human Development and Learning</td>
<td>Public Health Education</td>
</tr>
<tr>
<td>Identity and Leadership Development for Counselors</td>
<td>Public Relations, Corporate Communications</td>
</tr>
<tr>
<td>Information and Communication Technologies for Non-Engineers</td>
<td>Public Relations, Education</td>
</tr>
<tr>
<td></td>
<td>Real Estate Development</td>
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<td></td>
<td>Response to Intervention</td>
</tr>
<tr>
<td></td>
<td>Selling and Sales Management</td>
</tr>
</tbody>
</table>

**Admission**

Students must meet the minimum requirements for admission to a master’s degree program and, if accepted, will be classified as nondegree students. After official admission to a master’s degree or certificate program, the student has two years in which to begin courses approved for the degree program. A student who has not taken a course or courses during this two-year period will be dropped from the program, and all admission materials will be destroyed. The student may reapply for admission but must submit new application materials and meet all current admission requirements.

**Curriculum Criteria**

The number of graduate credits for a certificate must be at least 12 semester hours and not more than one-half of the credits necessary for a related graduate degree. All certificate requirements must be met within five years. Students must earn at least a 3.0 GPA to qualify for a certificate, but no course with a grade below 2.0 (C– or lower) can be counted toward the certificate. No transfer credit is allowed to count toward the certificate. Hours earned toward the certificate can apply to a degree-granting program with departmental approval, but students must apply for admission to degree programs before one-half of the required credits are completed.

**Guest Student Clearance**

Clearance to enroll in graduate courses may be granted to students who request to be considered a guest student. Guest students are not taking graduate courses toward any graduate degree or licensure program at Ball State University and are not considered to be admitted to the Graduate School.

**Classifications**

There are two classifications as a nondegree guest student:

1. **Special Status**—Clearance is granted to students who hold a baccalaureate degree who wish only to enroll in certain workshop courses for graduate credit. Students are required to supply the Graduate School with an official transcript showing conferral of the baccalaureate degree (a transcript showing a master’s degree can substitute for an undergraduate degree). Students must complete the “Application Form for Guest Student Status” and indicate they wish to be considered for Special Status.

2. **Transient Status**—Clearance is granted to students who hold a baccalaureate degree and are actively pursuing a graduate degree program at another regionally accredited college or university and who wish to earn credits for transfer to that institution. Students must complete the “Application Form for Guest Student Status” and indicate they wish to be considered for Transient Status. Transfer of Credit students normally will not be required to submit official transcripts (see next paragraph). However, students must request the dean of their graduate school to complete the
Ball State University “Transfer of Credit Form” indicating they are in good academic standing (i.e., not under academic probation, suspension, and/or expelled).

If the student has been offered admission to a graduate school at another institution but has not taken any graduate courses at the time transfer for credit status is requested, then the applicant must apply for regular nondegree status and meet all of the requirements for “Admission as a Nondegree Student” found in the Graduate Catalog.

Approval for enrollment as a guest student is generally given for one academic semester (two summer sessions count as one semester). To be considered for an additional semester, students must reapply as a guest student. No application fee is required for clearance as a guest student.

Students who subsequently wish to be considered for admission to any graduate degree or licensure program at Ball State University must complete the regular admission procedure (including the appropriate application fee) and meet all requirements for their requested program. No more than 9 hours earned as a guest student may be applied to any advanced degree program if a person is admitted as a regular graduate student.

Readmission Status
Students readmitted to graduate study will carry the same classification held when graduate admission was canceled.

International Student Admission
International students interested in graduate study at Ball State University should visit the Rinker Center for International Programs (RCIP) Office of International Admissions Web site at www.bsu.edu/international for application forms. International students must meet all the university’s regular admission requirements. All credentials from secondary schools, colleges, universities, and their equivalents from locations other than the United States are evaluated by RCIP.

Physical Examination Requirement for International Students.
After arrival at Ball State University, during the registration process, all international students are required to appear at the University Health Center for a physical examination.

English Proficiency for Nonnative Speakers of English
Students who are non-native speakers of English applying for admission to the Graduate School must submit the results of the Test of English as a Foreign Language (TOEFL) taken no more than 18 months before the date of admission. A student intending to enroll at Ball State University may be required to retake the TOEFL before being admitted, regardless of the extent of previous training in English. Any exceptions to these rules must be approved by RCIP and the dean of the Graduate School.

Any student admitted with a score lower than 550 on the TOEFL (213 CBT/79 IBT) will be required to take ENEFL courses offered by the intensive English Institute in the Department of English. Exceptions to this rule must be approved by RCIP, the dean of the Graduate School, the chairperson of the department in which the student is majoring, and the director of the Intensive English Institute. Any department may set a higher score requirement than a score of 550 (213 CBT/79 IBT) for its majors.

If it is deemed advisable, RCIP or the director of the Intensive English Institute may recommend to the dean of the Graduate School that a student be required to take one or more of the English Language Tests administered by the Ball State University Counseling Center.
Any international student may take a course in English as a foreign language, regardless of whether such a course is required.

Any student who is required to take a course in English as a foreign language and whose progress is unsatisfactory will be required to repeat the course if the director of the Intensive English Institute deems it advisable or if the chairperson of the department concerned and the dean of the Graduate School deem it advisable. The chairperson of the department concerned and the dean of the Graduate School will take into consideration the recommendation of the English department. Before completing their course work in the Intensive English Institute, students are required to pass an assessment of their proficiency in English.

**Conditional Admission**
An applicant who meets all Graduate School academic requirements except for the minimum English proficiency requirement may be granted conditional admission. Conditional admission requires a prospective student to complete the English training course(s) and provide proof of English proficiency before regular admission and enrollment in graduate academic courses. Such a student is expected to achieve TOEFL-equivalent English proficiency within one year.

The initial I-20 will be generated by RCIP. Once RCIP certifies that the student has achieved English proficiency, he/she will be eligible for regular admission (or provisional if the department has additional requirements). Regular admission is determined by the student’s major department. When a student’s admission status changes from Conditional to Regular (or provisional) status, a new I-20 will be issued.

If English proficiency is not achieved within one year of conditional admission, a student can apply to Undergraduate Admissions or reapply to the Graduate School after completing additional classes at the English Language Institute.

An applicant granted conditional admission status will not normally be approved for an assistantship until regular admission is earned.

Any exception to the above policy must be approved by the dean of the RCIP and the dean of the Graduate School.

**PROCEDURES FOR EARNING A MASTER’S DEGREE**

**Graduate Advising**
Each department is responsible for evaluating the qualifications of its prospective graduate students. One of the evaluation tools used by some departments is a proficiency examination administered by the department. When undergraduate preparation in the chosen field of graduate study is insufficient, a student’s major advisor may prescribe additional work. If the department determines that a student is deficient in one or more areas, the student is expected to remove these deficiencies.

The chairperson of the concerned department or the delegated representative will advise the student in outlining a degree program. All departmental advisors signing approval for graduate student academic programs must have been approved by their departments. When a student’s eligibility is assured, the academic advisor will admit the student to candidacy for the master’s degree and later will recommend the conferment of the degree. The research paper, creative project, and thesis will be written under the supervision of an academic advisor who is a member of the department in which a student has selected a major.
**Registration**

Upon receiving registration clearance, graduate students may register for courses in person, by mail, or online at [www.bsu.edu/studentservices](http://www.bsu.edu/studentservices). A Ball State University e-mail account is needed to use online registration services. Please contact the following offices for registration assistance:

<table>
<thead>
<tr>
<th>Students seeking a degree offered through the Miller College of Business</th>
<th>Office of Graduate Programs, WB 147, 765-285-1931</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students seeking a degree offered through the Teachers College</td>
<td>Appropriate department</td>
</tr>
<tr>
<td>All other degree-seeking students</td>
<td>Major departmental advising office</td>
</tr>
<tr>
<td>Nondegree-seeking students taking classes on main campus</td>
<td>Graduate School, 765-285-1297</td>
</tr>
<tr>
<td>Teacher licensing students</td>
<td>Teacher Education Services, TC 915, 765-285-1168</td>
</tr>
<tr>
<td>All students taking classes at off-campus sites (degree and nondegree, except for business, see above)</td>
<td>Online and Distance Education in the School of Extended Education, CA 200, 765-285-1583</td>
</tr>
</tbody>
</table>

Mail registrations should be sent to the Office of the Registration, Ball State University, Muncie, IN 47306. *Registration forms submitted after fees are due must be accompanied by payment.* Please check the Office of Registration’s Web site at [www.bsu.edu/registration](http://www.bsu.edu/registration) for appropriate dates to begin registration and when payment of fees is required.

All day-class students are expected to register before the beginning of a semester or term. The period of advance registration for each semester and term is specified in the *Schedule of Classes* and the Office of Registration’s Web site at [www.bsu.edu/registration](http://www.bsu.edu/registration). The penalty for late registration is a late-registration fee.

Students not on campus are also urged to register in advance. Students for whom advance registration is impossible may register online at [www.bsu.edu/studentservices](http://www.bsu.edu/studentservices) or in person during regular office hours up to the day classes convene for a semester or term. A Ball State University e-mail account is needed to use online registration services. Information requested on the registration form used to register in person includes the student’s address and telephone number in Muncie for the school year. Changes of address or telephone number after registration are to be reported to the Office of the Registrar.

**Research Plans**

Candidates for master’s degrees will organize their graduate study to meet the requirements of one of four research plans:

- thesis, 6 hours of graduate credit;
- research paper, 3 hours of credit;
- creative project, 3 or 6 hours of credit; or,
- graduate research methodology course plan, a minimum of 3 hours of graduate credit.

The research requirement must be taken at Ball State University.

Before beginning work on a research project, a student must submit a *topic approval form*, signed by his or her advisor and the appropriate departmental chairperson, to the dean of the Graduate School. The form, obtainable in the department, the Graduate School office, and *online*, is to be accompanied by a
typewritten description of the proposed research paper, creative project, or thesis including a statement of
the problem, the value and significance of the problem, and the research methodology to be used in the
study.

Although the concerned department has the responsibility for determining the manual or form to be
followed in writing the thesis, research paper, or creative project, such matters as weight of paper,
typeface, spacing, and professional typing standards must follow the Graduate School guidelines.

After receiving approval for RES 697, THES 698, or CRPRJ 698 all master’s degree candidates must be
registered each semester during the academic year. If not registering for a course or courses, the candidate
will register for MASTR 600, Master’s Candidate, for a fee of $75. Before degree conferral, registration
and subsequent payment for MASTR 600 are mandatory for students who have not registered for
MASTR 600 during required semesters. Registration in MASTR 600 is not required during the summer.
Registration in MASTR 600 will give the master’s candidate the rights and privileges of a regular student.

A master’s candidate may also take MASTR 600 under other circumstances when not registered for a
course or courses—for instance, while working off an incomplete grade—with the approval of the
candidate’s committee chairperson, the department advisor, and the dean of the Graduate School.

**Thesis (THES 698)**

This plan requires the candidate to present a thesis embodying the results of a study of some subject
directly related to the area of specialization. The thesis must show that the candidate possesses the
abilities to pursue a research problem successfully and to draw valid and significant conclusions from the
data. The student must have a committee of three faculty members selected in consultation with the
department chairperson.

A student may not submit this paper until 12 credit hours of graduate work have been completed and the
candidate’s advisor and departmental chairperson have signed a statement approving the subject. A
student must also be in good academic standing to register for THES 698. Approval forms are available
online.

The approved thesis must be presented to the dean of the Graduate School in final form at least four
weeks before the close of the semester or term in which the student is to be certified for graduation. The
final copy of the approved thesis, any accompanying materials, and a 100- to 150-word abstract of the
thesis describing the nature of the study and findings must be submitted to the Graduate School
electronically at https://apps.bsu.edu/ElectronicThesis. Two hard copy documents, the Final Approval
Form and the ETD Signature Form, signed by all three members of the student’s committee and the
department chairperson, must be submitted to the Graduate School. A copy of the thesis may be required
for the departmental file. It is the student’s responsibility to deliver this copy.

The student who writes a thesis must enroll in THES 698 Thesis, for a total of 6 hours of credit. The
thesis is not used to meet the requirements for any course except THES 698.

The grading system used for THES 698 is credit, no credit, or credit with distinction.

**Research Paper (RES 697)**

This paper must be an original study of nonthesis proportions showing that the candidate possesses the
abilities to pursue a research problem successfully and to draw valid and significant conclusions from the
data. It must be on some subject directly related to the candidate’s area of concentration and must meet
the approval of the student’s departmental advisor and the department chairperson. A student may not
submit this paper until 12 credit hours of graduate work have been completed and the candidate’s advisor
and the department chairperson have signed a statement approving the subject. A student must also be in good academic standing to register for RES 697. Approval forms are available online.

A student must submit the research paper in its final approved form at least four weeks before the close of the semester or term in which the candidate is to be certified for graduation. The final copy of the approved research paper, any accompanying materials, and a 100- to 150-word abstract of the research paper describing the nature of the study and findings must be submitted to the Graduate School electronically at https://apps.bsu.edu/ElectronicThesis. Two hard copy documents, the Final Approval Form and the ETD Signature Form, signed by all three members of the student’s committee and the department chairperson, must be submitted to the Graduate School, showing that the work is accepted as the student’s research paper for a master’s degree. If the departmental advisor and the department chairperson are the same person, another member of the graduate faculty within the department of the student’s major must also sign the form, indicating familiarity with the paper and knowledge of the student’s work. A typed copy of the research paper may be required for the departmental file. It is the student’s responsibility to deliver this copy.

The student who writes a research paper must enroll in RES 697 Research Paper for 3 hours of credit. The research paper is not used to meet the requirements of any course except RES 697.

The grading system used for RES 697 is credit/no credit.

Creative Project (CRPRJ 698)
The creative research project (3 or 6 hours) must be in the student’s concentration area. Examples of creative projects are a musical arrangement, composition, or recital; painting(s), sculpture, or a craft project; a literary composition; and instructional units in science or social science. The creative project must be supported by a written report that includes background research and other significant information basic to the project, as well as a thorough description of the project itself. The student is required to have a committee of three for the 6-hour project and an advisor for the 3-hour project. These members will be selected in consultation with the department chairperson.

A creative research project must show evidence of superior craftsmanship and creative scholarship and must be limited to students, on the recommendation of the department chairperson, who are capable of exhibiting these traits. It must meet the approval of the student’s advisor and the chairperson of the department concerned.

A student is not permitted to submit a creative project before completing 12 credit hours of graduate work and obtaining a signed statement from the departmental advisor and the department chairperson approving the project. A student must also be in good academic standing to register for CRPRJ 698. Approval forms are available online.

The project in its final approved form must be submitted to the Graduate School at least four weeks before the close of the semester or term in which the candidate is to be certified for graduation. The final copy of the approved project, any accompanying materials, and a 100- to 150-word abstract of the project describing the nature of the project must be submitted to the Graduate School electronically at https://apps.bsu.edu/ElectronicThesis. Two hard copy documents, the Final Approval Form and the ETD Signature Form, signed by all three members of the student’s committee and the department chairperson, must be submitted to the Graduate School, showing that the work is accepted as the student’s creative research project for the master’s degree. If the departmental advisor and the department chairperson are the same person, another member of the graduate faculty in the student’s major department must also sign the form.
The student who writes a creative project will enroll in CRPRJ 698 Creative Project for a total of 3 or 6 hours of credit. The creative research project is not used to meet the requirements for any course except CRPRJ 698.

The grading system used for CRPRJ 698 is credit/no credit.

**Graduate Research Methodology Course Plan**
This course plan is not approved as a research plan option in some master’s degree programs. For these programs, a thesis, research paper, or creative project is required.

A candidate for a master’s degree choosing the graduate research methodology course plan will complete an appropriate research course at Ball State University totaling a minimum of 3 semester hours. The research course, with departmental approval, will constitute a part of the master’s degree major.

Each academic unit offering a master’s degree will identify the course or courses it will use to satisfy the research course requirement of 3 or more semester hours. The research course may be taken in another department with the approval of the major-area advisor.

Research methodology courses identified as appropriate should emphasize either basic or applied research skills, or both. Unlike other graduate courses in the major area dealing with research, this course will have research as its primary focus and will be taught by persons with special research competencies and interests. Course content should include preparation of a research study, report, or paper.

**Comprehensive Examinations for the Master’s Degree**
The Graduate School does not require comprehensive examinations for master’s degree students. Departments and academic units that do have these requirements solely determine the format that is most appropriate for their disciplines but must adhere to the following general guidelines:

- The comprehensive examinations should be taken when the majority of the course work required for the master’s degree is completed. The examinations will be offered each academic semester, the time and place to be determined by the administering department or academic unit.
- The examining committee will be made up of three members of the graduate faculty representing the student’s major area(s) of study and will evaluate the student’s performance.
- The committee decision will be either “pass” or “fail.”
- The examining committee chairperson will notify the student, department chairperson or program director, and the Graduate School in writing of the outcome when the student has completed the comprehensive examination.
- A failed examination may be repeated only one time. The committee members who administered the first examination will also administer the retest.
- A student who fails the examination after two attempts is not allowed to complete graduate studies in that program, and the master’s degree will not be conferred.

Exceptions to the above guidelines must be approved in advance by the dean of the Graduate School.

A student must pass the comprehensive examination before submitting a final copy of the research paper, creative project, or thesis (if required) to the Graduate School.

**Final Thesis or Creative Project Defense**
Candidates for master’s degrees may be required or may choose to write a thesis or a six-hour creative project (see pages 16-17 of the current Graduate Catalog for a description of theses and creative projects). The Graduate School does not require an oral defense for theses or six-hour creative projects.
Departments and academic units that do have this requirement solely determine the format that is most appropriate for their disciplines, but they must adhere to the following general guidelines:

- The defense will cover the thesis or six-hour creative project in its final form, administered by the student’s committee. The time and place of the defense should be scheduled at least 10 days in advance. All committee members must be supplied a copy of the thesis or creative project well in advance of the scheduled defense to allow adequate time to review the final project. No defense will be given without all committee members present, unless prior consent is granted by the graduate dean in consultation with the chairperson of the committee and the absent committee member.
- If, in the opinion of the committee chairperson or upon a motion duly passed by a majority of the committee, it is deemed desirable to discontinue the oral defense, the chairperson may recess the oral defense until a time mutually agreeable to the student and the committee.
- After the conclusion of the defense and when the committee has determined the success or failure of the student, all the committee members must sign the Final Examination Form. The department chair or designate also signs the form and forwards it to the Graduate School.
- If the candidate has failed the defense, the committee must prepare a report including reasons for failure and requirements to be met. The committee chairperson must file this report with the dean of the Graduate School within seven days from the date of the defense. Permission to defend for a second time must be obtained from the chairperson of the student’s committee and the dean of the Graduate School. Failure to pass the second defense will result in termination of master’s degree study for said degree program.
- Upon passing the final thesis or creative project defense, the candidate can be formally recommended to receive the degree when all course work is completed satisfactorily.

A student who has failed the defense may request the department to be allowed to complete a master’s degree without the thesis or six-hour creative project in academic areas in which the thesis or creative project is not required. The student must, however, complete all degree requirements for said degree program, including the appropriate research course or courses, as would any student who did not choose the thesis or creative project option.

**Grading System**
The graduate grading system and credit points are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>3.667</td>
</tr>
<tr>
<td>B+</td>
<td>3.333</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.667</td>
</tr>
<tr>
<td>C+</td>
<td>2.333</td>
</tr>
<tr>
<td>C</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>1.667</td>
</tr>
<tr>
<td>D+</td>
<td>1.333</td>
</tr>
<tr>
<td>D</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>.667</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

The following grades are not included in the calculation of GPAs: *W* (Withdrawal), *I* (Incomplete), *AU* (Audit), and *EC* (Enrollment Continued).
All graduate grades are used in computing the student’s cumulative GPA. An overall scholastic ratio of 3.0 GPA (B average) must be attained before admission to candidacy and the final awarding of any master’s degree. An average of B is also required in the student’s major. An overall scholastic GPA of 3.2 must be attained before admission to candidacy and the final awarding of any specialist or doctoral degree. No course with grades below C (2.0) may be counted toward any degree program. Individual departments may have higher minimum grade requirements. Consult the individual departments for a description of the minimum grade requirements.

I represents incomplete work and is given only when the instructor permits a student to finish incomplete work. In cooperation with the department chairperson, the instructor determines the validity of the claim to an incomplete grade and outlines the procedure for its removal and the time limit for completing the work. Forms are filed in triplicate: one with the department chairperson and two with the Office of the Registrar, one copy of which is mailed to the student. The maximum time permitted for the completion of an I grade is one year. An exception is made when an I grade is given for RES 697, THES 698, DISS 799 or CRPRJ 698. If an I grade is not removed within the time agreed upon, it automatically becomes an F. Upon written notification to the registrar, the dean of the Graduate School may approve an extension of time up to one more year.

It is common practice for an I grade to be given to students enrolled in RES 697, THES 698, DISS 799, and CRPRJ 698 until the completed research paper, thesis, or dissertation has been submitted to the Graduate School in its final approved form.

At the close of each semester or term of attendance, a report of grades earned is mailed to each student. Any change in a grade already reported must be made by the instructor on a Change-of-Grade/I Removal form. Grade changes must be approved by the dean of the college concerned before filing in the Office of the Registrar. Any such change must be completed within one year of the close of the session for which the grade was due.

Course Repetition
A graduate student may not repeat more than one time a course for which a grade has been given. The repetition of a course does not remove the previous grades from the student’s official academic record. The last grade in a course will be used in computing the scholastic ratio (GPA). The credit hours will count only once toward meeting minimum hourly requirements for graduation.

Individual programs may impose additional limitations on course repetitions with the approval of the dean of the Graduate School. Students are advised to familiarize themselves with program policies.

Auditing a Course
A student who wishes to take a course without expectation of credit registers as an auditor. No credit will be earned; however, a transcript entry of “audit” may be recorded. The instructor will decide whether an audit class is to be posted on the permanent record.

Credit/No Credit
The option of credit/no credit is generally not available for graduate courses above zero hours with the exception of graduate student teaching courses, RES 697, THES 698, CRPRJ 698, and DISS 799.
RETENTION IN MASTER’S DEGREE PROGRAMS

Satisfactory Grade Point Average (GPA)
At any time after completing 9 hours of graduate study, students must have and maintain at least a 3.0 graduate GPA.

Probationary Status
Students will be placed on academic probation if their cumulative graduate GPA falls below 3.0 at any time after completion of 9 hours.

To remove probationary status, a student must have at least a 3.0 graduate cumulative GPA by the time the next 9 graduate hours are completed.

If probationary status is not removed, the student’s admission to graduate study will be canceled, and additional graduate study will not be possible until the student has reapplied for regular admission and has been readmitted.

Readmission Procedure
Students seeking readmission must present to the dean of the Graduate School a written request approved by the chairperson of the major department. The decision to readmit will be made by the dean of the Graduate School.

Readmission Status
Students readmitted to graduate study will carry the same classification held when graduate admission was cancelled.

CANCELLATION AND WITHDRAWAL

Cancellation Policy
If students do not wish to attend any university classes for which they are enrolled and it is before the official start date of all university classes, they may cancel their entire registration by contacting the Office of Registrar. The deadline for cancellation is the close of business on the Friday prior to the beginning of the term. Cancellation of registration does not result in a W on the student’s record.

Change-of-Course Period
Students may drop a course through the fifth class day of a semester or through the third day of a summer term. Courses dropped through this period are not recorded on the student’s permanent record. If, however, the student is enrolled in only one course, dropping a course during the first week of class constitutes a withdrawal from all classes. As a result, a W is recorded on the student’s permanent record. For more information, see Error! Reference source not found.

Course-Withdrawal Period
The course-withdrawal period is from the sixth day of classes to the forty-fifth day of classes in a semester, sixth to the thirtieth day in a summer semester, and fourth to the fifteenth day of classes in a summer session. Saturday is not considered a class day for these purposes.

All student-initiated withdrawals will be accepted and recorded as W during this period. Students may obtain withdrawal forms from the Office of Registration and Academic Progress. Students wishing to withdraw from a course during this period need to take the following actions:
1. should see the instructor and discuss the withdrawal;
2. must take the initiative to obtain the withdrawal form with instructions; and
3. must submit the completed form to the Office of Registration and Academic Progress by the last day of the withdrawal period.

**Withdrawal After the Course Withdrawal Period: Verifiable Extenuating Circumstances**

If there are verifiable extenuating circumstances that make withdrawal from a course academically justified after the withdrawal period ends, the college dean (or designate) may grant an exception to the above withdrawal policy. The faculty member is responsible for determining the grade to be assigned, W or F.

**Withdrawal from All Classes in a Semester or Term**

Students finding it necessary to withdraw from all classes in a semester or term must report immediately to the Office of the Vice President for Student Affairs and Dean of Students (or designate) and complete an application for withdrawal. Beginning with the first day of classes, any requests for withdrawal from all classes must be made on the required form and filed with this office.

**APPLICATION FOR GRADUATION**

All master’s degree candidates must file an application for graduation in the Graduate School. A student should obtain his or her planned program from the major department for submission to the Graduate School. All approved program changes made during the student’s course work must be indicated on this form.

**TIME ALLOWED FOR A MASTER’S OR SPECIALIST DEGREE**

All degree requirements must be met within six years unless the dean of the Graduate School, on the recommendation of the chairperson of the department offering the degree, approves an extension of time.

When some but not all degree requirements were fulfilled more than six years earlier, a student may apply for revalidation. In doing so, he or she must obtain permission from the department chairperson and the dean of the Graduate School to demonstrate evidence of current knowledge in the out-of-date requirements. Revalidation of out-of-date requirements may be demonstrated through examinations or retaking of out-of-date courses for credit or audit or by presenting other evidence of currency in the field. The department chairperson will present a written statement to the dean of the Graduate School outlining the conditions for revalidation of the requirements; the dean of the Graduate School will make the final determination on these conditions. If the dean of the Graduate School approves the conditions for revalidation, the department chairperson will forward written results of these conditions, once satisfied, along with a recommendation for or against granting credit for the course(s) in question.

When all degree requirements were fulfilled more than six years earlier, a student must reapply for admission and meet current admission standards and degree program requirements. If readmitted to the degree program a student may request to revalidate out-of-date course work as described above. Final approval of a request to revalidate out-of-date course work rests with the dean of the Graduate School.

A student must meet additional requirements as determined by the department chairperson and dean of the Graduate School if

1. the examinations are not passed with a B or higher, or
2. evidence of current knowledge is not persuasive, or
3. the original recommendation of the department chairperson and the dean of the Graduate School was that examinations and/or the presentation of evidence were not appropriate.

Any transfer credit used to meet degree requirements is also subject to the six-year time limit.
TRANSFER AND EXTENSION WORK

All off-campus courses offered by Ball State University are considered residence or campus credit.

A Ball State master’s graduate who is working on the superintendent’s license or high school principal’s license (a 60-hour program) may take up to 15 of the 30 hours of graduate credit beyond the master’s degree at other institutions of higher education. Of these 15 hours, a maximum of 8 may be earned in extension.

Candidates for specialist in education degrees may take a maximum of 6 hours of graduate credit beyond the master’s degree at another institution of higher education. The remainder of the 30 hours of graduate credit required for the degree must be earned in residence at Ball State. Upon recommendation of the department chairperson and with the approval of the dean of the Graduate School, work taken for graduate credit at other institutions may be transferred in partial fulfillment of degree requirements under the following conditions:

Transfer of credit will be considered for graduate work taken only at regionally accredited institutions provided the courses meet institutional requirements and are appropriate for the student’s planned and approved program. The research requirement must be taken at Ball State University.

- All work must have been completed within the time limit of six years allowed to complete a master’s degree at Ball State University.
- Only graduate courses in which a student has earned a grade of B or better may be considered for transfer credit. A grade of B- is not transferrable.
- Hours of credit may be transferred, but grades earned in courses taken at another institution do not transfer and are not used in computing the student’s GPA at Ball State University.
- When a graduate course is taken at another university on a credit/no credit or pass/fail option, hours of “credit” or “pass” are not accepted as transferrable unless approved by the appropriate academic unit.
- A master’s degree candidate may transfer as many as 9 semester hours toward a degree program with a total of 44 or fewer semester hours. A master’s degree program that requires a total of 45 or more semester hours may allow a student to transfer as many as 15 semester hours. Departments may set more restrictive limits on the number of transfer hours.
- Credit in courses taken by correspondence is not applicable toward any graduate degree.
- No credits earned on any graduate degree will be eligible for transfer to a Ball State master’s degree.
- No credits earned for a baccalaureate degree may be counted for credit toward a graduate degree at Ball State University.

SPECIAL CASES

Special cases involving policies not covered in this catalog will be submitted to the Graduate Education Committee for consideration and action. In general, the student’s program committee has jurisdiction, but a student may appeal adverse decisions impacting their progress toward a graduate degree. See Error! Reference source not found. for the appeals guidelines.
GRADUATE STUDENT APPEALS PROCESS

I. Rationale

The purpose of this document is to outline procedures for an appeal and to specify recourse available to graduate students who believe that decisions have adversely influenced their progress in graduate school. It is the intent of Ball State University to address and resolve fairly and expeditiously appeals of graduate students. Students should refer to the Code of Student Rights and Responsibilities for more information.

II. Parties in the Appeal

The two parties in the appeal process shall include the appellant and the decision makers representing the unit having made the original adverse decision to be appealed, hereafter referred to as the “decision makers.”

III. Basis for an Appeal

Graduate students may appeal adverse decisions impacting their progress toward a graduate degree. There are three permissible reasons to request an appeal:

- Allegation of violation of approved departmental, collegiate, and/or university policies, including those set forth in the Graduate Catalog.
- Allegation of unfair treatment on the part of the decision makers.
- Allegation of discriminatory treatment on the part of the decision makers.

Grade appeals should be conducted according to the process outlined in Section 6.5 of the Code of Student Rights and Responsibilities.

When an appellant alleges violation of approved departmental, collegiate, or university policies, including those set forth in the Graduate Catalog, then he or she must cite the specific policies that the decision makers failed to follow. When filing an appeal, the appellant must also provide a summary of the way(s) in which the policies were violated and how such violation(s) adversely affected the appellant.

Unfair treatment is defined as decisions that are arbitrary or capricious or are clearly not supported by the evidence. When an appellant alleges unfair treatment on the part of the decision makers, then he or she must cite the specific treatment engaged in by the decision maker. When filing an appeal, the appellant must also provide a summary of the reasons why the decision in question was clearly not merited by the evidence available to the decision makers and must also attach to the summary specific and detailed evidence in support of the reasons listed in the summary.

When a request for reconsideration or appeal is filed that alleges discriminatory treatment on the part of the decision makers, a representative from the Office of University Compliance, shall serve in an advisory capacity to the committee or hearing panel at each level of appeal.

Discriminatory treatment is defined as decisions based upon constitutionally or statutorily prohibited reasons, including unlawful discrimination. When an appellant alleges discriminatory treatment on the part of the decision makers, then he or she must cite the specific treatment engaged in by a decision maker. When requesting an appeal, the appellant must also provide a summary of the prohibited reasons upon which he or she believes the decision was based. These prohibited reasons are contained within the
Ball State University anti-discrimination policy. The appellant must provide a detailed summary of the evidence that supports the appellant’s allegation.

IV. Actions of the Appellant

Appeals must be considered first at the departmental (if no appropriate department, appeal goes directly to the college) and college levels before being forwarded to the Graduate Education Committee (GEC). Graduate students must initiate an appeal by submitting a formal written request for the adverse decision to be reviewed to the department chairperson (or college dean, if appropriate) within 10 working days of the date of the adverse decision.

V. Actions of the Department

If a request for an appeal is determined to have an appropriate claim by the department chairperson in consultation with the graduate program director or designate, then the appellant’s decision maker(s) will reconsider the adverse decision. The appellant’s decision maker(s) will render a decision within 15 working days of the department’s receipt of the request for an appeal. Within five working days of the decision, the outcome will be communicated in writing to the student, the department chairperson, and the program director or designate.

VI. Appeal of Adverse Decisions

A graduate student may appeal an adverse departmental decision to the appropriate college dean’s office. The appellant must submit a formal written request for a college appeal within 10 working days of the date of the adverse department decision. Within 15 working days of the receipt of the appeal in the college dean’s office, the decision of the college dean must be communicated in writing to the appellant, the department chairperson, and the program director or designate.

Following adverse decision at the college level, a graduate student may appeal said decisions by submitting a formal written request to the dean of the Graduate School within 10 working days of the notification of the adverse decision. The dean of the Graduate School will forward the appeal to the Graduate Education Committee (GEC) for resolution.

VII. Actions of the Graduate Education Committee

Upon receipt of a formal appeal, the Executive Committee of the GEC will review the request (See III for required materials). At the discretion of the Executive Committee, a determination will be made regarding the disposition of the request for appeal based only on the permissible reasons outlined in III above. Under all circumstances the Executive Committee will make the final determination of the status of the appeal within 10 working days of its receipt. There are no appeal procedures beyond the appeal to the Executive Committee of GEC.

Before an appeal can be considered, the appellant must show that alleged violations of the department, college, university, or Graduate School are a substantial failure to follow stated policies which negatively impacted academic progress.

If the Executive Committee of GEC determines that the appeal should go forward, it will appoint a Graduate Appeals Panel and establish an appeals file. The stakeholders, including the appellant, at least one department and one college representative, and the members of the Graduate Appeals Panel, must be given at least 10 working days notice of the hearing date, time, and place. The burden of proof is upon the appellant.
VIII. Graduate Appeals Panel

The Graduate Appeals Panel shall consist of three graduate faculty members and two graduate students. A designee of the dean of the Graduate School shall serve as a nonvoting ex officio member.

The members of the panel shall elect one of the three graduate faculty members as the panel chair. The graduate faculty members and graduate students serving on the panel shall not be members of the departments or colleges from which the appeal originates, nor shall they have a demonstrated conflict of interest in regards to the appeal.

IX. Graduate Appeals Hearing

Within 15 working days of receipt of a written appeal by the Graduate Appeals Panel, a hearing will be conducted with the Graduate Appeals Panel, the appellant, witnesses for the appellant, representative(s) of the decision makers, and other witnesses with direct information about the appeal (unless an extension is granted by the Executive Committee of the GEC).

The chairperson of the Graduate Appeals Panel shall conduct the hearing with a view for generating a complete understanding of the circumstances surrounding the appeal. As such, each party shall be granted up to 30 minutes of testimony to present relevant information to the panel. Each party may not question each other directly but may pose questions in writing to the panel chairperson who may disallow the questions. The chairperson may also disallow documentation or witnesses. A testifying witness may only be in the hearing room when he or she is testifying or when the testifying witness is being questioned following rebuttal. The student shall be given the option of presenting first or second. Following the presentations, each party may request an additional five-minute rebuttal. Following the rebuttal, members of the panel may question the parties and witnesses to clarify relevant details. The hearing may not be audiotaped or videotaped. The chair of the Graduate Appeals Panel will designate a secretary from the panel to keep minutes of the proceedings.

Immediately following the hearing, the Graduate Appeals Panel will consider the evidence and judge whether additional information is needed to inform their recommendation. Within five working days of the hearing, the panel must offer a written recommendation to the dean of the Graduate School whether to grant or deny the appeal. Copies of the recommendation must also be provided to the appellant, the decision makers, the dean of the college, and the chairperson of the Graduate Education Committee. The dean of the Graduate School must specify a recommended course of action to the appropriate parties.

X. Attendance at Hearing

In addition to the appealing party, the decision makers, and the members of the Graduate Appeals Panel, the following persons and no others will be permitted to attend the hearing: one current student or one full-time university employee invited by the appellant and one full-time university employee invited by the decision makers to assist the respective parties. Both parties may invite non-testifying witnesses, but said witnesses must be approved in advance by the Graduate Appeals Panel. Other university-affiliated person(s) whose presence is required for the hearing may also be approved by the Graduate Appeals Panel.

XI. Use of Witnesses for the Hearing

The appealing party or the decision makers may call witnesses as necessary. Witnesses must be affiliated with the university. The time used by the witness in her/his initial testimony shall be counted as part of
the allotted time of the person who calls that witness. Time spent answering any questions by the other party or the Graduate Appeals Panel shall not be counted as part of the time allotted to the person who calls the witness.

The Graduate Appeals Panel may call or recall persons to give additional testimony concerning the issues involved in the case.

**XII. Materials Used in Hearing**

The appellant must provide copies of any previous departmental and college rulings. The student must also provide a written statement outlining the basis of the appeal and provide any supporting documentation not to exceed a total of 20 pages.

The decision makers may present materials, not to exceed a total of 20 pages, no less than five days prior to the hearing. All records and decisions generated by the appeal shall be retained in the appeals file which shall reside in the office of the dean of the Graduate School for a period of 10 years after which they shall be shredded.

**XIII. Confidentiality of Appeal Hearing**

The Graduate Student Appeals Panel members shall not retain in their possession any personal files, materials received during the appeal procedure, or notes taken during the meetings of the Graduate Student Appeals Panel. All copies of said materials shall be returned to the Graduate School by the Appeals Panel chairperson and shredded.

No party, Graduate Student Appeals Panel member, or other participant or observer in the appeal procedure shall reveal any facts, documents, or testimony gained through participating in or observing the hearing to any other person, unless required by a court of law to do so or upon the advice of the university’s legal counsel.

**XIV. Additional Procedures**

The chair of the Graduate Student Appeals Panel, in consultation with the chair of the Graduate Education Committee or his/her designee and under specific, compelling facts, may modify procedures or establish additional procedures for the conduct of hearings in order to ensure that they are conducted in a fair and orderly manner provided that such procedures shall not be inconsistent with the procedures stated herein. Whenever possible, all parties must be notified of any modifications and additions to procedures in advance of the hearing.

**XV. Withdrawal of an Appeal**

The appellant may submit a written request to withdraw the appeal at any time. The appeal file will be disposed in accordance to Section XII of this document.

**XVI. Finality**

The decision of the appeal by the dean of the Graduate School will be final. There are no appeals procedures at the university beyond the dean of the Graduate School.
DOUBLE MAJOR
A student may earn a double major by completing a minimum of 15 hours of graduate work in each of the two approved fields of study. In some cases, a “common course” may apply to both majors if prior approval is obtained from the department chairpersons concerned.

SECOND MASTER’S DEGREE
A student may earn a second master’s degree. The requirements for the second master’s degree include a minimum of 30 hours of graduate credit; a major and minor (if any) in different fields of study; submission of a thesis, research paper, or creative project or completion of the appropriate research methodology course(s), depending on specific degree requirements; and the meeting of other master’s degree requirements as specified. No credits earned for the first master’s degree may be transferred to the second.

UNDERGRADUATES AND GRADUATE WORK
Undergraduates may take graduate-level courses under the following conditions:

To earn graduate credit for graduate-level courses, an undergraduate student has
- 12 hours or less of course work remaining to complete the baccalaureate degree, and has a 3.6 grade point average in his or her major, and
- has the approval of the instructor and chairperson of the department offering each course and the dean of the Graduate School.

To earn undergraduate credit for graduate-level courses, an undergraduate student is in the 3/2 program in the Miller College of Business, which allows enrollment in specified graduate courses during the senior year, or has
- achieved senior standing or has 12 hours or less of course work remaining to complete the major, and
- a 3.6 GPA in his or her major, and
- the approval of the instructor and the chairperson of the department offering each course and the dean of the Graduate School.

CHECKLIST FOR MASTER'S DEGREE

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Approved by</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit an application for admission plus one copy of official and complete transcripts of all work taken.</td>
<td>Dean of the Graduate School</td>
<td>Check with your department’s program director.</td>
</tr>
<tr>
<td>Meet with program academic advisor to develop a program of study for your degree.</td>
<td>Department advisor</td>
<td>Before or at the time of registration.</td>
</tr>
<tr>
<td>Submit Topic Approval form along with description of proposed research paper, creative project, or thesis (not required in all programs).</td>
<td>Master’s program committee, dean of the Graduate School</td>
<td>Before you register for research.</td>
</tr>
<tr>
<td>Submit approved thesis, research paper, or creative project.</td>
<td>Master’s program committee, dean of the Graduate School</td>
<td>See Research Plans for required dates.</td>
</tr>
</tbody>
</table>
Apply for degree (graduation). 
Dean of the Graduate School 
The student is eligible to apply for graduation as early as registration for the final course(s) needed for the degree but no later than the end of the fourth week of the semester of expected graduation.

SPECIALIST IN EDUCATION DEGREE (EdS)

The major purpose of the program for the specialist in education (EdS) degree is to provide a plan of advanced study for persons who need an additional year of study beyond the master’s degree. The curricular program allows a greater depth of specialization than is possible at the master’s level, and a plan of study is tailored to meet each candidate’s specific needs. Although the specialist in education degree is self-contained and terminal, certain courses may sometimes be applied to a doctoral program.

SPECIFIC FUNCTIONS

The specific functions of the specialist in education degree program are
- Prepare more effective and competent elementary and secondary classroom teachers.
- Prepare junior college and lower-division college teachers.
- Provide the candidate with the additional preparation needed to fill specialized school positions as superintendents, principals, supervisors, subject specialists, subject consultants, or similar school personnel.

AREA OF SPECIALIZATION

Each candidate must have an area of specialization tailored to personal needs. In planning a candidate’s program of study, the committee also will consider the student’s general and professional education needs.

Areas of specialization currently available are educational psychology (school) and school superintendency.

ADMISSION REQUIREMENTS

To be admitted to graduate study toward a specialist in education degree, a student must meet the following criteria:
- hold an earned master’s degree or equivalent degree from a college or university that is accredited by its regional accrediting association. (A student with a master’s degree not considered the equivalent of those of Ball State University may be admitted under conditions determined by the department concerned and the dean of the Graduate School. Credentials from secondary schools, colleges, universities, and their equivalents outside of the United States are evaluated by the Rinker Center for International Programs Office of International Admissions and the Graduate School.)
- have a cumulative GPA on the master’s degree of at least 3.2 on a scale of 4.0.
- achieve acceptable scores on the Graduate Record Examination (GRE) general test or other approved graduate admissions test for non-native speakers of English.
- have had at least two years of successful teaching experience or appropriate professional experience.
• any additional admission standards established by the academic unit responsible for each specialist in education degree program.

Admission to the university does not guarantee admission to a specific degree program. Students may register for graduate courses leading to the specialist in education degree only upon departmental recommendation for admission.

ADVANCEMENT TO THE DEGREE
The three steps of advancement for the specialist in education degree are the following:
1. The applicant is admitted to graduate study.
2. The student is admitted to candidacy for the degree.
3. The candidate completes degree requirements.

The student is expected to know the requirements for the degree. The responsibility for correct interpretation of the rules rests with the student.

ADMISSION TO THE SPECIALIST IN EDUCATION (EDS) PROGRAM
A candidate will be considered for admission to graduate study leading to the specialist in education degree when he or she has met the entrance requirements and has met the following criteria:
• submitted an application for admission.
• submitted the names of at least five people who may be asked to testify to the candidate’s professional qualifications.
• had institutions previously attended send one transcripts of all previously conducted college work.
• taken the required admission examinations. (Student may arrange with the Counseling Center to take these examinations.)
• been approved by the screening committee for the specialist in education degree as a candidate for the degree.

Transfer Credit
Candidates, with prior consent of the committee, may take up to 6 semester hours of graduate credit in other approved institutions of higher education.

Time Allowed
See Time Allowed for a Master’s or Specialist Degree.

COURSE REQUIREMENTS
The student must complete, including the thesis, at least 30 hours of graduate work beyond the master’s degree. The candidate will not be permitted to carry more than 15 hours of graduate credit in a semester, 6 hours in a summer term, or 12 hours for the combined summer terms. If the student is employed, the course load will be reduced proportionately. At least 24 of the 30 hours required for the specialist in education degree must be taken in residence.

A candidate for the specialist in education degree may, on recommendation of his or her committee, apply up to 9 hours of graduate work taken beyond the master’s degree toward the specialist in education degree if such course work does not violate other degree requirements.

Approved Program of Study
During the first semester of study, specialist in education students are expected to establish an advising committee and to file an approved program of study with the Graduate School. Failure to meet this
Committee
A student will have a committee of three, typically appointed during the first semester of graduate work beyond the master’s degree. The committee, including the committee chairperson, will be appointed by the department chairperson in consultation with the candidate. Until the committee is appointed, the department chairperson or delegated representative will act as the student’s program advisor. The committee, in consultation with the student, will develop the plan of study and guide the thesis. In cooperation with the Graduate School, the committee also will determine if and when the student is qualified to be admitted to candidacy for the degree, and finally, for the awarding of the degree.

Thesis
The thesis (or creative project) must embody the results of a study of some subject directly related to the candidate’s area of specialization. The candidate will register for THES 698, 6 hours of credit. Two copies of the unbound thesis in its final approved form and three copies of a 1,200- to 1,500-word abstract, suitable for publication, must be presented to the Graduate School at least four weeks before the close of the semester or term in which the student is to be certified for graduation. In a term without a commencement ceremony, the approved thesis must be submitted at least two weeks before the close of the term or semester.

Although the department concerned has the responsibility for determining the manual or form to be followed in writing the thesis, such matters as weight of paper, typeface, spacing, and professional typing standards must follow the specifications in How to Write a Term Paper, Graduate Course Paper, Research Paper, Thesis, or Creative Project, available in the Graduate School office and online at www.bsu.edu/gradschool. The thesis will be directed by the student’s three-member committee.

The thesis topic must be approved in advance by the committee and the department chairperson. The student will enroll in THES 698 after obtaining this approval. The student and committee chairperson should check with the Graduate School for more instructions.

Field Experience or Internship
Departments offering programs leading to the specialist in education degree may approve, as an option to the 6-hour thesis requirement, a 6-hour supervised field experience or internship. This option is for students whose program purposes warrant such an alternative. A report written by the candidate and approved by the supervising professor must be filed in the academic unit offering the program. If the internship or field study option is selected, the student’s committee will determine that research competencies are demonstrated.

Final Examination
All candidates will be required to pass final written and oral examinations, administered by the candidate’s committee.

The student’s thesis must be approved by the committee and the department chairperson before final oral and written examinations are taken. The final oral and written examinations must be taken at least two weeks before the close of the semester or term in which the student is to be certified. When the student satisfactorily passes the final oral and written examinations, the committee will file the signed approval form in the Graduate School office. This form is available in the Graduate School office.

Application for Graduation from the Specialist in Education (EdS) Program
All specialist in education degree candidates must file an application for graduation in the Graduate School.
Completion of Specialist in Education (EdS) Degree Requirements
The student will be awarded the specialist in education degree after having

- satisfactorily completed all course requirements with a GPA of at least 3.2.
- satisfactorily passed the final written and oral examinations.
- submitted an acceptable thesis or earned 6 hours of credit in a supervised field experience or internship that has been approved by the candidate’s committee.

SELECTIVE RETENTION
At all times after completing 9 hours of advanced graduate study, a student must maintain a cumulative GPA of at least 3.2 for courses taken toward the specialist in education degree.

Probationary Status
A student will be placed on academic probation if his or her cumulative GPA for courses taken toward the specialist in education degree falls below 3.2 at any time after completion of 9 hours of credit. Probationary status will be removed if a student, in completing the next 9 hours, brings the cumulative GPA to at least a 3.2 for all courses for the specialist in education degree. If probationary status is not removed, a student’s admission to graduate study will be canceled, and additional graduate study will not be possible until he or she has reapplied for regular admission and has been readmitted.

Readmission Procedure
A student seeking readmission must present to the dean of the Graduate School a written request approved by the specialist in education program director and by the chairperson of the major department. The decision to readmit will be made by the dean of the Graduate School.

Readmission Status
Upon readmission, the student will be reinstated to the classification held when graduate study was canceled.

Special Cases
Special cases involving policies not covered in this catalog will be submitted to the Graduate Education Committee for consideration and action. In general, the student’s program committee has jurisdiction, but a student may appeal adverse decisions impacting their progress toward a graduate degree. See Error! Reference source not found. for appeal guidelines.

CHECKLIST FOR THE SPECIALIST IN EDUCATION DEGREE

<table>
<thead>
<tr>
<th>Procedure</th>
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<tbody>
<tr>
<td>Submit an application for admission and one copy of official transcripts. See individual department descriptions for additional application materials required.</td>
<td>Dean of the Graduate School; specialist program director</td>
<td>Check with appropriate specialist program director.</td>
</tr>
<tr>
<td>Arrange with the Counseling Center to take the GRE (general test) or other approved graduate admissions test.</td>
<td>Dean of the Graduate School</td>
<td>Before consideration by the Advanced Graduate Studies Screening Committee (in the Teachers College).</td>
</tr>
</tbody>
</table>
Obtain approval from the Advanced Graduate Studies Screening Committee (in the Teachers College).  
Advanced Graduate Studies Screening Committee (in the Teachers College); dean of the Graduate School  
After all application materials have been submitted.

Establish advisory committee, develop plan of study, and file an approved program with the Graduate School. 
Specialist program committee; dean of the Graduate School  
By the end of the first semester of study.

Apply for degree (graduation). 
Specialist program committee; dean of the Graduate School  
Two semester before graduation but no later than the fourth week of the semester or term in which requirement will be completed.

DOCTORAL DEGREES

Ball State University offers programs leading to the doctor of philosophy degree (PhD), the doctor of education degree (EdD), the doctor of arts degree (DA), the doctor of audiology degree (AuD; see Department of Speech Pathology and Audiology for admission requirements and program information), and the Doctorate in Nursing Practice (DNP; see School of Nursing for admission requirements and program information).

The doctor of philosophy degree is built upon depth of course work in the concentration area. It also requires a strong formal background in traditional research techniques in the same area and may include a foreign language competency. The dissertation is written on any research topic within the subject matter field, extending the bounds of knowledge in that field and making an original contribution to learning. Persons pursuing the doctor of philosophy degree may major in counseling psychology, educational psychology (general, school), educational studies, elementary education, English, environmental science, and human bioenergetics science.

The doctor of education degree is built upon breadth of course work that includes required study in Teachers College. The research competency for this degree is usually statistical in nature. The dissertation characteristically, but not necessarily, contributes to the solution of some important educational problem. Persons pursuing doctor of education degrees may major in adult, higher, and community education; educational administration and supervision; elementary education; science education; and special education.

The doctor of arts degree in music is built upon a depth of course work in a primary field, an area of secondary emphasis usually related to the primary field, and another area of secondary emphasis on college teaching, including a required internship (on the Ball State University campus) and externship (at another college or university). The dissertation may make an original contribution to knowledge in the primary field, but it may also produce and examine innovative teaching materials or methods.

DOCTORAL PROGRAM ADMISSION REQUIREMENTS

To be considered for admission to graduate study toward a doctoral degree, a student must  
• hold an earned baccalaureate or equivalent degree with a cumulative grade point average (GPA) of at least 3.0 on a scale of 4.0 from a college or university accredited by its regional accrediting association. A student with a baccalaureate degree not considered the equivalent to that of Ball
State University may be admitted under conditions to be determined by the department concerned and the dean of the Graduate School. Credentials from international colleges, universities, and their equivalents outside the United States are evaluated by the Rinker Center for International Programs (RCIP) and the Graduate School.

- Some programs may require an earned master’s degree or equivalent for consideration for doctoral study. In such cases applicants must have a cumulative GPA on the master’s degree of at least 3.2 on a scale of 4.0. Please see admission requirements for specific majors found in other areas of this publication or on the departmental Web site.
- have previous institutions attended submit one transcripts of all previous college work, showing graduation from accredited institutions of higher learning with degrees awarded. achieve acceptable scores on the Graduate Record Examination (GRE) general test or other approved graduate admissions tests for non-native speakers of English. GRE scores older than five years normally are not acceptable. meet any additional admission standards established by the academic unit responsible for each doctoral degree program.
- be recommended for admission by the academic unit responsible for the doctoral degree program.

The fulfillment of the minimum Graduate School admission standards listed above does not guarantee admission to a specific degree program.

Students may register for graduate courses leading to the doctoral degree only upon departmental recommendation for admission.

After official admission to a doctoral program, the student has two years in which to begin courses approved by the doctoral program director or the student’s committee. A student who has not taken courses in an approved program during this two-year period will be dropped from the program. The student may reapply for admission.

DOCTORAL PROGRAM DEGREE REQUIREMENTS

Minimum Graduate School doctoral degree requirements:

- Students must complete, including the dissertation, at least 90 hours of graduate work beyond the bachelor’s degree, at least 40 of which, excluding dissertation hours, must be in the major. A minimum of 48 of the required 90 hours must be completed at Ball State University.
- For all doctoral programs, except the doctor of audiology (AuD), a minimum of 10 hours of credit are required for the dissertation. A maximum of 24 dissertation hours may be counted toward a student’s program of study.
- For all doctoral programs, except the doctor of audiology (AuD), students must complete a rigorous research component. Students will be expected to demonstrate competency with research tools applicable to their major areas. Such tools include additional languages, statistical methods, computer science, and research techniques. The required research tools will be determined by the student’s doctoral committee and included on the student’s program of study.

Optional departmental doctoral degree requirements may include, but are not limited to, the following:

- Cognates—candidates may be required to have either two cognate fields consisting of a minimum of 15 hours each or a single cognate field consisting of a minimum of 24 hours. For the 15-hour cognate, 9 hours must be taken at Ball State University; 12 hours of the 24-hour cognate must be taken at Ball State University. Cognates are available in all major fields of study for the master’s, specialist, and doctor degrees. In addition, cognates are offered in composition; couples and family counseling; curriculum, diversity in counseling psychology; educational technology, general foundations of business; general field of education; gifted studies; health psychology; higher
education; history, philosophy, and sociology of education; literary theory; literature; neuropsychology; psychology of human development; psychological assessment; teacher education in higher education; English language arts, theory of computing; research methodology; social justice in counseling psychology; and vocational psychology.

- Candidates in some doctoral programs may be required to take a full-time internship at an approved site.
- Additional Language—If an additional language option is required, the selection is made by the student and the committee and must be approved by the director of the student’s doctoral program. Additional languages typically contain a significant body of available materials in the student’s field of research or are essential to the student’s career objective or to a field of study in which the student will participate as part of the doctoral program. For international students, non-native languages other than English will be accepted at Ball State University if they meet these criteria.

See “Policies Related to Doctoral Degree Completion” on page 39 for specific guidelines concerning additional languages.

Candidates must meet any additional program requirements established by the academic unit responsible for each doctoral degree.

Doctoral Committee

The student’s committee is appointed after the student has been admitted to study for the doctoral degree—usually during the first year of doctoral work. Until the committee has been appointed, the departmental program director will serve as the student’s program advisor.

Upon the recommendation of the departmental program director, the dean of the Graduate School will appoint the student’s committee and the at-large member. The committee will consist of either four or five voting members (approved for regular graduate faculty status), depending on the student’s program of study. All committees will consist of two members from the student’s major area and an at-large member from a field or department not already represented on the committee. The rest of the committee will be structured as follows:

- Program without Cognate(s)—a fourth voting member will be a representative appropriate to the individual student’s program of study.
- Program with Cognate(s)—a voting member will be appointed for each cognate on the individual student’s program of study.

The committee chairperson will represent the student’s primary area of study and must meet the criteria for Dissertation Chair Endorsement in the department of the student’s major.

Please see specific degree program requirements for detailed policies concerning the appointment of doctoral committees.

In consultation with the student, the committee will determine the student’s plan of study and guide the student’s dissertation (at the department’s discretion, separate committees may be appointed for advising/comprehensive examinations and the dissertation stage). The plan of study will be filed in the departmental office of the student’s major area and the Graduate School within one year of the committee appointment. Students who fail to meet this deadline may not be allowed to continue to register for courses.

The committee, in cooperation with the Graduate School, will determine whether the student is qualified to continue study during any of the three stages leading to the doctoral degree.
STAGES OF DOCTORAL COMPLETION

Stage 1. Completion of the Master’s Degree or its Equivalent.
Requires completion with at least a 3.2 cumulative grade point average (GPA) at Ball State University or another university that is accredited by its regional accrediting agency. Students who have already completed a master’s degree equivalent to that awarded by the major department are considered to have completed the first stage of the doctoral program unless the department stipulates otherwise.

Each academic unit that is responsible for a doctoral program will have a procedure to evaluate a student’s progress during this stage. This evaluation will take place no later than the end of the second year to determine if the student is making satisfactory progress, and will be communicated in writing to the student. The evaluation is determined by the major department and could include, but is not limited to, an examination or other appropriate review that must be successfully completed before entering Stage 2.

Stage 2. Admission to Candidacy
Requires completion of all course work and fulfillment of any special departmental requirements (e.g., additional language examinations, if any), the passing of the comprehensive examinations, and approval of the dissertation proposal designate the end of Stage 2 (see below for specific information regarding requirements for the comprehensive examinations). Completion of this stage is referred to as Admission to Candidacy for the degree. Enrollment in credits for dissertation hours is permitted only upon the completion of this stage. If the foregoing requirements are not met, the student may be admitted to candidacy for the doctoral degree on probation, or the privilege of further study leading to the doctoral degree may be denied.

Stage 3. Dissertation Completion
Activities are related to the research, writing, and final oral defense of the dissertation. During this stage, all doctoral candidates must be registered for a minimum of 3 credits each semester, except during the summer terms, until the final approved copies of the dissertation are deposited in the Graduate School, all credit hours for degree conferral have been completed, and the residency requirement has been fulfilled. If not registering for a course or courses, the doctoral candidate will register for three hours of DISS 799. A doctoral candidate in an externally accredited program that requires an internship experience is exempt from continuous enrollment while registered for internship credit.

The culmination of Stage 3 is degree conferral. No later than the first four weeks of the last semester before graduation, students must file an application for graduation with the Graduate School. Applications may be submitted online at www.bsu.edu/gradschool/graduation.

POLICIES RELATED TO DOCTORAL DEGREE COMPLETION

Additional Language Requirements
Students preparing for additional language exams may enroll in the appropriate language courses. Arrangements also may be made with the Department of Modern Languages and Classics for a tutorial class. Either the Graduate School Foreign Language Test (GSFLT) or a reading translation may be taken by the candidate, as determined by the department concerned. Other means of demonstrating appropriate language competence may be permitted, with the approval of the department, the Department of Modern Languages and Classics or other appropriate academic unit, and the dean of the Graduate School. Material for this examination will be selected jointly by the chairperson of the concerned department and the Department of Modern Languages and Classics or other appropriate academic unit. A student may use a language dictionary during the examination and will be permitted a maximum of three attempts to pass the examination for each language.
If the examination facilities for a particular additional language are not available at Ball State University, the student will be examined by a cooperating institution or agency. Additional language proficiency established at other institutions will be accepted by Ball State University if the proficiency is approved by the program director, the chairperson of either the Department of Modern Languages and Classics or other appropriate academic unit, and the dean of the Graduate School. If the student’s committee chairperson has been appointed at the time the request for acceptance of additional language proficiency is being evaluated, the approval of the committee chairperson will also be necessary.

If the additional language option is being followed, students must successfully complete the examination in one language by the time they complete one half of the Ball State University courses prescribed for their degree programs. The examination for the additional language, if any, must be successfully completed before the student will be permitted to take the comprehensive examinations.

**DOC 700**
A doctoral student may enroll in DOC 700 prior to admission to candidacy under special circumstances when not registered for regular graduate course work. DOC 700 is a 0-credit course at a fee of $75 that gives the student all the rights and privileges of a regular student. Registration in DOC 700 requires the approval of the student’s committee chairperson, the departmental doctoral program director, and the dean of the Graduate School. Registration for DOC 700 is limited to any two academic year semesters.

**Residence, Transfer, and Extension Work**
Each doctoral student must fulfill a residency requirement at Ball State University. Unless otherwise specified by a department, the minimum requirement for residency is the completion of at least 15 semester hours in two consecutive semesters of graduate work beyond the master’s degree. Consult the individual department for a description of the residency requirement. A minimum of 48 of the required 90 hours of graduate work must be completed at Ball State University.

The residency encourages the doctoral student to concentrate on course work or research; it permits close collaboration with faculty and students; it fosters a familiarity with the university’s libraries, computing resources, specialized collections, and other unique campus facilities.

**SELECTIVE RETENTION**

**Satisfactory Graduate Grade Point Average (GPA)**
At all times after completing 9 hours of doctoral study, a student must maintain a cumulative GPA of at least 3.2 for courses taken toward the doctoral degree.

**Probationary Status**
A student will be placed on academic probation if his or her cumulative GPA for courses taken toward the doctoral degree falls below 3.2 at any time after completion of 9 hours of credit. Probationary status will be removed if a student, in completing the next 9 hours, brings the cumulative GPA to at least 3.2 for all course work toward the doctoral degree. If probationary status is not removed, a student’s admission to graduate study will be canceled, and additional graduate study will not be possible until the student has reapplied for regular admission and has been readmitted.

**Readmission Procedure**
A student seeking readmission must present to the dean of the Graduate School a written request approved by the doctoral program director and the chairperson of the major department. The decision to readmit will be made by the dean of the Graduate School.
Readmission Status
Upon readmission, the student will be reinstated to the classification held when graduate study was cancelled.

Time Allowed for the Doctoral Degree
It is important that doctoral students be current in their fields of study when they graduate. Therefore, after a student has been admitted to a doctoral program and has taken at least one approved course, all requirements for the degree must be met within a seven-year period. Any courses required for the degree taken before admission to a doctoral program are subject to approval by a student’s doctoral committee. Evidence of current knowledge in the area may be required. Upon the recommendation of the department chairperson and with the approval of the graduate dean, an extension of the time allowed may be granted for one additional year. Extensions are based on academic considerations and are limited. The student requesting the extension of time allowed may be required to repeat preliminary examinations, to take additional course work, or both.

Comprehensive Examinations
Near the time course work is completed, each doctoral degree student will take a comprehensive examination in his or her major and cognate area(s), if applicable. Administration and evaluation of the examinations are the responsibility of the department or, at the discretion of the department, a student’s doctoral committee, hereafter referred to as the examining committee. The examining committee will determine with the student, well in advance of the examination, the course work and other preparation appropriate to the student’s program of study to be represented in the examination. The examinations will be offered each academic semester, the time and place to be determined by the administering department or academic unit.

While the departments and academic units that house each doctoral program will determine the comprehensive examination format that is most appropriate for each respective discipline, all comprehensive examinations must meet the following general guidelines:

- A student must be in good academic standing to sit for the examinations. Good academic standing means that a student cannot be on academic probation and must have a cumulative GPA of at least 3.2.
- The examinations consist of two parts, one written and one oral.
- The written examination will be taken during one week; exceptions must be approved by the program director and the student’s doctoral committee. The oral examination will be taken within three weeks (exclusive of vacation periods) of the written examination.
- The examining committee will be made up of a minimum of four members of the regular graduate faculty and will evaluate the student’s performance. The examining committee will decide if the student’s written examination is of sufficient quality to proceed to the oral examination. All committee members responsible for the oral portion of the examination must participate in the orals unless excused in advance by the graduate dean.
- After completion of the orals, the committee decision for the entire examination will be either “pass” or “fail.” A student may pass the entire examination with one dissenting vote. However, if two or more committee members dissent, the student fails the entire examination.
- The examining committee chairperson will send written notification of the outcome of the comprehensives to the student and the dean of the Graduate School after the completion of the orals.
- In the case of a failed comprehensive examination (see definitions below), the examining committee chairperson’s written notification will include a statement of the reason or reasons for the failure and the time specified before the next examination.
A failed comprehensive examination is defined as one of the following: 1) failure of both the written and oral portions; 2) failure of the written portion if the examining committee determines that the student should not proceed to the orals; or, 3) failure of the oral portion if the examining committee determines that the student was unable to correct deficiencies in the written portion.

A failed comprehensive examination may be repeated only one time. The committee members who administered the first examination will also administer the retest.

A student who fails to pass the second examination is ineligible to continue and is dismissed from the doctoral program.

If more than seven years have elapsed after the student successfully completed the comprehensive examinations, the student must retake the entire examination.

Exceptions to the above guidelines must be approved in advance by the dean of the Graduate School.

Dissertation
The general supervision of the dissertation will be the responsibility of the student’s committee chairperson. When needed, members of the committee will advise the candidate about the dissertation. The comprehensive examinations must be passed and the dissertation topic approved by the committee before the student enrolls for dissertation (DISS 799). The dissertation for a doctor of education degree candidate typically will be a study that will contribute to the solution of some important educational problem. The dissertation for a doctor of philosophy degree candidate will be a research problem that will contribute new knowledge or a new technique. The dissertation for the doctor of arts degree candidate may take the form of an original contribution to new knowledge; the production and use of innovative teaching materials such as the development of new teaching media, the writing of a textbook, or the designing of a curriculum or course of study; or the writing of a series of scholarly papers worthy of publication.

After the dissertation defense the final approved copy, any accompanying materials, and an abstract (350 words in length, suitable for publication) must be filed with the Graduate School electronically at https://apps.bsu.edu/ElectronicThesis. Although the department concerned has the responsibility for determining the manual or form to be followed in writing the dissertation, such matters as typeface, spacing, and professional typing standards must follow the specifications in Graduate School Requirements for Writing a Dissertation, available online at www.bsu.edu/gradschool and in the Graduate School office. Dissertations will be microfilmed through University Microfilms, Inc., Ann Arbor, Michigan, for which service the student will pay a fee, plus a fee of $65 if a copyright is sought. Such fees are to be paid by money order only at the time the student submits the completed dissertation to the Graduate School office.

Final Dissertation Defense
All candidates for the doctoral degree are required to complete successfully an oral defense covering the dissertation, in defensible, final form, administered by their doctoral committee. The time and place of the defense will be announced at least 10 days in advance. All committee members must be supplied a copy of the dissertation well in advance of the scheduled defense to allow adequate time to review the final product. This deadline will be determined by the committee. No defense will be given without all committee members present, unless prior consent is granted by the graduate dean in consultation with the chairperson of the examining committee and the absent committee member.

Two dissenting votes among members of the examining committee are required to fail a candidate. If one member of the examining committee dissents, the dissenting examiner and, if appropriate, the chairperson of the examining committee will file with the dean of the Graduate School a letter detailing the circumstances of the dissent.
If the candidate has failed the defense, the examining committee must prepare a report including reasons for failure and requirements to be met. The examining committee chairperson must file this report with the dean of the Graduate School within seven days from the date of the defense. Permission to defend for a second time must be obtained from the chairperson of the doctoral committee and the dean of the Graduate School. Failure to pass the second defense will result in termination of doctoral study.

Upon passing the final dissertation defense, the candidate will be formally recommended to receive the degree. Candidates must complete all degree requirements at least four weeks before the end of the semester or term in which they are certified for graduation. In a term that does not end with a commencement ceremony, all degree requirements must be completed at least two weeks before the close of the term.

SPECIAL CASES

Special cases involving policies not covered in this catalog will be submitted to the Graduate Education Committee for consideration and action. In general, the student’s program committee has jurisdiction, but a student may appeal adverse decisions impacting their progress toward a graduate degree. See the “Graduate Student Appeals Process” on page 27 for the guidelines for appeals.

CHECKLIST FOR DOCTORAL DEGREE

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Approved by</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit an application for admission and one copy of official transcripts.</td>
<td>Dean of the Graduate School; Departmental doctoral program director</td>
<td>Check with appropriate program director.</td>
</tr>
<tr>
<td>Obtain approval from the department doctoral screening committee for admission.</td>
<td>Departmental doctoral screening committee, Dean of the Graduate School</td>
<td>After all application materials have been submitted.</td>
</tr>
<tr>
<td>Establish doctoral committee and submit approved plan of study.</td>
<td>Doctoral program director and committee, Dean of the Graduate School</td>
<td>Within one year of beginning course work.</td>
</tr>
<tr>
<td>Complete foreign language exam (if required).</td>
<td>Departmental doctoral committee</td>
<td>By the time half of required program course work has been completed.</td>
</tr>
<tr>
<td>Event</td>
<td>Responsible Body</td>
<td>Requirement</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Complete comprehensive exams.</td>
<td>Departmental doctoral committee</td>
<td>Near completion of course work.</td>
</tr>
<tr>
<td>Apply for admission to candidacy.</td>
<td>Departmental program committee, Dean of the Graduate School</td>
<td>Must have completed a minimum of 30 hours at Ball State, passed comprehensive exam, submitted an approved plan for the proposed dissertation, and passed any foreign language exam(s) before applying.</td>
</tr>
<tr>
<td>Apply for degree (graduation).</td>
<td>Dean of the Graduate School</td>
<td>No later than the end of the first four weeks of the last semester before graduation.</td>
</tr>
<tr>
<td>Complete final defense of the dissertation.</td>
<td>Doctoral program committee</td>
<td>At least six weeks before the end of the semester of term to be certified for graduation.</td>
</tr>
<tr>
<td>Submit final draft of dissertation.</td>
<td>Doctoral program committee, Dean of the Graduate School</td>
<td>At least four weeks before the end of the semester or term to be certified for graduation.</td>
</tr>
</tbody>
</table>

**FEES AND EXPENSES**

**FEES**

An email notice will be sent to the student’s BSU email account from The Office of Bursar and Loan Administration when their e-bill is created each month. To view or pay a student’s account online from their checking or savings account, or to print a paper copy of their e-bill, students should go to Cardinal QuickPay at www.bsu.edu/quickpay. A Ball State email account is required to access Cardinal QuickPay. It is recommended students visit their Cardinal QuickPay account on a regular basis for current account information.

Payments are due on the 1st of each month. For a complete schedule of fees and due dates go to www.bsu.edu/bursar. The Ball State University Board of Trustees reserves the right to change the fees and other charges for any semester or term.

**DESCRIPTION OF FEES**

Fee assessment is determined by the number of credit hours for which students enroll. An additional fee per credit hour is assessed all graduate students on courses taken for any type of credit. In addition, special fees and charges are assessed for certain courses and services. A complete listing of fees and other charges is available at www.bsu.edu/bursar.
RESIDENCY DETERMINATION

In-State or Out-of-State Student

Because Ball State University is financially supported by the Indiana legislature, resident students pay less in fees than out-of-state students. Residency status, as determined by Office of the Bursar and Loan Administration in accordance with rules adopted by the Board of Trustees, is subject to change. A student’s status depends primarily upon the length of time they have lived in Indiana for purposes other than attending a college or university. A minimum residency of one year is required for independent students (not receiving financial assistance or being claimed as dependents by parents or legal guardians on their income tax forms).

Copies of the regulations, the Application for Nonresident Fee Exemption, and other information are available at www.bsu.edu/bursar.

WITHDRAWAL PROCEDURES

To withdraw from the university, students must contact the Office of the Student Ombudsperson, Administration Building, Room 238. Discontinuance or abandonment of classes does not constitute an official withdrawal from all classes. Any refunds (i.e. financial aid, registration fees) are based on the date when initial contact is made with the Office of the Student Ombudsperson and the appropriate refund schedule. Any refund related to fees paid for on campus housing and dining will be administered based on the terms of the contract.

EDUCATIONAL SERVICES

Center for Medical Education

Persons interested in the study of medicine must submit an application for admission directly to the Admissions Office, Indiana University School of Medicine, Indianapolis, IN 46202. All candidates accepted may indicate where they prefer to begin their medical education. Final assignment of students to the Muncie center (known formally as the Indiana University School of Medicine-Muncie) will be made through the admissions office of the Indiana University School of Medicine. Medical students so assigned then will be registered at Ball State University as special graduate students.

The curriculum of the Indiana University School of Medicine is built around nine competencies, of which clinical skills and the information base of medicine are two. Students must master all nine competencies at level one before entering the third year of study, and must master them at level two to graduate; three competencies must be mastered at level three.

The first year of study consists of the basic science courses, which are taught as blocks; each block focuses upon only a single discipline. The first year medical school blocks are histology; gross anatomy; neuroscience; biochemistry and molecular biology; physiology; and microbiology and immunology. One morning per week is devoted to the doctor–patient relationship. Some classes also include clinical correlation sessions taught by local physicians. Year two follows a more traditional schedule and is composed of introduction to clinical medicine; general and systemic pathology; medical genetics; biostatistics; and pharmacology. Second-year students also participate in autopsy review sessions and have clinical experiences available to them through physician shadowing. Summer externship experiences at Ball Memorial Hospital are available for interested students.

A medical student taking graduate-level basic medical science courses toward a degree in medicine from Indiana University can at the same time earn a master’s degree from Ball State University in another
subject. Interested students must file a graduate application in the Ball State Graduate School and meet regular admission requirements (see pages 11).

After completing the second year curriculum, medical students proceed to the Medical Center at Indianapolis for the third year. There are several offerings at Ball Memorial Hospital in the elective portion of the final year of the medical program. The medical curriculum uses the resources of a number of departments. The courses specifically designed for medical students are listed under the Center for Medical Education as well as under the appropriate departments.

**Computing Services**

University Computing Services (UCS) provides leadership and support in administrative computing, application support, networking, operations, and security for the Ball State campus at large. Championing the goals of the university through tried and true approaches to technology is UCS’ commitment to fulfilling the computing needs of the university community.

Our professionals provide technical support while working to promote reliability and efficiency that is critical to all aspects of university life including e-mail, network infrastructure, server support, securing of university data, and partnering with faculty, staff and students to enrich university life.

UCS takes pride in collaborating with offices across campus to support their business initiatives and processes while providing vital behind the scenes support that meets university strategic goals and objectives.

For more information, visit the University Computing Services Web site at [www.bsu.edu/ucs](http://www.bsu.edu/ucs) or its office in RB 237, or call 765-285-8111.

**Digital Data Services**

Digital Data Services provides Ball State faculty and staff with digital output of traditional media sources. This service provides an entry-level point of departure into the use of technology in the classroom and in the systems that support classroom activities. We take physical documents and convert them to digital form, provide academic evaluation and research support through the use of an optical scanner, and provide assistance in configuring media for use on the world-wide Web. For more information, visit [www.bsu.edu/ucs/scanning](http://www.bsu.edu/ucs/scanning).

**Unified Technology Support**

Unified Technology Support (UTS) has brought together technology support professionals from across campus with the goal of providing outstanding technology support for the students, faculty, and staff of Ball State University. We focus on three key things – Help, Fix, and Learn. We will help students fix a problem or learn how to use a new application. We also provide information and guidance to help students use the vast technology resources that they will find across campus.

Through a wide range of services, UTS will provide dynamic, energetic, collaborative and enabling environment that encourages the use of emerging technologies and the development of learner centered content and tools. Services and support provided by UTS are available in Bracken Library (1st floor, west end) with one-on-on support personnel trained to help all BSU clients address their technology needs and maximize the resources available while they pursue their academic goals. For more information, visit [www.bsu.edu/uts](http://www.bsu.edu/uts).

**University Teleplex**

The Teleplex encompasses campus technology support for teaching and serves graduate students both on-campus and off-campus in a variety of ways. The Teleplex produces and televises courses making it
possible for graduate students to take Ball State courses at off-campus locations. On-campus graduate students have access to equipment for production through the Teleplex Equipment Checkout, 765-285-5373.

Through departmental chairpersons, graduate students with assigned teaching responsibilities have access to the Teleplex, multimedia development, and delivery support. For more information on the multimedia development services, call Teleplex Production Video Services at 765-285-1898. For more details please visit our website: https://cms.bsu.edu/About/AdministrativeOffices/Teleplex.aspx.

**RESEARCH FACILITIES**

University Libraries
The mission of the Ball State University Libraries is to serve users by providing access to resources intended to satisfy informational needs related to and consistent with the university’s teaching curriculum, research mission, and service programs.

The University Libraries, comprised of the Alexander M. Bracken Library and the Architecture and Science-Health Science branch libraries, offer convenient access to more than 1.5 million books, periodicals, digital resources, DVDs, CDs, microforms, software, government publications, maps, manuscripts, music scores, archival records, and electronic databases.

Bracken Library, the main library on campus, is open more than 120 hours weekly during academic semesters. The library’s arrangement into separate service, collection, and study areas facilitate access to information sources. Library personnel are available in each service area to assist library users.

CardCat, the Ball State University Libraries’ Web-based catalog of resources, is accessible via the Libraries’ home page at cms.bsu.edu/Academics/Libraries.aspx

The home page also provides access to indexes of journal articles including full-text databases, course reserves, online tutorials, interlibrary loan, library information and much more. Assistance finding and using these resources is available at the Reference Desk, Bracken Library, First Floor West, 765-285-1101, or via e-mail and live chat. Extended individual help, featuring one-on-one reference appointments with research librarians, is also available.

Digital equipment, including laptops, data projectors, camcorders and video cameras, webcams, power cords and adapters, and more are available for use from Educational Resources. Bracken Library features multimedia workstations for video editing, GIS, and other intensive computing applications. Wireless connectivity is available throughout. Scanners, a large-format printer, and standard-format color and B&W printers and photocopiers are available. Bracken Library hosts the Bookmark Café, featuring hot and cold beverages and light snacks.

The Schwartz Complex in Bracken Library offers a viewing room and learning pod room which connect to a variety of digital media assets, provide access to international news broadcasts, and are available for group projects. In addition, group study rooms are available for use throughout Bracken Library and may be reserved online.

A limited number of scholar carrels are available for use by graduate students in Bracken Library. Applications are available online at the Libraries’ Web site. Preference is given to full-time doctoral candidates working on their dissertations.
Follow the University Libraries on Facebook for the latest buzz in Bracken Library and the branches.

**Sponsored Programs Office**
The Sponsored Programs Office (SPO), the service unit of Ball State University, is responsible for assisting those in their pursuit of grant funding. SPO services include: resources in identifying potential funding opportunities; guidance (together with a student’s faculty mentor) in developing proposal components; and submission of grant applications to agencies or sponsors.

SPO also coordinates ASPiRE, the Internal Grants program. ASPiRE student awards fund supplies and expenses associated with research, creative projects, dissertations, or theses. ASPiRE also supports travel to professional meetings for invited presentations or performances.

An annual campus Student Symposium offers students the opportunity to present their research or creative projects in poster sessions during a gala campus event.

Graduate students are invited to visit the Sponsored Programs Office, where a friendly staff is eager to answer questions and to brainstorm about funding possibilities. Explore SPO programs and services at www.bsu.edu/spo.

**Applied Research Institute**
The Applied Research Institute, operated by the Center for Information and Communication Sciences, supports applied research endeavors on information and communication issues. Research projects, many of which are cross-disciplinary, are conducted within the institute and in conjunction with the center’s faculty, graduate students, affiliated programs, and industry.

The institute manages the four laboratories in the center featuring state-of-the-art information and communication systems devoted respectively to voice, data, video and imaging, and wireless applications. The institute also oversees research projects based on campus, at various locations throughout the state of Indiana, the nation, and other countries. Students in the center’s Master of Science in Information and Communication Sciences program use the laboratories and projects extensively in their professional preparation.

Faculty and graduate students from any discipline are invited to explore mutual research interests in this field with the director of the Applied Research Institute, Robert Yadon, or the center’s director, Steve Jones, Room 221, Ball Communication Building.

**Human Performance Laboratory**
The Human Performance Laboratory (HPL) at Ball State University was founded in 1965 and has a rich history of applied exercise physiology research and training graduate students at the master’s and doctoral level. The HPL has been involved in a variety of applied research topics since its inception including carbohydrate metabolism, heat stress, fluid balance, over-training and tapering in athletes. This applied research continues today with the focus on limits of human performance and clinical investigations of aging, space flight, bed rest, children, and metabolic health to name a few. The majority of the research has been supported by external funding sources (National Institutes of Health, National Aeronautics and Space Administration, American Heart Association, industry and private agencies) and has resulted in more than 500 scientific publications.

Graduate programs include master’s degrees in Exercise Science (MS) and (Clinical) Exercise Physiology (MA or MS), and a PhD program in Human Bioenergetics. The Exercise Physiology and Human
Bioenergetics degrees are research intensive, and students receive hands-on training for all phases of the research process. The Clinical Exercise Physiology degree involves working in a community-based adult physical fitness program, laboratory testing and research, and cardiac, pulmonary, and oncology rehabilitation programs at Ball Memorial Hospital. In all cases, graduate student training in the HPL involves working closely with faculty and other graduate students to accomplish the goals of the student, the program, and the laboratory.

Neuropsychology Laboratory
The Neuropsychology Laboratory was established in 1984 as a research, teaching, and clinically facility. The Clinic serves the larger community in assessing, diagnosis, and remedial planning for adults and children with potential neurologic disorders. Research consists of understanding brain mechanisms responsible for simple and complex patterns of sensory motor and intellectual dysfunction. This includes memory, emotional, cognitive disorders, and various childhood illnesses.

The Neuropsychology Laboratory also provides support for neuropsychology courses and the Certificate Program in Clinical Neuropsychology and provides specialization training in neuropsychology online. The laboratory is also a site for internships in the school psychology doctoral program. This training takes the form of service to the community—staff members see patients referred by medical practitioners, public schools, and other agencies.

Raymond S. Dean, ABPP, FACP, George and Frances Ball Distinguished Professor of Neuropsychology, is director of the Neuropsychology Laboratory at Teachers College, Rooms 903–905, 765-285-2289.

Outdoor Laboratories
The Ball State University Field Station and Center for Environmental Education (FSEEC) collectively manages approximately 420 acres in the five field areas known as Christy Woods, the Cooper/Skinner Field Area, Ginn Woods, Hults Environmental Learning Center, and the Donald E. Miller Wildlife Area. Collectively, these outdoor laboratories include most habitat types found in East Central Indiana and provide excellent opportunities for the study of ecosystem processes.

Christy Woods, in the western part of campus, is an 18-acre tract that includes a forest, native plant gardens, and greenhouse facilities. Ginn Woods, a 160-acre nature preserve in northern Delaware County, is the only old-growth forest of comparable size left in East Central Indiana and the second largest old-growth forest in Indiana. As such, it has exceptional value as an educational resource and a research forest.

The Hults Environmental Learning Center, near Albany, Indiana, serves as an outdoor classroom and research facility. Most projects on this property deal with sustainable land-use and energy. The Miller Wildlife Area is a 16-acre parcel within the city limits of Muncie, that contains a flood-plain forest and a remnant oxbow of the White River. The Cooper/Skinner Field Area is a 130-plus acre property that contains forest, prairie, and wetlands. This property is used extensively for educational and research purposes and features a straw-bale building powered by a wind turbine and photovoltaic panels.

Ball State Weather Station
The Ball State University Weather Station, operated by the Department of Geography, consists of an onsite meteorological station, a National Oceanic and Atmospheric Administrator (NOAA) Cooperative Climate Substation, and a meteorology library. The Ball State Weather Station provides students with education and training experiences in the area of weather data collection and analysis.
Primary operations of the weather station include the recording of weather observations, compiling and summarizing weather data, communicating severe weather information to the public, and providing short- and long-range weather forecasts. Data collected and archived by the weather station are used for reference by business and local government and for research purposes by both students and faculty.

Public Health Entomology Laboratory
The Ball State Public Health Entomology Laboratory (PHEL) comprises two research laboratories (rooms CP 148 and CP 149), a small library, and offices of the director Robert Pinger (room CP 189), in the Cooper Science Building. Administered under the Department of Physiology and Health Science, the laboratory is equipped for studying insects and other arthropods affecting public health. The laboratory is known in Indiana and the northcentral United States for its past accomplishments in mosquito research and its current research on ticks and tick-borne diseases.

The PHEL provides opportunities for graduate students to participate in established research programs and to pursue research projects of their own design. Laboratory operations are supported by internal and external funding. Visit the PHEL Web site at www.bsu.edu/physiology-health/entomology_lab.

STUDENT SERVICES
Alumni Association
The Ball State University Alumni Association provides services and administers events for alumni and the university. The Alumni Association attempts to acquaint alumni with the university’s ideals and objectives and assists in developing and maintaining life-long relationships. The Ball State Alumni Association is “to be an advocate for alumni, to enrich their lives, and to involve them with Ball State University.” It is governed by the Alumni Council, which consists of volunteer representatives from the alumni population. All representatives and officers are nominated and elected.

There is no annual fee to join, but alumni who contribute to the university, via the Ball State University Foundation, become active members of the Alumni Association. All alumni households receive The Ball State Alumnus, the association’s official publication. Alumni are also eligible to utilize the many services provided by the association, which offers Ball State affinity license plates, career assistance, insurance programs, Cardinal Alumni Retail Discount (CARD), affinity credit cards, Cardinal Corner, Inc., and scholarship opportunities. To learn more, go to www.bsu.edu/alumni.

Arts, Entertainment, and Recreation
The John R. Emens College-Community Auditorium hosts major symphonies, Broadway plays, ballets, and a variety of other events. The Muncie Symphony Orchestra presents an annual series of concerts available to students, faculty, and community. In addition to the dramatic and musical productions presented by the annual Artist Series and Muncie Symphony Series, special attractions, lectures, and convocations are scheduled. Programs on the Emens Artist Series and Muncie Symphony Series are open to regularly enrolled students without charge; for others, there is a nominal admission charge. Information about tickets and programs is available at the Emens Auditorium ticket office and online at www.bsu.edu/emens.

School of Music recitals and concerts by faculty and student soloists and groups, which are scheduled frequently, are open to the public. The Department of Theatre and Dance presents dance concerts and dramatic productions during the academic year and an outdoor Shakespearean production during the summer. Many departments schedule programs, visiting artists, speakers, debates, and group and panel discussions or reviews.
The Ball State University Museum of Art is one of the finest university museums in the United States. Its collections and exhibitions are accorded international recognition. The program of exhibitions allows the students and the community to be aware of varied and current trends in art. It is located on the Web at www.bsu.edu/artmuseum.

The University Planetarium includes a 77-seat sky chamber and an exhibit hall. The star projector, still-image projectors, and video projectors are fully computer-automated. The planetarium serves approximately 2,000 astronomy students each year and presents educational programs that target Indiana state academic standards offered to visiting elementary and secondary school students. In addition, free programs are available to the public on selected weekends during the academic year. The observatory serves both a research and teaching mission. Two of the five telescopes are equipped with digital cameras used for research projects by both faculty and students. The observatory is open for public viewing of current sky phenomena after the planetarium presentations.

Ball State University fields varsity teams in 19 sports and is a member of the Mid-American Conference and the National Collegiate Athletic Association (NCAA), Football Bowl Subdivision; the men’s volleyball program is a member of the Midwest Intercollegiate Volleyball Association (MIVA). The facilities of the university are also available for individual and group activities. The Ball Gymnasium and Health and Physical Activity Complex contains courts for basketball, handball, volleyball, tennis, and badminton and facilities for other activities. The Lewellen Aquatic Center and the swimming pool at the Ball Gymnasium, as well as the Field Sports Building, outdoor tennis courts, and other field sports areas, are available for student use at regularly scheduled times. There is no fee for regularly scheduled athletic events or university convocations.

Ball State Bookstore
All regular graduate assistants and doctoral assistants are entitled to a 10-percent discount on purchases made at the Ball State Bookstore. To be eligible for the discount, a student must present his or her identification card, schedule, and contract at the time of purchase. The discount is not transferable to anyone other than the card bearer and does not apply to sale items, electronics, and consumables. Certain other restrictions may apply.

Ball State Federal Credit Union
University employees, alumni, students, and their relatives may take advantage of any of the financial services offered by the Ball State Federal Credit Union, 2900 N. Oakwood Avenue, and 1525 W. University Avenue, Muncie, Indiana.

Counseling Center
The Counseling Center offers a wide range of services designed to help students make career decisions, learn more effectively, and remove barriers to their personal and social development. The services include group counseling, individual counseling, outreach programs and activities, consultation, and training. The Counseling Center also houses the Office of Testing Programs that administers most national testing programs, including but not limited to, the Professional Assessments for Beginning Teachers (Praxis), Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), Law School Admission Test (LSAT), and the Medical College Admission Test (MCAT).

Disabled Student Development
The Office of Disabled Student Development (DSD) coordinates university efforts to provide access and opportunities to students with disabilities, including students who have disabilities that are nonapparent. Students wanting to learn more about services or accommodations available to those with a documented
disability should contact the DSD office. Advance notice in planning services is strongly encouraged. Visit DSD's website at www.bsu.edu/dsd, or contact the office by phone at 765-285-5293, TDD 765-285-2206, or e-mail dsd@bsu.edu.

Health Services
The Amelia T. Wood Health Center offers preventive health care and medical treatment for students enrolled at Ball State University. Health Center services include the treatment of illnesses, injuries, and limited disabilities that require outpatient care, limited gynecological services, pharmacy, physical therapy, and health education. The Health Center does not attempt to replace a student’s private physician or assume total responsibility for a student’s medical needs.

The center is staffed with a medical team of licensed physicians, registered nurses, licensed practical nurses, medical assistants, certified physical therapists, and athletic trainers. The center is open for patient care from 8 a.m. to 4:30 p.m. Monday, Thursday, and Friday and 9 a.m. to 6:30 p.m. Tuesday and Wednesday during the school year. Summer hours are 7:30 a.m. to 3:30 p.m. Monday through Friday. Students requiring emergency medical service should call 911. For nonemergency after-hours care students may go to Ball Memorial Hospital Emergency Room.

Graduate students attending classes on campus must meet certain immunization requirements. International students must also be tested for tuberculosis in the United States. More details about these requirements can be found at www.bsu.edu/healthcenter.

All students enrolled in 7 or more hours are required to pay the mandatory health fee each semester. Students enrolled in fewer than 7 hours have the option of paying the fee or paying on a cost per visit basis. If a student wishes to pay the fee, he or she must contact the Office of Bursar and Loan Administration to arrange for this prior to the end of the drop-add period. Students are responsible for charges incurred for services from outside providers, i.e., emergency room, laboratory tests, x-rays, referrals, etc. Pharmacy services are provided onsite at a cost competitive with local pharmacies. Students may pay by cash or credit card or charging to their university fees bill.

Housing
University residence halls and apartments house approximately 7,100 students. There are two residence halls—Elliott Hall and Shively Hall—that offer floors for students over the age of 21. Elliott Hall is not open during break periods, whereas Shively is open during the semester and holiday breaks. Regular double rooms and a very limited number of single rooms are available. Residence hall contracts are for the entire academic year and include both room and meals.

Information and applications for residence halls are available from Housing and Residence Life, LA N-10, Ball State University, Muncie, IN 47306, and online at www.bsu.edu/housing.

University apartments are available in the Anthony and Scheidler complexes. Graduate students and undergraduate students living with spouses and/or dependent children have first priority for apartments. There are a limited number of furnished apartments. These apartment units provide an affordable living option for many graduate students.

Information and applications for the university apartments are available from the Ball State University Apartments Office, 3460 N. Tillotson, Muncie, IN 47304, and online at www.bsu.edu/housing/ua.
Career Center
The Career Center offers career advising, education and support for each Ball State University student and graduate to develop a clear career objective, obtain relevant experience, and learn the skills necessary to conduct a successful professional job search.

The Career Center can help with career assessment, exploration of career options, preparation for the job search, curriculum vitae development, and resume writing. Video-recorded practice interviews and individual career advising are available by appointment. The center has information about all on-campus part-time student employment vacancies some off-campus student jobs and internships. The center’s Career and Experiential Learning Lab maintains a specialized resource collection that includes up-to-date materials on careers, salaries, the job-search process, and graduate and professional school test preparation.

Recruitment programs include the online Cardinal Link system, career fairs, and on-campus interviews with recruiters from business, industry, government, and educational organizations seeking graduates at all degree levels. For more information, call the Career Center at 765-285-1522; visit the office in Lucina 220; or visit the Web site at www.bsu.edu/careers.

Speech-Language and Audiology Clinics
Testing and therapy services related to speech, language, and hearing problems are the specialty of the Ball State Speech-Language and Audiology Clinics, operated by the Department of Speech Pathology and Audiology. More information can be obtained by visiting or calling the clinic office in AC 102, 765-285-8160 or by visiting the Web site at www.bsu.edu/spaa.

Student Center
Student life starts at the recently renovated L.A. Pittenger Student Center, located at the intersection of McKinley and University avenues, which is host to a variety of entertainment events and houses a variety of services and offices for the Ball State community. The new food court features a full service Starbucks and Taco Bell and display cooking with Chef Jason Reynolds. A grille, soup/salad bar and convenience store items are also offered. Cardinal Lanes offer bowling and billiards. Other services include: ATM, barbershop, computer lab, post office, meeting rooms for groups from 5 – 500, and a 25 room hotel.

Offices dedicated to advising and serving students and student organizations include: Student Life, Campus Programs, and Disabled Student Development. The Student Center houses a multitude of major student organizations serving the campus community, such as: Student Government Association (SGA); Black Student Association (BSA); Late Nite (LN); Student Voluntary Services (SVS); Spectrum; University Program Board (UPB); Interfraternity Council (IFC); National Pan-Hellenic Council (NHPC); Panhellenic Council (PHC); and others.

University Catering is located on the second floor and can accommodate all your food service needs. Other offices located in the Student Center include: Parking Services; Student Legal Services, Student Rights and Community Standards; and Rinker Center for International Programs.
www.bsu.edu/studentcenter

Vocational Rehabilitation Offices
The Vocational Rehabilitation Division of the state of Indiana provides a program of specific services to help disabled persons of working age become employable or more suitably employed. Students may apply for funds at their local vocational rehabilitation offices of at the Muncie office. Call 765-282-9863 for more information.
APPENDIX

ACCREDITATION AND PROFESSIONAL MEMBERSHIPS

Ball State University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

The university is approved by the American Association of University Women and the American Speech-Language Hearing Association.

The university holds memberships in many professional organizations, including the American Association of State Colleges and Universities, American Council on Education, American Association of Colleges for Teacher Education, Council of Graduate Schools in the United States, College Entrance Examination Board, Council for Advancement and Support of Education, National University Continuing Education Association, National Association of State Universities and Land-Grant Colleges, National Association of Student Personnel Administrators, American College Personnel Association.

Architecture, Landscape Architecture, and Planning Accreditation
In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure in architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master’s degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree. In the Ball State College of Architecture and Planning, the professional degree programs of the Department of Architecture are fully accredited by the National Architectural Accrediting Board (NAAB). The professional degree programs of the Department of Landscape Architecture are fully accredited by the Landscape Architecture Accrediting Board (LAAB). The professional programs of the Department of Urban Planning are fully accredited by the Planning Accreditation Board (PAB).

Speech-Language Pathology and Audiology Accreditation
The master of arts in speech-language pathology and the doctor of audiology are accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association.

Business and Accounting Accreditation
Both undergraduate and graduate programs in the Miller College of Business are fully accredited by the AACSB International. The accounting program, both undergraduate and graduate, holds separate AACSB accreditation.

Fine Arts Accreditation
Programs in the College of Fine Arts are accredited by the National Association of Schools of Art and Design, the National Association of Schools of Music, and the National Association of Schools of Theatre. The Museum of Art is accredited by the American Association of Museums. The Department of Theatre and Dance is accredited by the National Association of School of Dance.
Family and Consumer Sciences Accreditation
In the Department of Family and Consumer Sciences, the dietetic internship is accredited by the Commission on Accreditation for Dietetic Education of the American Dietetic Association. The Department of Family and Consumer Sciences Child Study Center is accredited by the National Academy of Early Childhood Programs.

Nursing and Medical Education Accreditation
The Muncie Center for Medical Education is accredited as part of the Indiana University School of Medicine by the Liaison Committee on Medical Education, Association of American Medical Colleges. The programs in the School of Nursing are accredited by the Indiana State Board of Nursing and the National Leage for Nursing Accrediting Commission on Collegiate Nursing Education.

Journalism, Mass Communication, and Public Relations Accreditation
The Department of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communications. The public relations program in the Department of Journalism is certified by the Public Relations Society of America.

Educator Preparation, School Psychology, and Counseling Accreditation
All advanced education and initial licensing programs are accredited by the Office of Educator Licensing & Development, the Indiana Department of Education, and the National Council for Accreditation of Teacher Education (NCATE). The programs in school psychology are accredited by the National Association of School Psychologists. The doctor of philosophy degree with a major in counseling psychology and the doctor of philosophy degree with a major in school psychology are accredited by the American Psychological Association. The Council for Accreditation of Counseling and Related Educational Programs (CACREP) has conferred accreditation upon the school counseling and the clinical mental health counseling tracks. The rehabilitation counseling is accredited by the Counsel on Rehabilitation Education (CORE). The Counseling Center is accredited by the International Association of Counseling Services, and its internship training program is accredited by the American Psychological Association.

Other
The program in medical technology offered through the Biology department is accredited by the National Accreditation Agency for Clinical Life Sciences.

The associate degree program in radiography, offered through the Department of Physiology and Health Science, is accredited by the Joint Review Committee on Education in Radiologic Technology.

The Legal Studies Program offered through the political science department is approved by the American Bar Association.

The Department of Social Work is accredited by the commission on Standards and Accreditation of the Council on Social Work Education.

The curriculum of the Chemistry Department is certified by the Committee on Professional Training of the American Chemistry Society.

Teaching major programs in the College of Sciences and Humanities that have been awarded national recognition are: English as a New Language, recognized by Teaching English to Speakers of Other Languages (TESOL); Health Education, recognized by the American Association for Health Education; Social Studies Education, recognized by the National Council for Social Studies; Mathematics Education,
recognized by the National Council of Teachers of Mathematics; and, Language Arts Education, recognized by the National Council of Teachers of English.
INTERDEPARTMENTAL PROGRAMS

CERTIFICATE IN INSTITUTIONAL RESEARCH

Curriculum criteria
1. No transfer credit will be allowed.
2. The certificate program must be earned on campus.
3. Only members of the graduate faculty will teach courses included in the certificate program.
4. Students must achieve a 3.0 GPA in the certificate program to receive a certificate.
5. No course with a grade below a 2.0 can be counted toward a graduate certificate.
6. The student’s official transcript shall contain not only the listing of courses taken in this program, but also will indicate successful completion of the program.
7. Students will receive a printed certificate acknowledging their completion of the program.

Admission requirements
1. Applicants pursuing only a certificate program will be admitted as non-degree students.
2. Applicants must complete an application form from the Office of Graduate Admissions and provide two copies of official transcripts from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work.
3. Standards for admission
   a. Hold an earned bachelor’s degree from a college or university that is accredited by its regional association.
   b. Satisfy one of the following:
      • An undergraduate cumulative GPA of at least 2.5 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate, is used to calculate the GPA).
      • A cumulative GPA of at least 2.75 on a 4.0 scale in the latter half of the baccalaureate.
   c. Students not meeting these criteria may be considered for admission at the discretion of the certificate program director.
4. Students who are currently enrolled in the Graduate School and who wish to pursue this certificate program must apply for admission to the program before 6 of the credits are completed.
5. Graduate students enrolled only in a certificate program may not hold a graduate assistantship.
6. Students may be enrolled full-time or part-time in the certificate program.
7. Students who are currently enrolled in a graduate program of study leading to a degree who wish simultaneously to pursue this graduate certificate program must inform the Graduate School of their intent to seek the graduate certificate.
8. Completion of a graduate certificate does not guarantee admission into a graduate degree program.

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SOC  600  Soc Inquiry (3)  3
Statistics, 3 hours from
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       642  Interim Stat (3)
SOC  682  Statistics (3)
       684  Data Analys (3)  3
Electives, 3 hours from
EDPSY  645  Nonpar Stats (3)
       646  Tests Meas (3)
EDSTU  650  Int Qual Rsh (3)
       660  Ethno Res Ed (3)
       671  Eval Ed Prog (3)
SOC  681  Survey (3)
SOPSY  610  Social (3)
### ASIAN STUDIES

**ASIAN STUDIES (ASIAN)**

**598 Asian Studies: Selected Readings. (3)**
Topics for independent study and research to be chosen and investigated in consultation with the department and instructor involved.

*Prerequisite:* permission of the program director.

A total of 6 hours of credit may be earned.

### INTERDEPARTMENTAL COURSES

#### CREATIVE PROJECT (CRPRJ)

**698 Creative Project. (3 or 6)** Must be taken for a total of either 3 or 6 hours of credit. Offered credit/no credit only.

*Prerequisite:* permission of the graduate advisor.

#### DOCTORAL CANDIDATE (DOC)

**700 Doctoral Candidate. (0)** May be taken no more than two times prior to admission to candidacy. See page 39 for details.

*Prerequisite:* requires the approval of the student’s committee chairperson, the departmental doctoral program director, and the dean of the graduate school.

#### DOCTOR’S DISSERTATION (DISS)

**799 Doctor’s Dissertation. (1-24)** A total of 24 hours of credit may be earned. Must be taken for a minimum of 10 hours of credit. Must also be taken for three hours of credit each academic semester after candidacy and enrollment in the minimum required by the department if not registering for a course or courses until the final copy of the dissertation is deposited in the Graduate School. A doctoral candidate in an externally accredited program that requires an internship experience is exempt from continuous enrollment while registered for internship credit. See page 39 for Stage 3 of doctoral requirements for details. Offered credit/no credit only.

*Prerequisite:* permission of the graduate advisor.
695 Immersive Experience for Graduate Students. (1-9) An interdisciplinary immersive project resulting from collaboration among university and community members. Students may work independently or as part of project teams in consultation with a member of the graduate faculty with competence in the project area.

Prerequisite: permission of the graduate dean.

A total of 9 hours of credit may be earned.

705 Research Colloquium. (1-3) Doctoral candidates will present dissertation proposals for study and analysis. Related issues in research will be considered.

A total of 2 hours of credit must be earned but departments may require a total of 3 hours of credit.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned. Open only to doctoral students.

MASTER’S CANDIDATE (MASTR)

600 Master’s Candidate. (0) After receiving approval for RES 697 or THES 698, all master’s degree candidates must be registered each semester during the academic year. If not registering for a course or courses, the candidate will register for MASTR 600 Master’s Candidate for a fee of $50. Before degree conferral, registration and subsequent payment for MASTR 600 are mandatory for students who have not registered for MASTR 600 during required semesters. Registration in MASTR 600 is not required during the summer. Registration in MASTR 600 will give the master’s candidate the rights and privileges of a regular student.

A master’s candidate may also take MASTR 600 under other circumstances when not registered for a course or courses—for instance, while working off an incomplete grade—with the approval of the candidate’s committee chairperson, the department advisor, and the dean of the Graduate School.

Open only to master’s students.

RESEARCH PAPER (RES)

697 Research Paper. (1-3) Must be taken for a total of 3 hours of credit. Offered credit/no credit only.

Prerequisite: permission of the graduate advisor.

TECHNOLOGY PREPARATION (TPREP)

590 Implementing the Technology Preparation Curriculum. (3) Focuses on issues and processes used to develop curriculum that effectively incorporates technology preparation concepts. Individuals and committees receive guidance in writing curriculum.

595 Instructional Strategies in the Technology Preparation Curriculum. (3) Focuses on interdisciplinary, competency-based content; planning and using instructional strategies; and assessment of student progress in the technology preparation (tech prep) curriculum.

690 Leading Technology Preparation Programs. (3) Instruction of secondary administrators and technology preparation (tech prep) project managers in effective implementation strategies and methods used to develop, implement, and maintain a successful local technology preparation program.

691 Counseling in Technology Preparation Programs. (3) Emphasizes career development of adolescents; relationships among career choice, lifestyle, psychosocial, and reality concerns in life career development; and application of theories to recruiting, guiding, and counseling technology preparation (tech prep) students in the school system.

THESIS (THES)

698 Thesis. (1-6) Must be taken for a total of 6 hours of credit. Offered credit/no credit only.

Prerequisite: permission of the graduate advisor.
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### CERTIFICATE IN DIGITAL DESIGN AND FABRICATION

Core requirements: 12 hrs

## FAMILY AND CONSUMER SCIENCES

The Department of Family and Consumer Sciences prepares diverse students to improve the quality of life for individuals, families, and communities and the environments in which they function. Programs empower individuals and families across the life span to manage the challenges of living and working in a diverse, global society through the integration and application of knowledge, skills, attitudes, and behaviors from family and consumer sciences as well as a variety of other disciplines. The department encourages professional and community service by its faculty and students. The graduate degree options are designed to provide individualization and flexibility for students with varying needs and interests. The master of science in family and consumer sciences and in dietetics and the master of arts in family and consumer sciences can be accomplished with a wide variety of courses. The following options are available also:

**Master of Arts in Family and Consumer Sciences**
- Apparel Design Option
- Fashion Merchandising Option
- General Option
- Interior Design Option
- Nutrition Option
- Residential Property Management Option

**Master of Science in Family and Consumer Sciences**
- Apparel Design Option
- Fashion Merchandising Option
- General Option
• Interior Design Option
• Residential Property Management Option

In addition, students can develop programs in education, family life, food management, and interior design.

**PROGRAMS**

Master of arts (MA) in family and consumer sciences; master of science (MS) in dietetics and in family and consumer sciences. In general, depending on the program of study, students should anticipate 18-24 months to complete a master’s degree in family and consumer sciences or dietetics.

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School. All applicants must submit a letter of intent, a resume, and two letters of recommendation.

**MASTER OF ARTS IN FAMILY AND CONSUMER SCIENCES**

21-33 hours from family and consumer sciences major including a minimum of 9 hours to complete the research component:

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Family and consumer sciences courses or one of the options listed below 15

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| Family and consumer sciences courses or one of the options listed below 15

Electives inside or outside the

**Department of Family and Consumer Sciences** (nutrition option students may include dietetic internship FCSFN 680, 681, 682)

**Apparel design option, 15 hours**

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<td>Adv Tailor</td>
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**Fashion merchandising option, 15 hours**

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<td>565</td>
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**Interior design option, 15 hours**

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Applicants must have an undergraduate degree in interior design or related design discipline.

**Nutrition option, 15 hours**

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61
6 hours from
FCSFN  500 Cost Hosp Fd (3)
       575 Catering (3)
       643 Obes Wt Ctrl (3)
       644 Nut Exer Spt (3)
       650 Matrn Inf Nu (3)
       651 Pediatr Ntr (3)
       652 Geriatr Ntr (3)
       660 Adv F S Mgt (3)
       683 Adv Pra Diet (3)  6

15 hrs

Residential property management option, 15 hours
Foundation courses at the undergraduate level (FCSPM 104, 235, 275, 305) are required except when equivalent competency has been documented. Students without a Residential Property Management (RPM) undergraduate degree or with less than six months of industry experience must use 6 of the elective hours to complete FCS 569 Internship. Students must meet the following additional requirements:
- Grade of C of better in FCSPM 535 and FCS 569 (if applicable)
- Sit for the Certified Apartment Manager (CAM) exam

FCSPM  530 Adv Apt Oper  3
       535 Adv RPM Proj  3
       585 Adv Sim RPM  3
       635 T&I Corp PM  3

3 hours from
FCSFC  680 Family Prob (3)
FCSPM  525 Adv Gov Hous (3)
       615 Sr Hous Opt (3)
       696 P M Sem (3)  3

15 hrs

MASTER OF SCIENCE IN FAMILY AND CONSUMER SCIENCES

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EDPSY  641 Statist Meth (3)
       or
       642 Interim Stat (3)
       or
HSC    687 Stat Mth HSc (3)  3
FCS    697 Res Methods  3
THES   698 Thesis (1-6)  6

Family and consumer sciences courses or one of the options listed below  15

Electives inside or outside the Department of Family and Consumer Sciences (nutrition option students may include dietetic internship FCSFN 680, 681, 682)  6-9

33-36 hrs

Apparel design option, 15 hours
FCSFA  500 Adv Flat Pat  3
       501 Adv Tailor  3
       503 Adv Draping  3
       505 Adv CAD Appr  3
FCSFA elective  3

15 hrs

Fashion merchandising option, 15 hours
FCSFA  555 Adv Fash Anl  3
       565 Adv Designer  3
       570 Adv Fash Buy  3
       575 Adv Int Appr  3
FCSFA elective  3

15 hrs

Interior design option, 15 hours
FCSID  506 Des Theo Cri  3
       513 Id Digi Med  3
       519 Env Psyc Prg  3
       520 Incl Design  3
       604 Prof Des Pra  3

Applicants must have an undergraduatedegree in interior design or related design discipline.

15 hrs
Residential property management option, 15 hours
Foundation courses at the undergraduate level (FCSPM 104, 235, 275, 305) are required except when equivalent competency has been documented. Students without an RPM undergraduate degree or with less than six months of industry experience must use 6 of the elective hours to complete FCS 569 Internship. Students must meet the following additional requirements:
- Grade of C or better in FCSPM 535 and FCS 569 (if applicable)
- Sit for the Certified Apartment Manager (CAM) exam

FCSPM 530 Adv Apt Oper 3
535 Adv RPM Proj 3
585 Adv Sim RPM 3
635 T&I Corp PM 3

3 hours from
FCSFC 680 Family Prob (3)
FCSPM 525 Adv Gov Hous (3)
615 Sr Hous Opt (3)
696 P M Sem (3) 3

15 hrs

MASTER OF SCIENCE IN DIETETICS

Admission requirements
Applicants must meet the admission requirements of the Graduate School. All applicants must submit a letter of intent, a resume, and two letters of recommendation.

Those applying for the MS in dietetics must provide an original, signed American Dietetic Association Verification of Completion Statement from the Didactic Program in Dietetics director or Declaration of Intent to complete a didactic program in dietetics that indicates that academic work is within the last five years. Courses for verification must be completed before the MS in dietetics is granted.

Dietetic Internship
The dietetic internship at Ball State University is a 26-week, full-time program that begins in January and June of each year. Students accepted into the program will have the opportunity to complete the requirements of the dietetic internship and at least 18 hours of the master’s degree. The dietetic internship at Ball State University is currently granted accreditation by the Commission on Accreditation for Dietetics Education, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040. Students applying to the dietetic internship must provide a completed application form, a current resume, a letter of application, a letter of acceptance to the Ball State Graduate School, three original recommendations, and an American Dietetic Association Verification of Completion Statement or Declaration of Intent to complete a didactic program in dietetics, and must hold a baccalaureate degree from an accredited educational institution.

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9 hours from FCSFN dietetic internship sequence (FCSFN 680,
or other electives inside or outside the Department of Family and Consumer Sciences such as public health, patient education and medical nutritional therapy interests 9

36 hrs

FAMILY AND CONSUMER SCIENCES (FCS)

500 Field Studies in Family and Consumer Sciences. (1-6) Field study sites may either be domestic or international, and in any area of family and consumer sciences. Readings related to the field experience will be included.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

569 Internship in Family and Consumer Sciences. (3-6) Provides the opportunity for work in an established setting to gain professional experience in one’s specific area of study.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

595 Independent Study in Family and Consumer Sciences. (1-3) Investigation and exploration of a topic in family and consumer sciences. Emphasizes extensive reading and the development of research skills.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

596 Seminar in Family and Consumer Sciences. (1-6) Seminar topics will focus on current issues in the family and consumer sciences profession. Using the seminar format students will research, discuss, and disseminate information gathered on a given topic.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

697 Research Methods in Family and Consumer Sciences. (3) Analysis and application of quantitative and qualitative research methods appropriate to the various areas of family and consumer sciences. Emphasizes research design, data collection, analysis, validity, report writing, and the presentation of a research proposal.
Prerequisite: EDSPY 641; BIO 548; HSC 687; or permission of the department chairperson.

FAMILY AND CONSUMER SCIENCES: EDUCATION (FCSED)

692 Family and Consumer Sciences Education Program Implementation. (3) Standards for and history and philosophy of family and consumer sciences education (FCSED) are featured. Techniques for implementing career and technical FCSED programs are included. Also incorporates strategies for developing leadership, youth organizations, public relations, and professionalism.
Not open to students who have credit in FCSED 492, except by permission of the department chairperson.

693 Curriculum in Family and Consumer Sciences. (3) A study of curriculum components. Features the principles of curriculum development and implementation in family and consumer sciences education. Existing curriculum standards at the state and national level are utilized in curriculum development.
Open only to students with an FCSED teaching license or by permission of the department chairperson.

694 Assessment and Evaluation in Family and Consumer Sciences Education. (3) Assessment used by effective teachers in FCS education. Use
of forms such as checklists, rubrics, scorecards, and other measures are explored. Emphasizes ways to incorporate assessment that promotes student learning and develops student confidence. Includes means of assessment for unique students and/or teaching/learning settings.

*Open only to* students with an FCSED teaching license or by permission of the department chairperson.

**695 Contemporary Methods for Teaching Family and Consumer Sciences Education.** (3) Methods and techniques used by effective family and consumer sciences education teachers. Includes ways to incorporate methods that promote student directed learning, decision making, and the development of responsible citizens. Emphasizes methods that create an appropriate teaching/learning classroom and develop a community of learners.

*Open only to* students with an FCSED teaching license or by permission of the department chairperson.

**FAMILY AND CONSUMER SCIENCES: FASHION MERCHANDISING AND APPAREL DESIGN (FCSFA)**

**500 Advanced Flat Pattern.** (3) Fundamental principles of pattern modification using a basic pattern. Emphasis on pattern alteration and fitting of basic dress and pants. Use of computer-aided design to produce a pattern for a garment of original design.


**503 Advanced Design by the Draping Method.** (3) Provides basic knowledge of apparel design using the draping method.

**505 Advanced Computer-Aided Design for Apparel.** (3) Knowledge of the use of Computer-Aided Design (CAD) in fashion apparel designing.

**555 Advanced Fashion Product Analysis.** (3) Study of factors that contribute to the quality of fashion-related merchandise. Provides an opportunity to become skillful in evaluating the materials and construction quality and techniques used in the textile and apparel industry. Includes investigation of current trends related to apparel quality and sourcing.

*Prerequisite:* permission of the department chairperson.

**565 Advanced Study of Fashion Designers and Forecasting.** (3) Study of present and historical fashion designers from around the world. Emphasis on understanding their contributions to the fashion industry and their influence in today’s fashion markets. An understanding of the process of fashion forecasting is stressed.

*Prerequisite:* permission of the department chairperson.

**570 Advanced Fashion Buying and Merchandising.** (3) Review of current trends in fashion merchandising. Building a knowledge base to make decisions on buying and merchandising to satisfy customers and maintain an adequate profit level.

*Prerequisite:* permission of the department chairperson.

**575 Advanced International Apparel Markets.** (3) Provides an overview of the global textile and apparel industries. Considers the U.S. textile complex and market within an international context. Investigation of current trends in the international apparel marketplace.

*Prerequisite:* ECON 201 or 509; MKG 300 or 505; permission of the department chairperson.

**FAMILY AND CONSUMER SCIENCES: FAMILY AND CHILD (FCSFC)**

**680 Family Problems.** (3) Survey of the major problems experienced by families. Emphasizes whole-family functioning rather than individual functioning. Preventive measures, treatment approaches, and appropriate agencies and services are identified.
FAMILY AND CONSUMER SCIENCES:
FOOD AND NUTRITION (FCSFN)

500 Cost Control in Hospitality and Foodservice Industry (3) Controlling cost from a management perspective in the hospitality and foodservice industry.
  Prerequisite: ACC 201.
  Not open to students who have credit in FCSFN 300.

540 Human Nutrition. (3) Addresses the principles of nutrition, life-cycle nutrition, and the relationship of diet to health and disease.
  Not open to students who have credit in FCSFN 340, 445 or equivalent.

571 Computer Applications in Family and Consumer Sciences. (3) Emphasizes applications of computer utilization in food management and hospitality, nutrition, and other family and consumer sciences professions. Software, including spreadsheet, database, presentation, publication, word processing, and the Internet, is employed. Includes selection and application of software specific to food management and hospitality, nutrition, and other family and consumer sciences professions.
  Not open to students who have credit in FCSFN 371.

575 Catering for Profit. (3) Fundamentals of planning, organizing, preparing, and serving profitable and unique catering functions. Emphasizes menu development, customer service, marketing, and food production.
  Prerequisite: FCSFN 400 or permission of the department chairperson.
  Not open to students who have credit in FCSFN 475.

576 Event Management. (3) Management of hospitality and business-related activities such as conventions, professional and social events, catered activities, and their intra-industry interactions.
  Not open to students who have credit in FCSFN 476.

642 Nutrition Assessment. (3) Techniques needed to evaluate nutritional status and plan appropriate nutrition intervention. Includes assessment of dietary intake, body composition, nutrient requirements, and laboratory indices of nutritional status. Development of appropriate nutrition therapies will be addressed.
  Prerequisite: FCSFN 446, 447 or equivalent.

643 Energy Balance, Obesity, and Weight Control. (3) In-depth study of the components of energy balance, theories regarding the etiology of obesity, and the impact of obesity and dieting on health. Includes evaluation of current weight control techniques and identification of the best methods for maintaining optimal body weight.
  Prerequisite: FCSFN 340 or 345, 346 or equivalent.

644 Nutrition for Exercise and Sport. (3) Examination and integration of the principles of nutrition and energy metabolism as they apply to athletes and active individuals. Dietary recommendations for athletes participating in various sports will be reviewed. Current research in sports nutrition will be discussed.
  Prerequisite: FCSFN 340 or 345, 346 or equivalent.
  Not open to students who have credit in FCSFN 444.

647 Carbohydrates, Proteins, and Lipids. (3) Advanced study of carbohydrates, proteins, and lipids in humans. Includes macronutrient metabolism and the relationship of these dietary components to health and disease.
  Prerequisite: FCSFN 345 or equivalent.

648 Vitamins and Minerals. (3) Advanced study of vitamins and minerals in humans including micronutrient metabolism and the relationship of these dietary components to health and disease.
  Prerequisite: FCSFN 346 or equivalent.

Prerequisite: FCSFN 345, 346 or equivalent.

651 Pediatric Nutrition. (3) Principles of pediatric nutrition (preschool through adolescence). Nutritional needs of children in normal and therapeutic nutrition will be investigated. Current research in pediatric nutrition will be discussed.

Prerequisite: FCSFN 345, 346 or equivalent.

652 Geriatric Nutrition. (3) Nutritional needs of older adults in consideration of physiological and social changes and research in the field. Review recent literature, evaluate nutrition status of elderly persons in selected situations, and study and evaluate nutrition programs designed for older adults.

Prerequisite: FCSFN 340 or 540 or permission of the department chairperson.

660 Advanced Food Service Administration. (3) Identification and application of advanced foodservice management and marketing concepts; development of skills required of dietitians and other upper level managers.

Prerequisite or parallel: FCSFN 363 or permission of the department chairperson.

680 Supervised Practices in Food Systems Management. (3) Application of management principles involved in the acquisition, production, quality control, distribution, and service of quality food in an acute care environment; development of a philosophy of excellence in administrative leadership through supervision of foodservice personnel (360 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

681 Supervised Practice in Nutrition Therapy. (3) Application of the healthcare team approach of dietary management to human pathophysiologic status through assessing, planning, documenting, and counseling individuals and educating groups in an acute care environment (520 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

682 Supervised Practice in Community Nutrition/Nutrition/Business/Entrepreneur. (3) Application of concepts and methodologies of nutrition and health practices as related to the family and people in the community; provision of education programs for specific populations and the public through community agencies and related business and private organizations (320 clock hours).

Prerequisite: permission of the department chairperson.

Open only to dietetic internship students.

683 Advanced Practice in Dietetics. (3) Advanced directed study in an approved area of board certified or specialty certification as recognized by the American Dietetic Association. Areas of specialized practice could include sports nutrition, pediatrics, nutrition support, weight management, oncology, geriatrics, or diabetes.

Prerequisite: current registered dietitian status.

696 Seminar in Foods and Nutrition. (3-6) Student presentations and discussions of trends and issues related to food and nutrition. Emphasizes in-depth knowledge of current research findings and policy issues. Basic knowledge of food and nutrition required.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

FAMILY AND CONSUMER SCIENCES: INTERIOR DESIGN (FCSID)

506 Design Theory and Criticism. (3) Provides the opportunity to develop intellectual and imaginative abilities through the study of innovative methodologies, scholarly design researches, the works of key design practitioners, theorists, and critics, evolving design postulations and conceptual articulations within social, cultural and economic developments over time.
513 Design with Digital Media. (3) Applying and integrating cutting edge software to the development of a comprehensive commercial project.

519 Environmental Psychology and Programming. (3) Provide theories of interplay of human and interior space. Behavioral settings, proxemics, density and crowding, noise, personal space and territory will be discussed. Further, methods of gathering, organizing, and assessing data needed to design the interior spaces, developing design concepts, goals, and objectives will be discussed.

520 Inclusive Design. (3) Focuses on design solutions for all users of the interior space with emphasis on the functional, cultural, and agronomical needs. Discusses alternative approaches to design process, materials, and user centric products. Concepts and principles of universal and global design and governmental regulations are covered.

525 Advanced Management of Government-Assisted Housing. (3) Exploration of the practices that impact government-assisted housing programs and the role of management in meeting the needs of owners, residents, and regulatory agencies. Application of these practices through advanced projects and field experiences.

Not open to students who have credit in FCSPM 405.

530 Advanced Apartment Operations Management. (3) Residential property managers are responsible for day to day and long term financial condition of the housing communities they manage. This course equips students with the knowledge and skills necessary to add value to multifamily residential communities.

Not open to students who have credit in FCSPM 330.

535 Advanced Residential Property Management Project. (3) Provides an advanced, hands-on opportunity to use industry standards to analyze an apartment community. The resulting project can provide the management company with information to remain competitive and profitable in the apartment market.

585 Advanced Simulation in Residential Property Management. (3) Application of advanced residential property management skills practiced through simulation activities. Opportunity to research common problems in the industry to arrive at solutions.

615 Senior Housing Options. (3) Examination of the challenges and solutions in housing older adults from independent living through dependent custodial care. Investigation and evaluation of senior housing options through research projects and field experiences. Exposure to senior housing from a global perspective.
635 Trends and Issues at the Corporate Level in Property Management. (3) Research the trends and issues at the corporate level of property management making use of current demographic and other data. Examine legislative issues related to a balanced housing policy.

696 Property Management Seminar. (3) Exploration of the professional practices of specialized property types. Using the seminar format, students will research, discuss, evaluate, and disseminate information related to a given property type.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

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**NURSING**

[www.bsu.edu/nursing](http://www.bsu.edu/nursing)

Cooper Science Complex, Room 418, 765-285-5571

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**PROGRAM**

**MASTER OF SCIENCE (MS) IN NURSING**

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School. Applicants must also

- be a graduate of a National League for Nursing (NLN) or Association of Colleges of Nursing (CCNE) accredited nursing program. Registered nurses holding baccalaureate degrees in another field who demonstrate successful completion of an upper-division major in nursing may qualify.
- have earned overall grade-point average (GPA) of 2.80 on a 4.0 scale or 3.0 upper-division GPA in the baccalaureate program.
- have earned a grade of C or better in at least 2-quarter, or -semester, hours in an undergraduate research course.
- have had a physical assessment course (required for clinical majors).
- hold an unencumbered license as a registered nurse in state of practice.
- show evidence of training in standard precautions.
- have health clearance.
- clear criminal background checks.
- have minimum of one year clinical experience before enrolling in clinical courses for new graduates.
- have recent clinical experiences (three of past five years) before enrolling in clinical courses for experienced nurses.

This program is delivered via the World Wide Web and requires computer access.

**NUR 605 Nursing Information Technology is required for all students.**

**Retention Standards**

An overall scholastic ratio of 3.0 (B average) must be attained before admission to candidacy and the final awarding of any master’s degree. No course with grades below C (2.0) may be counted toward any degree program.

**Registered Nurse to Master of Science Nursing Mobility**

This program is designed for nurses holding an associate degree in nursing and a baccalaureate degree in another field. Contact the School of Nursing for more information.

**All students take the following research and nursing core courses.**

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Complete one of the following tracks:

Clinical Nurse Specialist Adult Health Track, 46 hours

Research core 6
Nursing core 11
NUR 614 Concp Anls 3 3
630 Clin Role 3
632 Pathophys 3
634 Hl Assessmnt 3
638 Pharm 3
672 Role Expct 4
680 Adv Adult 7
RES 697 Research Ppr (1-3) 3

46 hrs

Nurse Practitioner (Adult/Family), 43-50 hours

Adult Nurse Practitioner

Research core 6
Nursing core 11
NUR 614 Concp Anls 3 3
630 Clin Role 3
632 Pathophys 3
634 Hl Assessmnt 3
638 Pharm 3
672 Role Expct 4
680 Adv Adult 7

33 hrs

Family Nurse Practitioner

To extend degree to Family Practitioner the following courses are required.
NUR 682 Prim Child 4
684 Prim Women 3

50 hrs

Post-Master’s Certificate Nurse Practitioner (Adult/Family), 25-32 hours

Prefix No Short Title Cr Hrs

Adult Nurse Practitioner

NUR 605 Nur Info 2
630 Clin Role 3
632 Pathophys 3
634 Hl Assessmnt 3
638 Pharm 3
672 Role Expct 4
Family Nurse Practitioner

To extend certificate to Family Practitioner the following courses are required:

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<tr>
<td>NUR</td>
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32 hrs

Post-Master’s Certificate Nurse Educator, 15 hours

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<td>622</td>
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</tr>
<tr>
<td></td>
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<td>Role Expt</td>
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15 hrs

Post-Master’s Certificate for Certified Nurse Practitioners (Adult or Gerontology), 13 hours

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13 hrs

Post-Baccalaureate Certificate Program in Nursing Education, 14 hours

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14 hrs

Post-Baccalaureate Certificate Program in Evidence-Based Clinical Practice, 14 hours

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<td>RES</td>
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14 hrs

Admission requirements

Applicants must meet the admission requirements of the Graduate School as well as additional requirements of the School of Nursing. Contact the School of Nursing for additional information.

Applicants must also:

- Have graduated from a National League for Nursing Accrediting Commission (NLNAC) or Commission on Collegiate Nursing Education (CCNE) accredited baccalaureate or master’s program in nursing with a minimum grade point average of 3.2 on a 4.0 scale.
- Have acceptable scores on the Graduate Record Examination (GRE).
- Have completed an undergraduate or graduate level statistics course and nursing research course.
- Have completed an undergraduate or graduate level health assessment course.
- Have an unencumbered license as a registered nurse in the state of practice.
- Have a minimum of one year of nursing clinical experience for new baccalaureate nursing graduates or recent clinical experience for other nurses before enrolling in clinical courses.
- Meet all health clearance, criminal background checks, and other requirements for clinical practice.
The Admission and Progression Committee will review all application materials and a phone interview will be conducted prior to determination of acceptance in the program. The number of applicants admitted to the Doctorate of Nursing Practice (DNP) program is limited. Admission will be competitive and meeting the minimum admission criteria does not ensure that an applicant will be admitted to the program.

Points of Entry into DNP Program

Nurses may apply and be admitted to the DNP program at two entry points — post nursing baccalaureate degree (BS to DNP) or after completion of a master’s degree or higher in nursing.

Nurses who have a nursing baccalaureate degree but who do not have a master’s degree in nursing may be admitted directly to the DNP program.

Nurses who have completed a master’s degree in nursing at Ball State University School of Nursing in Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track may be admitted to the DNP program and are able to apply earned master’s degree credit hours toward the required minimum post baccalaureate 90 credit hours.

Nurses who have completed a master’s degree in nursing at Ball State University School of Nursing in the Leadership track (Nurse Educator or Nurse Administrator) may be admitted to the DNP program but must complete Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track courses prior to starting the DNP core courses. Earned master’s degree in nursing credit hours can be applied toward the required minimum post baccalaureate 90 credit hours.

Plans of study for nurses who have completed a master’s or higher degree in nursing from another university will be designed to meet the requirements of Ball State University School of Nursing without duplication of equivalent courses. A minimum of 48 of the required minimum post baccalaureate 90 credit hours must be completed at Ball State University.

DNP Program Graduation Requirements

The DNP program requires completion of a minimum of 90 post baccalaureate credit hours including a minimum of 1000 post baccalaureate clinical hours. The DNP program requires completion of a scholarly project (4 credit hours) under the advisement of a nursing faculty member with evaluation by a faculty committee. The DNP project (NUR 792) is completed within the context of 360 supervised practicum hours (NUR 790/791). As is standard with other practice or professional doctorates, a dissertation is not required.

DOCTORATE IN NURSING PRACTICE

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CERTIFICATE PROGRAM IN EVIDENCE-BASED CLINICAL PRACTICE

Admission requirements

1. Graduate from a baccalaureate program, accredited by the National League for Nursing or the Commission on Collegiate Nursing Education, that included an upper-division nursing major.
   - Meet requirements for admission to graduate study at Ball State University.
2. Have earned a minimum overall cumulative grade-point average (GPA) of 2.8 on a 4.0 scale or upper-division nursing GPA of 3.0 in the baccalaureate program.
3. Complete an undergraduate research course, 2.0 quarter/semester hours, completed with a grade of C or above.
   - Evidence of completion of a physical assessment course (for Clinical, NP Track).
   - Hold current license as a registered nurse in state of practice.
   - Have own professional liability insurance.
4. Have a minimum of two full years of experience in professional nursing for full-time study.
   - Have evidence of training in standard (universal) precautions.
   - Health clearance.

NURSING (NUR)

603 Nursing Theory. (3) Exploration and analysis of theory development in the field of nursing, emphasizing current research, conceptual models, and theory development in nursing.

604 Research. (3) Research methodology in nursing emphasizing the critical evaluation of research and its applicability to practice.  
Prerequisite or parallel: graduate statistics.  
Open only to graduate nursing students.

605 Nursing Information Technology. (2)  
Evaluates the impact of information and health care technology in relationship to advanced nursing. Experiences include the utilization of computer hardware and software and initiating a line of inquiry via database use.

606 Nursing and Computer Technology 2. (2)  
Builds on experience in the use of computers. Emphasizes a further exploration of computer integration in nursing practice, service administration, education, or research. Computer laboratory experience included.  
Prerequisite: NUR 605 or equivalent.

607 Data Analysis in Nursing Research. (3)  
Emphasizes the interpretation and application of descriptive, inferential, and advanced statistical analyses of data. Critical examination of data collection, data analyses, and interpretation of quantitative and qualitative nursing studies will be the focus.

610 Concepts Analysis 1. (3) Analyzes selected nursing concepts and related research with a focus on health promotion. Relationship of concepts to advanced practice models is explored. Clinical experience focuses on application of research findings to clinical populations in various stages of the life cycle.  
Prerequisite recommended: full admission to program; NUR 603, 604.

611 Concept Analysis 2: Decision Making. (3) Builds on analysis of concepts from NUR 610. Emphasizes ethics and clinical decision making to facilitate client transition from acute illness to optimal health. Nursing theory and research-based interventions are incorporated into clinical experiences.  
Prerequisite: NUR 603, 604, 610.

614 Concepts Analysis 3: Concepts Issues in Chronic Illness and Aging. (3) Builds on NUR 610 and 611 concepts and issues of chronic illness and aging are applied. Research findings are analyzed related to quality care. Impact of fiscal management health care policies and technology are explored.  
Open only to nursing master’s candidates.
618 Application of Clinical Concepts in Community-Based Settings. (3) Applies nursing process, primary health care principles, and primary and secondary prevention with community-based populations. Explores community practice models and the effect of health policy on health care delivery. Clinical focus includes interdisciplinary and intersectoral collaboration in addressing consumer health needs.

Prerequisite: NUR 603, 604.

620 Curricular Designs in Nursing. (3) Opportunity to develop, implement, and/or evaluate student-selected aspects of existing nursing curricula. Emphasizes a group experience in assessing a curricular problem and applying current theory of practice in seeking solutions to a practical curriculum issue.

Prerequisite: NUR 603.

622 Teaching in Nursing. (3) Focuses on teacher behaviors that promote student learning, including course development and use of technology in a variety of post-secondary nursing environments. Includes faculty roles and responsibilities in nursing education.

626 Program Evaluation. (3) Focuses on program evaluation of a nursing unit by exploring the components of a systematic evaluation plan and identifying evaluational tools for educational assessment using collaborative strategies.

Prerequisite: NUR 620, 622; or previous teaching experience and permission of the instructor.

630 Advanced Practice Nursing and Role Theory. (3) Nursing and related theories analyzed as the roles of advanced practice nurses are explored. Professional practice issues are examined through the synthesis of professional and research literature. A conceptual model to guide practice is developed.

Prerequisite recommended: NUR 604, 610, 611, 614.

632 Pathophysiology and Nursing Practice. (3) Provides a comprehensive scientific background and understanding of pathophysiology as it relates to client assessment across the lifespan in a variety of health care settings. Forms the basis for advanced nursing practice.

Prerequisite: NUR 603, 604.

634 Advanced Health Assessment. (3) Practice of advanced health assessment techniques across the lifespan. Emphasizes the use of critical thinking and decision-making abilities to formulate differential diagnosis and a plan of care based on assessment data.

Prerequisite: admission to program; NUR 603, 604.

638 Advanced Clinical Pharmacology. (3) Provides principles of advanced pharmacology based on pharmacotherapeutics, pharmacokinetics, and pharmacodynamics of broad categories of drugs. Emphasizes pharmacological management of clients across the lifespan in diverse settings.

640 Nursing Administration in Complex Organizations. (3) Introduction to administration of nursing. Relates organizational and administrative theories to the delivery of nursing care with emphasis on the health care environment.

Prerequisite: NUR 604.

642 Administrative Management for Nurses. (3) Introduction to organizational planning, budgeting, human resources management, conflict management issues, quality management, and ethics.

Prerequisite: NUR 604, 640.

643 Financial Management for Nurses. (3) Introduction to economic and budgeting processes and the impact of costs on nursing care delivery systems. Includes laboratory experience with budgets.

Prerequisite: NUR 604, 640, 642.

Open only to graduate nursing students.

672 Practicum of Role Expectations. (4) Practicum in (clinical/educational/ administrative/nurse practitioner) setting of student’s selected functional role. Seminars for guidance and analysis of role relationships.
Topics include teacher in nursing; administrator in nursing; role of clinical nurse in advanced practice; nurse practitioner.

Prerequisite: all required role courses.

680 Advanced Care of Adult. (7) Focuses on the application and evaluation of advanced practice knowledge and skills required for the care of adults.

Prerequisite: NUR 630, 632, 634, 638.  
Open only to nurse practitioner or clinical nurse specialist students.

682 Primary Care of Children. (4) Focuses on the application and evaluation of advanced nursing practice knowledge and skills required for the care of children and their families.

Prerequisite: all courses required for adult nurse practitioner program.  
Open only to family nurse practitioner students.

684 Primary Care of Women. (3) Focuses on the application and evaluation of advanced nursing practice knowledge and skills required for the care of women and their families.

Prerequisite: all courses required for adult nurse practitioner program.  
Open only to family nurse practitioner students.

690 Special Studies in Nursing. (1-4) Group study of topics of special interest in nursing.  
A total of 4 hours of credit may be earned.

699 Independent Study. (1-3) Independent study under the direction of a faculty member.  
May involve experimental inquiry, independent exploration of literature and resources, or development of special techniques.

Prerequisite: permission of the coordinator of graduate studies in nursing and the department chairperson.

A total of 3 hours of credit may be earned.

730 Statistics for Health Care Research. (3) Focuses on application of advanced statistical methods and analysis of data used in research for evidence-based practice and clinical decision making.

740 Theory Based Models of Care. (3) Focuses on the development and evaluation of models of care within the framework of nursing theories and theories from other disciplines. Emphasis on integrating nursing science with knowledge from the biophysical, psychosocial, and behavioral sciences and ethics as the basis for advanced nursing practice.

742 Research for Evidence-Based Practice. (3) Focuses on critical analysis of scientific evidence and its application and evaluation in advanced nursing practice. Emphasis on ethical, cultural, and financial implications of evidence-based practice. The role of the advanced practice nurse in collaborative research and dissemination of findings is explored.

Prerequisite: NUR 730.

744 Outcomes Research and Evaluation. (3) Focuses on the design and implementation of processes to evaluate health outcomes at patient, population, community, and health care systems levels. Emphasis on the application of relevant outcomes research and evaluation findings for quality improvement at all levels of care.

Prerequisite: NUR 730.

760 Population Focused Care. (4) Focuses on the advanced practice nursing role in disease prevention and health promotion for populations. Emphasis on designing, implementing, and evaluating care that will eliminate health disparities. Global health issues are explored. Clinical experience will be in a population focused care environment.

Prerequisite: NUR 730.

762 Health Care Business and Economics. (3) Focuses on principles of business, finance, economics, and health care informatics utilized in developing and evaluating care delivery approaches within health care systems and clinical practice. Emphasis on cost-effective practice initiatives for elimination of health disparities and improvement of health care outcomes.

764 Leadership in Health Policy and Advanced Practice. (4) Explores the advanced practice nurse leadership role at organizational
and systems levels. Emphasis on the inter-
professional dimension of health care with use
of collaborative and consultation skills.
Analysis, development, and implementation of
health care policies will be explored. Clinical
experience will be in a leadership environment.
Open only to DNP students.

780 Seminar: Advanced Topics in
Management of Client Health/Illness Status.
(3) Explores current client health/illness
management issues. Uses advanced levels of
clinical judgment and systems thinking in
evidence-based care to improve patient
outcomes.
Open only to DNP students.

790 Practicum 1. (3) Practice experiences are
designed to achieve specific learning objectives
related to the DNP Essentials and NONPF
Competencies. Experiences include in-depth
work with experts from nursing as well as other
disciplines and provide opportunities for
meaningful engagement within practice
environments. These experiences provide the
context for the DNP project.
Prerequisite: all other courses except NUR 792.

791 Practicum 2. (3) Practice experiences are
designed to achieve specific learning objectives
related to the DNP Essentials and NONPF
Competencies. Experiences include in-depth
work with experts from nursing as well as other
disciplines and provide opportunities for
meaningful engagement within practice
environments. These experiences provide the
context for the DNP project.
Prerequisite: all other courses except NUR 792.

792 DNP Project 1. (3) Project proposal will be
designed by the student. The project must be a
significant, evidence based endeavor to improve
practice or patient outcomes.
Prerequisite: NUR 730, 740, 742, 744, 764.
Open only to DNP majors.

793 DNP Project 2. (3) A creative, scholarly
project is designed by the student in
collaboration with a faculty advisor. The project
must be a significant, evidence based endeavor
to improve practice or patient outcomes and be
suitable for publication in a peer reviewed
journal.
Prerequisite: NUR 760, 762, 780, 792.
Open only to DNP students.

SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE
SCIENCE

www.bsu.edu/physicaleducation
Health and Physical Education Building 205, 765-285-8753

PROGRAMS

Master of arts (MA) or master of science (MS)
in exercise science with specialization in clinical
exercise physiology, biomechanics, sports
performance, and exercise physiology; master of
arts (MA) or master of science (MS) in physical
education and sport with specialization in sport
and exercise psychology, sport administration,
adapted physical education, athletic coaching
education, and teacher education; doctor of
philosophy (PhD) in human bioenergetics.

MASTER OF ARTS OR MASTER OF
SCIENCE IN EXERCISE SCIENCE

Admission requirements

Applicants must meet the admission
requirements of the Graduate School; have
bachelor’s degrees from regionally accredited
institutions in education, physical education,
biology, or other appropriate majors; have
grade-point averages (GPA) of at least 2.75 on a
scale of 4.0; and submit transcripts, three letters
of recommendation, resumes, and the exercise science application form. Applicants for the exercise science division must obtain approval from a review board in the area of specialization. A student with a GPA of less than 2.75 on a 4.0 scale must take the Graduate Record Examination (GRE) general test. Students with satisfactory scores on the GRE will be considered for admission to the program. Any deficiencies must be made up through course work taken in addition to degree requirements.

**Degree requirements**

Students must complete a minimum of 33 hours of graduate courses including 6 hours of a thesis project (THES 698) for the master of science or 3 hours of a research project (RES 697) for the master of arts degree. Students electing THES 698 must take a final oral examination covering the thesis to be given by the thesis committee. In the exercise physiology and biomechanics specializations, the MS is the only degree option.

**Clinical Exercise Physiology, 33 hours**

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<td>Appl Physl</td>
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Research requirements
Master of Arts, research paper/creative project
PEP 601 Research App (3)
RES 697 Research Ppr (1-3)
or
CRPRJ 698 Creat Proj (3 or 6) 6-9

Master of Science, thesis
EXSCI 611 Res Methods (3)
THES 698 Thesis (1-6) 9

Directed electives
CPSY 634 Behv Medicin (3)

EXSCI 633 Sem Ex Sci (1-6)
634 Mechan Anls (3)
640 Ex Prev Reha (3)
698 Fit Cardiac (1-3)
EDPSY 641 Statist Meth (3)
or
642 Interim Stat (3)
FCSFN 644 Nut Exer Spt (3)
PHYSL 514 Cardiovsculr (3) 3-6

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**Biomechanics, 33-34 hours**

Core requirements
EDPSY 641 Statist Meth 3
EXSCI 611 Res Methods 3
634 Mechan Anls 3
651 Lab Tech Bio 3

3-6 hours from
EXSCI 652 Clinical Bio (3)
655 Adv Biomechn (3) 3-6

4-6 hours from
EXSCI 633 Sem Ex Sci (1-6) 4-6

Research requirements
THES 698 Thesis (1-6) 6

3-9 hours from electives
BIO 548 Biometry (3)
CS 699 Read Honor (3)
EDPSY 642 Interim Stat (3)
EXSCI 603 Exer Phys 1 (3)
604 Ess Res Trng (3)
PUMET 111 Statics (3)
213 Dynamics (2) 3-9

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**Sports Performance, 33 hours**

EXSCI 600 Internship (1-6) 3
603 Exer Phys 1 3
604 Ess Res Trng 3
634 Mechan Anls 3
FCSFN 644 Nut Exer Spt 3
PEP 609 Sp Psy 3
696 Ath Training 3

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33 hrs
Research requirements
12 hours from one area

Master of Arts, non-thesis option
EDPSY 641 Statist Meth 3
PEP 601 Research App 3
Electives 12

Master of Arts, research paper/creative project
PEP 601 Research App 3
Electives 3-6
RES 697 Research Ppr (1-3)
or CRPRJ 698 Creat Proj (3 or 6) 3-6

Master of Science, thesis
EXSCI 611 Res Methods (3)
Electives
THES 698 Thesis (1-6) 12
12 hrs
33 hrs

Exercise Physiology, 33-38 hours

Core requirements
EXSCI 603 Exer Phys 1 3
623 Prin Ex Test 3
630 Exer Phys 2 3
637 Appl Physl 3

Directed electives, 6-10 hours from
CHEM 563 Prn Biochm 1 (3)
564 Prn Biochm 2 (3)
or
560 Essen Biochm (4)
EXSCI 633 Sem Ex Sci (1-6) 6-10

Research requirements
Master of Science, thesis
9 hours from
EXSCI 611 Res Methods (3)
THES 698 Thesis (1-6) 9

Electives, 6-7 hours from
BIO 557 Molecular (4)
EDPSY 641 Statist Meth (3)
or

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>642</td>
<td>Interim Stat (3)</td>
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<tr>
<td>EXSCI 634</td>
<td>Mechan Anls (3)</td>
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<tr>
<td>PHYSL 514</td>
<td>Cardiovasculr (3)</td>
<td>6-7</td>
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33-38 hrs

MASTER OF ARTS OR MASTER OF SCIENCE IN PHYSICAL EDUCATION AND SPORT

Admission requirements

Applicants must meet the admission requirements of the Graduate School and complete an application from the Department of Sport and Physical Education. Applicants must also have a bachelor’s degree from accredited institutions in education, physical education, biology, or other appropriate majors; grade-point average (GPA) of at least 2.75 on a scale of 4.0; and submit a statement of purpose, three letters of recommendation, resume, and other supporting documents.

A student with a GPA of less than 2.75 on a 4.0 scale must take the Graduate Record Examination (GRE) general test. Students with satisfactory scores on the GRE will be considered for admission under probationary status to the program. Any deficiencies must be made up through course work taken in addition to degree requirements.

Degree requirements

All students must complete a minimum of 33 hours of graduate courses. In order to earn a master of science degree these courses must include 6 hours of a thesis project (THES 698).

In order to earn a master of arts degree these courses must include 3 hours of a research project (RES 697) except students in sport administration (higher education and public school) and sport management have an additional option which includes 9 hours of internship (SPTAD 698). Students electing RES 697 or THES 698 must make a final oral defense.

Sport and Exercise Psychology, 33 hours

Core requirements
Research requirements
Master of Arts, research paper/creative project

EDPSY 641 Statist Meth (3)
PEP 601 Research App (3)
RES 697 Research Ppr (1-3)
or
CRPRJ 698 Creat Proj (3 or 6) 9-12

Directed electives
ACE 610 Psych Coach (3)
ANTH 559 Ethno Method (3)
CPSY 621 Theo Tch Cou (3)
EDPSY 603 Human Devel (3)
640 Methodology (3)
642 Interim Stat (3)
646 Tests Meas (3)
742 Statist Tech (3)
EXSCI 603 Exer Phys 1 (3)
PEP 600 Internship (1-6)
608 Motor Learn (3)
612 Motor Dvlpt (3)
PSYSC 613 Developmentl (3)
615 Learn Motiva (3)
616 Percp Cognit (3)
623 Theor Persnl (3)
632 Abnormal (3) 6-9

Master of Science, thesis
EDPSY 641 Statist Meth (3)
EXSCI 611 Res Methods (3)
THES 698 Thesis (1-6) 12

Directed electives
ACE 610 Psych Coach (3)
ANTH 559 Ethno Method (3)
CPSY 621 Theo Tch Cou (3)
EDPSY 603 Human Devel (3)
640 Methodology (3)
642 Interim Stat (3)
646 Tests Meas (3)
742 Statist Tech (3)
EXSCI 603 Exer Phys 1 (3)

Requirements for graduation (sport and exercise psychology)
- Students must be a member of one of the professional associations such as the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); Association of Applied Sport Psychology (AASP); or an advisor-approved sport psychology-related organization (e.g., American College of Sports Medicine).
- Students must attend a sport psychology related conference while registered as a student in the sport and exercise psychology specialization.

Sport Administration, 36-39 hours

Core requirements
SPTAD 603 Eth Phi Spt 3
611 Sp Marketing 3
615 Sport Law 3
617 Fin Prin Spt 3
619 Sp Fa Ev Adm 3
676 Sp Admin Pol 3
695 Adm Per Sp 3

Research requirements
Master of Arts
Choose one
Master of Arts, internship
PEP 601 Research App (3)
SPTAD 698 Intern SPTAD (6-9) 12

Master of Arts, research paper/creative project
EDPSY 641 Statist Meth (3)
PEP 601 Research App (3)
RES 697 Research Ppr (1-3)
or
CRPRJ 698 Creat Proj (3 or 6) 9-12
### Master of Science, thesis

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<td>Statist Meth (3)</td>
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<td>EXSCI 611</td>
<td>Res Methods (3)</td>
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<td>Thesis (1-6)</td>
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**Directed electives**

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<td>630</td>
<td>Humn Resourc (3)</td>
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<td>640</td>
<td>Public Rel (3)</td>
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<td>686</td>
<td>School Law (3)</td>
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<td>MGT 500</td>
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<td>MKG 505</td>
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<tr>
<td>PEP 609</td>
<td>Sp Psy (3)</td>
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<tr>
<td>630</td>
<td>Eval P E (3)</td>
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<td>644</td>
<td>Psy Soc SPA (3)</td>
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<td>685</td>
<td>P E Curr (3)</td>
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<td>690</td>
<td>Sp Sociology (3)</td>
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<td>696</td>
<td>Ath Training (3)</td>
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<td>PR 660</td>
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<tr>
<td>691</td>
<td>Spt in Film (3)</td>
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**Adapted Physical Education, 33 hours**

**Core requirements**

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<td>EDPSY 641</td>
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<td>PEP 619</td>
<td>Intro to APE (3)</td>
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<td>SPCED 600</td>
<td>Except Child (3)</td>
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**Professional requirements**

9 hours from one option

**Educational option**

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<td>Assess in APE (3)</td>
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**Clinical option**

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<tr>
<td>EXSCI 604</td>
<td>Ess Res Trng (3)</td>
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<tr>
<td>634</td>
<td>Mechan Anls (3)</td>
<td></td>
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<tr>
<td>PEP 660</td>
<td>Psy Ex Hlth (3)</td>
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**Research requirements**

**Master of Arts, research paper/creative project**

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<th>Course Title</th>
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<tr>
<td>PEP 601</td>
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<tr>
<td>RES 697</td>
<td>Research Ppr (1-3)</td>
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<td>or</td>
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<tr>
<td>CRPRJ 698</td>
<td>Creat Proj (3 or 6)</td>
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**Master of Science, thesis**

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXSCI 611</td>
<td>Res Methods (3)</td>
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<tr>
<td>THES 698</td>
<td>Thesis (1-6)</td>
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**Electives (approved by program coordinator)**

6-9

33 hrs

### Athletic Coaching Education, 33 hours

**Core requirements**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Phy Prep Con (3)</td>
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<td>612</td>
<td>Grw Dev (3)</td>
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<td>618</td>
<td>Skill Tact (3)</td>
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<td>Eval Coach (3)</td>
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<td>632</td>
<td>Phil Ethic (3)</td>
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<tr>
<td>670</td>
<td>Sp Saf Inj (3)</td>
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<tr>
<td>675</td>
<td>Teach Motiv (3)</td>
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<tr>
<td>692</td>
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**Research requirements**

**Master of Arts**

Choose one

**Master of Arts, internship**

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<td>PEP 600</td>
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**Master of Arts, research paper/creative project**

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<td>PEP 600</td>
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<tr>
<td>CRPRJ 698</td>
<td>Creat Proj (3)</td>
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**Master of Science, thesis**

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<tr>
<td>EXSCI 611</td>
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<tr>
<td>THES 698</td>
<td>Thesis (1-6)</td>
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</table>
Teacher Education, 33 hours

Core requirements
PEP 612 Motor Dvlpt 3
613 Phys Fit Sem 3
616 Motor Behavr 3
630 Eval P E 3
685 P E Curr 3
695 Tch Methodol 3

Professional requirements
6 hours from
EDFON 631 Philosphy Ed (3)
EDMUL 660 Mlti Clt Eth (3)
EDPSY 600 Adv Ed Psy (3)
EDSEC 534 Class Mgt (3)
EDTEC 650 Curric Tech (3) 6

Research requirements
Master of Arts, research paper/creative project
PEP 601 Research App (3)
RES 697 Research Ppr (1-3)
or
CRPRJ 698 Creat Proj (1-3) 6

Master of Science, thesis
EXSCI 611 Res Methods (3)
THES 698 Thesis (1-6) 9

Directed electives
EDPSY 641 Statist Meth (3)
EXSCI 634 Mech Anls (3)
PEP 594 Tec PE Disab (3)
608 Motor Learn (3)
609 Sp Psy (3)
690 Sp Sociology (3) 0-3

33 hrs

DOCTOR OF PHILOSOPHY IN HUMAN BIOENERGETICS

The doctor of philosophy (PhD) degree in human bioenergetics is designed to prepare students for research careers in exercise physiology. It is conducted in cooperation with the Department of Biology.

Admission requirements

Applicants must meet the admission requirements of the Graduate School; have a master’s degree from an accredited institution in physical education, biology, or other appropriate majors; have a grade-point average (GPA) of 3.2 on a scale of 4.0; complete the Graduate Record Examination (GRE); submit three letters of recommendation; demonstrate interest and ability to conduct independent research; and obtain the approval of the Human Performance Laboratory selection committee.

Degree requirements

Students must complete a minimum of 90 hours of graduate work including the dissertation and master’s degree hours. In addition to the core requirement, one 24-hour cognate or two 15-hour cognates in such related fields as biology, physiology, and chemistry are required. Students must complete the dissertation (DISS 799) for 10-24 hours on research problems that will contribute new knowledge to the field. Candidates will take final oral examinations given by their PhD committees when the dissertation is completed.

PREFIX NO SHORT TITLE CR HRS

Core requirements
EXSCI 603 Exer Phys 1 3
623 Prin Ex Test 3
630 Exer Phys 2 3
637 Appl Physl 3

Cognate(s) 24-30
Dissertation 10-24
Electives 8-13
Master’s degree hours (maximum allowed) 30

90 hrs

Students with two 15-hour cognates will complete 10 elective hours; students with one cognate (24 hours) will complete 15 elective hours.
ATHLETIC COACHING EDUCATION
(ACE)

604 Physical Preparation and Conditioning. (3) Study of the response of physiological systems to training and conditioning, design training and conditioning programs, the effects of nutrition on health and performance, and the use and abuse of drugs in athletes.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

610 Psychology of Coaching. (3) Study of the social psychological forces that have profound effects on the interactions of coach and athlete.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

612 Growth and Development for Coaches. (3) Study of the physical, social, and emotional development of athletes from youth through adulthood, providing experiences appropriate to the development period.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

618 Skills and Tactics for Coaches. (3) Study of competitive tactics and strategies, scouting, practice planning, and some analysis in athletics.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

625 Evaluation in Coaching. (3) Includes development of athlete, team, athletic personnel, and program evaluation procedures.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

632 Philosophy and Ethics. (3) The study of methods to reinforce and advocate for positive opportunities resulting from sport involvement, values to be developed through sport involvement, ethical conduct, and how to facilitate social and emotional growth of athletes.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

670 Sport Safety and Injury Prevention. (3) Includes methods for recognizing and ensuring safe playing conditions; role of protective equipment and proper conditioning procedures for injury prevention; management of injuries.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

675 Teaching and Motivation for Coaches. (3) The study of the use of effective teaching methods to introduce and refine sport principles and technical skills and to appropriately and effectively motivate athletes.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

688 Current Issues in Coaching Research. (3) In-depth study of emerging research in coaching athletic teams. Special emphasis on collecting, analyzing, and applying research from related disciplines for application to future research on coaching.

Prerequisite: permission of the graduate coaching program coordinator; PEP 601.
Open only to students in coaching specialization.

692 Organization and Administration for Coaches. (3) Studies the development of objective and effective procedures for the evaluation and selection of personnel involved in athletic programs and for program reviews, facilitation of appropriate emergency care procedures, legal responsibilities associated with coaching, and organization required for implementing sport programs.

Prerequisite: permission of the graduate coaching program coordinator.
Open only to students in coaching specialization.

ATHLETIC TRAINING (AT)

577 Psychology of Injury Rehabilitation. (3)
Presents the psychological impact of musculoskeletal injury and related factors involved in the rehabilitation process. Includes the sociocultural, mental, emotional, and physical behaviors of patients involved in injury rehabilitation.

Prerequisite: AT 373 or PEP 609.
Not open to students who have credit in AT 477.

EXERCISE SCIENCE (EXSCI)

600 Internship in Exercise Science. (1-6)
An in-depth practical experience in the application of knowledge and skills related to one of the specialization areas within exercise science.

Prerequisite: permission of the program coordinator.
A total of 6 hours of credit may be earned.

603 Exercise Physiology 1. (3)
Advanced study of the physiological responses to exercise. Emphasis is on the neuromuscular, metabolic and cardiorespiratory responses.

Prerequisite: permission of the program coordinator.

604 Essentials of Resistance Training and Conditioning. (3)
Designed to give the scientific basis of resistance training and conditioning and the ability to apply that knowledge with specific training techniques.

Prerequisite: permission of the program coordinator.

611 Research Methods (Thesis). (3)
Focuses on research methods used in physical education, sport, and exercise science. Emphasizes selecting a research topic, writing and presenting a research proposal, and using appropriate statistical methods.

Prerequisite: permission of the program coordinator.

622 Foundations of Adult Physical Fitness. (3)
Introduction to the exercise specialist curriculum. Provides the foundation for acquiring the philosophy, principles, and guidelines for establishing and directing adult fitness programs.

Prerequisite: permission of the program coordinator.

623 Principles of Exercise Testing and Interpretation. (3)
Involves the study of the theoretical bases for exercise testing and the practical procedures used in pre-exercise screening and exercise testing. Students will learn how to interpret information from pre-exercise screening and apply this to the selection of appropriate exercise test protocols. Interpretation of results from various exercise test protocols will be emphasized using a case-study approach.

Prerequisite: permission of the program coordinator.

630 Exercise Physiology 2. (3)
Examines the physiological adaptations resulting from aerobic and anaerobic exercise training as well as from environmental stress.

Prerequisite: permission of the program coordinator.

633 Seminar in Exercise Science. (1-6)
In-depth study of a selected physiological parameter in relation to exercise and the environment. Specific topics include respiratory physiology, fluid-electrolyte balance, muscle physiology, environment, and exercise: one topic per semester.

Prerequisite: permission of the program coordinator.
A total of 6 hours of credit may be earned.

634 Mechanical Analysis of Movement. (3)
Applications of the principles of mechanics to the analysis of motor skills; study of methods of execution of various athletic and sporting skills.

Prerequisite: permission of the program coordinator.

637 Applied Physiology. (3)
A concise summary of physiology as applied to human bioenergetics using an organ-system approach.
84

Prerequisite: permission of the program coordinator.

638 Electrocardiography. (3) A concise summary of cardiac electrophysiology. Identification of normal and abnormal resting and exercise electrocardiograms (ECG). Effects of various cardiac medications on resting and exercise ECG will be discussed.

Prerequisite: permission of the program coordinator.

639 Seminar in Cardiac and Pulmonary Rehabilitation. (3) Study of the characteristics of contemporary cardiac and pulmonary rehabilitation programs. Includes an overview of routine diagnostic assessments, exercise prescription principles, and program administration issues associated with these rehabilitation programs. Also includes a review of current research related to cardiac and pulmonary rehabilitation.

Prerequisite: EXSCI 622, 623, 638; permission of the program coordinator.

640 Exercise in Prevention and Rehabilitation of Chronic Diseases. (3) Covers the role of regular aerobic exercise and/or resistance training in the prevention and rehabilitation of various chronic diseases through discussions of disease etiology and review of available exercise training literature.

Prerequisite: permission of the program coordinator.

651 Laboratory Techniques in Biomechanics. (3) Theoretical and practical applications of data recording methods commonly used in biomechanical analysis.

Prerequisite: permission of the program coordinator.

652 Clinical Biomechanics. (3) Biomechanical concepts related to disorders of the skeletal system.

Prerequisite: permission of the program coordinator.

655 Advanced Biomechanics. (3) Biomechanical analyses emphasizing research techniques and procedures.

Prerequisite: EXSCI 634; permission of the program coordinator.

698 Internship in Fitness and Cardiac Rehabilitation. (1-3) Provides practical experiences in physical fitness and clinical assessments and in exercise programming in both health/fitness and clinical environments.

Prerequisite: permission of the program coordinator.

A total of 3 hours of credit may be earned.

699 Independent Study. (1-3) Designed for students who wish to conduct independent study in exercise science.

Prerequisite: permission of the program coordinator.

A total of 3 hours of credit may be earned.

PHYSICAL EDUCATION: PROFESSIONAL (PEP)

560 Development of Exercise Program for the Older Adult. (3) Characteristics of the older adult and the implications of the aging process for exercise potential. Students will plan, implement, and evaluate a program of activity based upon the special needs of the older adult.

Not open to students who have credit in EXSCI 312.

594 Teaching Physical Education to People with Disabilities. (3) Understanding of the various physical (orthopedic, muscular-skeletal, cardiovascular, and postural) defects and sensory (hearing and sight) disorders in relation to physical education programming and activities.

595 Medical Aspects of Sport and Physical Activity. (3) A collection of knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity.

Prerequisite: AT 370, 371, 372, 373; permission of the instructor.

Open only to athletic training and nursing majors.
600 Internship in Sport and Physical Education. (1-6) An in-depth practical experience in the application of knowledge and skills related to one of the specialization areas within sport and physical education.

Prerequisite: permission of the graduate coordinator.

A total of 6 hours of credit may be earned.

601 Research Applications (non-Thesis). (3) Examination of research related to sport studies. Emphasis placed on the critical evaluation of research and its applicability to practice.

602 Technology Applications in Sport and Physical Education. (3) An introduction to technology and its application in sport and physical education. Emphasis placed on cutting-edge hardware and software available to the practitioner.

608 Motor Learning. (3) A study of the relationship between principles of psychology and the learning of motor activities. Classroom and laboratory experience.

609 Sport Psychology. (3) Introduces the field of sport psychology, emphasizing the role of psychological phenomena in behavior in sport and physical activity settings and how participation in sport and physical activity influences the psychological characteristics of the individual.

612 Motor Development. (3) Lifespan human motor development emphasizing major theoretical viewpoints, research methodology, and conditions affecting motor development including physical growth, physiological change, perceptual change, cognitive change, sociocultural practices, and intervention.

613 Physical Fitness Seminar. (3) The role of physical fitness in society today with emphasis on scientific principles and methods for developing physical fitness. Promotion and future directions of physical fitness programs.

616 Developing Motor Behavior: Theory and Practice. (3) Focus on the theory and practice of movement skill learning with emphasis on Laban’s movement analysis framework, stages of learning, teaching styles, and application of research findings to the instructional setting.

619 Introduction to Adapted Physical Education. (3) Designed to expand graduate students’ knowledge in the area of adapted physical education activity. Framed around the national standards, or APENS, and prepares students to take the national certification exam.

620 Physical Education Workshop. (1-8) Workshop offerings: physical education and sports, athletic training, officiating and judging, athletic administration, and specialized coaching.

A total of 8 hours of credit may be earned.

621 Assessment in Adapted Physical Education. (3) Students will review how to establish appropriate program placement in the least restrictive environment (LRE) for students with disabilities in physical education. Students will administer, interpret, plan, and develop appropriate programming using their assessment data. Students will develop a top-down plan based on their assessment results.

630 Evaluation in Physical Education. (3) Designed to acquaint learners with various types of performance-based assessments and show how they can be integrated into the curriculum to enhance student learning.

644 Psycho-Social Processes of Sport and Physical Activity. (3) Focuses on dynamic nature and function of sport teams and physical activity groups. Topics include group structure, norms, and roles; motivation and climate; and group/team identity, cohesion, and leadership. Introduces concepts, principles, theories, and practical applications.

660 Psychology of Exercise and Health. (3) Provides an overview of psychological and social issues related to exercise and health behavior. Emphasizes understanding concepts, principles, and theories, and their application in the practice of promoting and supporting regular exercise participation and positive health behaviors.
685 Curriculum Development in Physical Education. (3) Curriculum development in physical education focusing on current theories and models including conditions affecting the curriculum, proper scope and sequence, scheduling, implementation and change theories, and curriculum evaluation techniques.

690 Sport Sociology. (3) An insight into America’s heritage of sports and physical education and how this and various cultural and social institutions influence contemporary sports in the United States.

695 Current Teaching Methodology in Physical Education. (3) The sequential experiences of public school children, special problems encountered, and methods for improving the effectiveness of teaching physical education.

696 Advanced Techniques in Athletic Training. (3) Study in the administration of and techniques involved in athletic training practice.

699 Independent Study. (1-3) Designed for students who wish to conduct independent study in physical education.

SPORT ADMINISTRATION (SPTAD)

603 Sport Administration Ethics and Philosophy. (3) The ethical and philosophical concepts that determine the direction and reputation of amateur and professional sport programs will be identified and applied to major issues and problems facing the sport industry.

605 Organization and Administration of Recreation Programs. (3) Study of the general functions and overall operations of recreational programs, services, and facilities.

606 Operations and Oversight of Aquatic Facilities. (3) The study of aquatic specific issues to include water quality, operations treatment and control systems, facilities management, planning, and introduction to common legal concerns at the Local, State and Federal level. An optional pool operation certification can be attained with successful testing completion.

611 Sport Marketing and Promotions. (3) The application of the principles of promotion and marketing to the sport and fitness industry including the areas of professional sports, corporate fitness, college/high school athletics, clubs, and resorts.

615 Sport Law. (3) Demonstrates the necessity of a working knowledge of sport law as a tool of strategic management, as a tool in effective negotiations, as a tool of risk management, and as a tool for gaining competitive advantage.

617 Financial Principles in Sport. (3) Examination of issues and economic forces impacting public and private funding sources relied upon by professional, intercollegiate, and interscholastic sport organizations including allocated funds (i.e. student fees, tax revenue, and appropriations) and generated funds (i.e. ticket sales, fundraising, sponsorship, and media rights). Introduces the role of budgeting and financial analysis.
619 Sport Facility and Event Administration. (3) Affords students the opportunity to study techniques and strategies for successful planning, implementation, and evaluations of events as well as the planning, construction, and maintenance recommendations for sport related facilities. Students will gain practical experience in creating and conducting an event during the course.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors.

628 International and Comparative Administration of Sport. (3) An investigation of the nature and role of the sport industry of different world regions. Includes an analysis of selected national systems, international and comparative sport management, and application of theory to manage the growing diversity in US sport organizations due to growing migration of athletes, coaches, and professionals.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors.

676 Sport Administration Theory and Policy Development. (3) Case studies and other techniques will be utilized to challenge students to think systematically about issues that confront professional managers and will therefore produce critically thinking managers for sport organizations. Includes an overview of management theory as it relates to sport organizations.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors.

677 Intercollegiate Athletics Policy. (3) Examines historical foundations of intercollegiate sport, the development of sport in higher education, and the contemporary business landscape of college sports. Explores policy development at the institutional and national governance level including the effect of NCAA policy on member institutions. Surveys the NCAA Manual including amateurism, recruiting, and eligibility legislation.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors.

691 Sports in the USA on Film: A Historical Perspective. (3) An investigation of the history of American sport. Recognizing the need for history to compete with the popular media for student attention, this course combines theoretical readings with feature films and documentaries to probe the articulation of ideologies and identities, play and power, sporting worlds and social fields.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors.

695 Administration of Personnel in Sport. (3) Provides students an understanding of the functions, basic concepts, and principles of human resource management, and prepares them for sport related employment as either manager or employee. Explores HRM theories, research, and discusses current issues, trends, and practices emphasizing the fundamentals of managing individuals and groups.

Prerequisite: permission of the program coordinator.

Open only to physical education and sport: sport administration majors or permission from the program coordinator.

698 Internship in Sport Administration. (6-9) A field assignment with an appropriate sport administration organization or agency.

Prerequisite: permission of the coordinator of graduate studies in sport and physical education; completion of 18 credits in the program.
PROGRAMS

Master of arts (MA) in technology education and in career and technical education; an alternative route to a secondary license in technology education

MASTER OF ARTS IN CAREER AND TECHNICAL EDUCATION

The program is designed for students who wish to acquire an advanced level teacher license in career and technical education or to add a career and technical area to a current teacher license of another area. The degree is also designed for post-secondary educators of trade-related programs or persons in industry seeking a program that includes training techniques, safety, and technical courses. This program may be completed entirely through distance education.

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

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Professional courses: must complete at least 9-18 hours

Research requirements

3-9 hours from

| ITEDU  | 699 | Rsrch Tch Ed (3) | 3-9 |
| THES   | 698 | Thesis (1-6)    | 3-9 |

Directed electives (with approval of program advisor) 3-18

of program advisor) 3-18

All professional courses in the CTE program are required for Indiana Career and Technical Education teacher license in a trade and industrial program area. ITEDU 699 is a program requirement and a prerequisite for those seeking the thesis option.

MASTER OF ARTS IN TECHNOLOGY EDUCATION

Designed for students whose educational goals are to increase and update their knowledge and skills in technology education. The degree requires 30 graduate hours with courses in technology education, research, and directed electives. Students select a thesis or non-thesis option. This program may be completed entirely through distance education.

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

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Professional courses: must complete at least 15 hours

Research requirements

3-9 hours from

| CRPRJ  | 698 | Creat Proj (3 or 6) | 3-9 |
| ITEDU  | 699 | Rsrch Tch Ed (3)    | 3-9 |
| THES   | 698 | Thesis (1-6)        | 3-9 |
Directed electives (with approval of program advisor)  6-12

ITEDU 699 is a program requirement and a prerequisite for those seeking the thesis option.

ALTERNATIVE ROUTE TO A SECONDARY LICENSE IN TECHNOLOGY EDUCATION

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18 hrs

Open only to Indiana-licensed educators.

DIRECTOR OF CAREER AND TECHNICAL EDUCATION

Initial Practitioner License Requirements

Designed for students who seek a Director of Career and Technical Education license required for administering career programs and facilities. This addresses Indiana license requirements.

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

Who can qualify?

Candidates must meet one of the following:

1. A career and technical proficient practitioner license. A workplace specialist proficient practitioner instructional license with a master’s degree or higher.
2. A standard license with two (2) years of full-time teaching experience in an accredited school in the grade level and a vocational education content area listed on the license.
3. A proficient practitioner license as a superintendent or building level administrator.
4. A Workplace Specialist proficient practitioner instructional license with a master’s degree or higher.
5. An Occupational Specialist II or III with a master’s degree or higher and two (2) years of full-time teaching experience in an accredited vocational school in the grade level and vocational education content area listed on the license.
6. A proficient practitioner license as a superintendent or building level administrator.
7. A proficient practitioner license as a school counselor and any instructional proficient practitioner license.
8. A standard or provisional secondary administration and supervision license with two (2) years of full-time experience as superintendent or assistant superintendent in an accredited P-12 school district.
9. A standard or provisional secondary administration and supervision license with two (2) years of full-time experience as a principal or assistant principal in an accredited junior high school, middle school, or high school.
10. A standard or provisional school counseling license with two (2) years of full-time experience as a school counselor and any standard or provisional teaching license with two (2) years of full-time teaching experience as a teacher in an accredited K-12 school.
11. A valid proficient practitioner business education or technology education instructional license.
12. A standard or provisional business education or industrial technology license with two (2) years of full-time experiences as a business education or industrial technology teacher in an accredited junior high school, middle school, or high school.
Also required:

Successful completion of the School Leadership Licensure Assessment (SLLA) test or proof of a valid administrative license.

Verified valid CPR certification through a State approved training program.

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| FCSED | 692| FCS Ed Prog (3)   |        |
| ITEDU | 568| Prin CTE Ed (3)   | 3      |

3 hours from

| BED   | 593| Phil Org Adm (3)  |        |
| ITEDU | 569| Org Crd CTE (3)   | 3      |

3 hours from

| BED   | 592| Lab/Coop Pgm (3)  |        |
|       | 594| Survey CTE (3)    |        |
| ITEDU | 552| Strt Mat CTE (3)  |        |
|       | 696| Cond Coop Ed (3)  | 3      |

3 hours from

| EDPSY | 640| Methodology (3)   |        |
| FCS    | 697| Res Methods (3)   |        |
| ITEDU  | 699| Rsrch Tch Ed (3)  | 3      |

30 hrs

INDUSTRY AND TECHNOLOGY: DEPARTMENT (ITDPT)

530 Statistical Quality Control. (3) Emphasis on application of statistics to quality control. Includes hypothesis testing, statistical process control, measurement systems analysis, tolerance analysis, multivariate analysis, sampling plans, and review of current quality standards.

563 Design of Experiments. (3) Extensive study of experimentation in organizational research. Includes, but is not limited to, single-factorial, multi-factorial, robust design, and Design for Six Sigma (DFSS).

Prerequisite: ITDPT 530.

604 Six Sigma Concepts. (3) Introduces the tenets of Six Sigma and Lean performance. Uses statistics to develop analytical and problem solving skills. Topics include: project planning and time management, tactical and strategic planning, process mapping, survey development and Chi-square analysis, and other advanced Six Sigma and Lean tools.

610 Six Sigma for Service. (3) Six Sigma for research focused on service organizations such as government, transactional, and health care; and service functions of other organizations. Prerequisite: ITDPT 604.

620 Six Sigma Capstone Project. (3) As a capstone experience, students will be required to successfully complete a Six Sigma Black Belt project during their final semester. Prerequisite: permission of the instructor and FIN 500 or MBA 661.

TECHNOLOGY: EDUCATION (ITEDU)

510 Technology: Use and Assessment. (3) Analyzes the use and assessment of technology. Topics include usability testing, user surveying, technology assessment techniques, environmental impact assessment, and forecasting.

550 Career and Technical Education Student Organizations. (3) Emphasizes the development, operation, and evaluation of career and technical education student organizations, with a concentration on co-curricular organizations.

552 Strategies and Materials for Career and Technical Education. (3) A study of resources,
instructional materials, and strategies for career and technical education programs.

564 Practicum in Technology Education for Elementary Grades. (3) Study and field practice of the philosophy, psychology, and objectives of integrating technology education in the elementary and special education classes. Students develop and integrate technology-based curricula in the classroom. Strategies related to classroom organization, physical planning, and tool and material acquisition are discussed and implemented. 10 to 20 hours spent in contact with children.

568 Principles and Philosophy of Career and Technical Education. (3) Principles and philosophies of career and technical education programs are investigated. The role of legislation is analyzed.

    Not open to students who have credit in ITEDU 690.

569 Organization and Coordination of Career and Technical Education. (3) Examines organizational structures, responsibilities, programs, and facilities dedicated to career and technical education. Current legislation directly impacting these programs will also be examined.

600 Special Topics. (1-3) The title and description are determined for each offering, allowing students to engage in relevant investigations in the changing field of technology.

    Prerequisite: permission of the department chairperson.

    A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

635 Implementing Technology Education. (3) A laboratory-based experience that emphasizes the implementation of technology education.

636 Implementing Communication Technology Education. (3) A study of the concepts and strategies used in teaching communication technology classes (grades 6-12). Emphasizes graphic, electrical, visual, acoustic, and mass-communication systems and their effects on people and society.

637 Implementing Construction Technology Education. (3) A study of the concepts and strategies used in teaching construction technology classes (grades 6-12). Emphasizes designing and constructing structures and community planning activities and their effects on people and society.

638 Implementing Manufacturing Technology Education. (3) A study of the concepts and strategies used in teaching manufacturing technology classes (grades 6-12). Emphasizes industrial materials, processes, and management systems; their application to industrial enterprises; and their effects on people and society.

639 Implementing Transportation Technology Education. (3) A study of the concepts and strategies used in teaching transportation technology classes (grades 6-12). Emphasizes the design, use, and effects of transportation systems and related energy-conversion techniques in modern society.

690 History and Philosophy of Technology Education. (3) An examination of the historical development and philosophical foundations of technology education.

    Not open to students who have credit in ITEDU 568.

691 Strategies and Materials for Teaching Technology Education. (3) A study of individualized and group teaching and learning strategies and the selection, production, and use of instructional materials to support them.

694 Curriculum Development in Technology Education. (3) A review of the philosophical, sociological, and psychological bases for curriculum analysis and development in technology education.

695 Curriculum Evaluation in Technical Education. (3) Serves diverse needs of online graduate students who are preparing to be K-12 teachers, administrators, trainers, or evaluators in technology education or career and technical education, or STEM fields (science, technology, mathematics, engineering). Students in these
fields will find the references to technological literacy and technical settings to be especially informative.

696 Coordinating and Conducting Cooperative Education Programs. (3) Examines the regulations and guidelines governing the coordination of cooperative education programs and unique methods and strategies used to facilitate work-based learning.

697 Problems in Technology Education. (1-3) Independent study in advanced industrial or professional techniques. 

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

698 Seminar in Technology Education. (3) An exploration of current problems and issues in technology education.

699 Research in Technical Education. (3) A review of existing research in technology education and career and technical education with reference to its scope and usefulness. Design and interpretation of individual or group research is required.

INDUSTRIAL TECHNOLOGY: MANUFACTURING (ITMFG)

508 Problems in Computer-Aided Design and Drafting. (3) Emphasizes two- and three-dimensional modeling applications in design and manufacturing using a CAD system.

Prerequisite: a technical drawing course or permission of the department chairperson.

526 Advanced Plastics Technology. (3) Individual investigation of problems and new developments in the plastics (synthetics) industry. Problem solving, research, and experimentation with product design and associated mold making is encouraged. Prior experience in plastics is essential.

Prerequisite: ITMFG 225 or the equivalent.

560 Occupational Safety and Health. (3) Study of the practices used to ensure a safe and healthy environment for industrial and educational sectors. Examines hazard recognition and correction and the impact of safety and health regulating agencies.

563 Manufacturing Operations. (3) Focuses on activities associated with the design and installation of industrial production methods and facilities. Laboratory activities offer opportunities to perform basic tasks associated with developing a production system.

570 Advanced Studies in Electronics. (3) Individual study of major problems in electronics. Applies new techniques and developments to these problems and experiments.

580 Advanced Studies in Graphic Arts. (3) Individual study of new developments in graphic arts. Provides opportunities to study new developments in light-sensitive materials, computer applications in graphic arts processes, and current industry trends.

585 Inquiries into 3D Prototyping. (3) An introduction to an inquiry-based, iterative approach to 3 dimensional laser scanning, rapid prototyping technologies, laser machining, and CNC machining; students use R & D methods to produce and refine digital 3D product designs and manufacture prototypes.

Not open to students who have credit in ITDPT 280.

590 Developing Human Resources. (3) Activities, roles, and competencies of human resource developers in industrial organizations. Emphasizes activities that allow for the development of selected HRD competencies.
The Fisher Institute for Wellness and Gerontology sponsors two distinct but related programs in Wellness Management and Applied Gerontology. Each program has academic, research, and service components. Academic programs include master’s degrees in wellness management and a master’s degree, an undergraduate minor, and certificate programs in applied gerontology. Services include wellness residence halls, faculty and staff health assessment and screening, and campus and community health screening and educational programs. One such community educational program is the annual Kirkpatrick Memorial Conference on Aging. Graduate students assist in the provision of all services offered through the institute.

The research mission of the institute is to assist corporations, community agencies, and health care facilities in designing, implementing, and evaluating programs dedicated to lifespan wellness. Major research topics of the institute include development and investigation of a multidimensional systems model for lifespan wellness and the application of the Ball State Model for Wellness in assessment of individuals, worksite programs, health care facilities, and community organizations. Research interests also include effective techniques for reducing health care costs, motivating people to practice wellness-related activities, and the effects of health behaviors on longevity, morbidity, and mortality.

In general, the institute is concerned with the processes of maintaining well being for people, organizations, communities, and societies. Both faculty and student research are related to this broad focus on keeping people well and developing techniques for achieving higher levels of functioning across the lifespan.

Students receiving degrees in wellness management and/or applied gerontology will enter a rapidly expanding job market for wellness and gerontology professionals. Typical work settings include corporations, hospitals, YMCAs, entrepreneurial businesses, health care facilities, governmental agencies, and educational institutions. Graduates will be challenged to solve the difficult problems of meeting the wellness needs of people and organizations in an aging society. The challenges and opportunities are limited only by the energy, talent, and imagination of each graduate.

**PROGRAMS**

Master of arts (MA) and master of science (MS) in wellness management; master of arts in applied gerontology

**MASTER OF ARTS IN APPLIED GERONTOLOGY**

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School. A grade-point average (GPA) of 3.0 on a scale of 4.0, a combined score of 900 on the verbal and quantitative sections of the Graduate Record Examination (GRE), and/or approval of the program director for gerontology are required for acceptance into the program.

**Degree requirements**

The minimum requirement for the degree is 36 hours, including a core of gerontology courses, a research experience, and electives in related areas.

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The course work for the degree in applied gerontology may be completed in one year or it may be combined with another degree program in order to obtain a double major. For example, a student in an MA program in adult education, biology, counseling, physical education, wellness management, etc. may take the core course requirement in gerontology and then apply related electives and internship experience to a degree in applied gerontology.

The master’s degree in applied gerontology is an interdisciplinary degree that provides the student with a broad-based overview of aging, as well as more focused training in a selected area of study. Faculty from wellness, health sciences, educational psychology, sociology, counseling, physical education, nutrition, nursing, and other disciplines teach a variety of courses on special issues in aging and in serving an older population.

Educational programs are focused on three levels: exposure to information about processes of aging and the needs of an aging society for a wide variety of students and the general public; proficiency training of professionals and other service providers who are involved with serving older adults; and the development of expertise for professionals who are planning to specialize in geriatric services.

Research programs center on two aspects of gerontology: interdisciplinary studies of the processes of aging and applied research regarding the delivery of services and program evaluation.

The faculty provide consultation, training, and other resources for agencies serving an older clientele and for community groups of older adults.

In addition to the MA degree in applied gerontology, several other options are available for the study of gerontology, including an undergraduate minor, a graduate minor, an undergraduate certificate, and a graduate certificate. A curriculum advisor is available to discuss these options with any interested student.

**MASTER OF ARTS AND MASTER OF SCIENCE IN WELLNESS MANAGEMENT**

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School and have grade-point averages (GPA) of 3.0 on a 4.0 scale, Graduate Record Examination (GRE) scores of at least 1000 (quantitative and verbal), and the approval of the director of the Fisher Institute for Wellness and Gerontology. Students who do not meet these standards may be admitted on probation at the discretion of the director. Students will be removed from academic probation upon successful completion (GPA of 3.0 or higher) of 9 semester hours of
approved course work. As a prerequisite for entry into the program, all students without undergraduate course work in allied health will be required to complete up to three basic undergraduate courses in health-related disciplines. All students will be required to participate in selected university and community wellness activities as part of the wellness management major.

Students who have not completed an undergraduate major or minor in business and an undergraduate major or minor in a health-related discipline will be required to complete graduate course work in these areas in addition to the core course work. Students without an undergraduate major or minor in business are expected to complete the minor in general foundations of business for wellness majors.

Students without an undergraduate major or minor in an approved allied health field will be required to complete at least 9-12 hours in an approved graduate minor or specialization. Typical areas of specialization include, but are not limited to, applied gerontology, adult education, community education, health science, pre-counseling psychology, exercise leadership, and family and consumer sciences (nutrition).

MASTER OF ARTS IN WELLNESS MANAGEMENT

Degree requirements

The requirement for the degree is 36 semester hours for students who have undergraduate majors or minors in business and a supporting undergraduate major or minor in allied health. Students entering the program without this background will be required to complete a minor in general foundations of business through the Miller College of Business and a 12-hour allied health minor. All students complete the wellness core.

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RES     697  Research Ppr (1-3) 3

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36 hrs

The master’s degree in wellness management is an interdisciplinary degree that coordinates the university’s strong resources to give students comprehensive training in wellness. Faculty from physical education, food and nutrition, psychological sciences, health science, and the Miller College of Business combine knowledge and skills in a well-rounded and challenging curriculum.

MASTER OF SCIENCE IN WELLNESS MANAGEMENT

The requirement for the degree is 39 semester hours for students who have undergraduate majors or minors in business and a supporting undergraduate major or minor in allied health. Students entering the program without this background will be required to complete a minor in general foundations of business through the Miller College of Business and a 12-hour allied health minor. All students complete the wellness core.

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39 hrs
MINOR IN GENERAL FOUNDATIONS OF BUSINESS

For wellness majors only. Students must have an approved program of study on file in the Miller College of Business.

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15 hrs

Students who have credit in any equivalent undergraduate course may substitute the following:

BL 560 Survey B L 3
FIN 500 Corporation 3
MGT 640 Entrep Innov 3
661 Hman Res Mgt 3

All substitutions will be approved by the Miller College of Business.

GERONTOLOGY (GERON)

515 Technology in Aging. (3) Explores the impact of assistive and other technologies on the lives of aging adults. Identification of technologies, utilization by and for aging adults, and implications for service delivery will be explored.

Not open to students who have credit in GERON 415.

535 Aging in Communities. (3) Focus on community aging as it applies to all the dimensions of life: biological, physiological, sociological, psychological, political, occupational, economical, educational, familial, and societal.

Not open to students who have credit in GERON 435.

540 Women and Aging. (3) Typical lifespan occurrences that largely impact women such as elder caregiving, familial systems maintenance, widowhood, health changes, and economic issues will be explored. Historical and theoretical perspectives; introduction to health, psychological and living issues; introduction to racial and ethnic diversity; and social relationships will also be covered.

Not open to students who have credit in GERON 440.

592 Workshop in Applied Gerontology. (1-10) Preservice or inservice education in selected topics in applied gerontology using a workshop format of concentrated study, presentations, demonstrations, and practice. Specific content will depend upon the problem or special interest with which the workshop is concerned. Learners are encouraged to work out a program of personal study with help from other workshop participants and resource persons.

Prerequisite: permission of the director. Credit may be applied to a major or minor in applied gerontology only with permission of the program director for gerontology.

A total of 10 hours of credit may be earned in this course or in combination with GERON 392.

598 Topical Seminar in Applied Gerontology. (3-6) Individual and group investigation of topics, problems, or issues in applied gerontology with discussion by all seminar participants under the guidance of the instructor.

Credit may be applied to a major or minor in applied gerontology only with permission of the program director for gerontology.

A total of 6 hours of credit may be earned in this course or in combination with GERON 398.

605 Aging Well: A Systems Approach. (3) An application of the Fisher Institute Wellness Model to the processes of aging well. Seven dimensions of wellness will be examined, highlighting the potential for successful aging. Emphasizes mid-life to late-life challenges and how the principles of systems theory deepen understanding of wellness and aging.
610 Public Policy and Aging. (3) Emphasis on the governmental infrastructure that facilitates the development and implementation of policy that impacts aging Americans and the public and private response to policy initiatives.

615 Wellness and Aging: Practical Applications for Health Professionals. (3) Evidenced-based wellness and aging content for health professionals. Experience leading intergenerational discussions and conducting health contracts with older adults.

620 Guided Life Review. (3) Learn the skill of helping older adults produce written components of a life review. These components include family of origin, marriage, children, grandchildren, work career, major historical events, retirement, health, meaning and purpose, aging and death, and major turning points.

625 Changing Health/Wellness Behaviors. (3) Focus on helping adult clients increase exercise, improve nutrition, stop smoking, and manage stress using the instructor’s field-tested health contract/calendar technique. Also includes theory, assessment, support groups, cultural competency, health materials, and proposal writing. Special emphasis on older adults.

630 Health, Wellness, and Aging. (3) An overview of the aging process and old age with specific emphasis on health. The range of topics includes exercise, nutrition, clinical preventive services, health behavior, mental health, professional-client communication, model programs, diversity, and public policy.

635 Aging Well: Adaptations in Later Life. (3) Examination of the adaptations of the last half of the life span (i.e. ages 50-100+). Content includes the various theories of aging, multidimensional perspectives on changes in health and well-being, and strategies for coping with the change. Emphases are placed on developmental process, adaptations, and mental/emotional changes as people age.

640 Service Learning in Gerontology. (3) Students will take a leadership role in a community-based project and apply research, theory, knowledge, and skills.

Prerequisite: GERON 605 and at least one additional core course.

641 Practical Applications of Gerontological Programming. (3) Students will focus on applying research, knowledge, and skills to deliver gerontological programming. Techniques for delivery and management of gerontological programs and evaluating effectiveness of programs/interventions will be examined.

Prerequisite: GERON 605, 640, and one additional core course.

699 Internship in Gerontology. (1-6) Experience in one or more of the agencies, institutions, or programs now providing gerontological services or otherwise related to gerontology. Carried out under the joint supervision of the program director and a practitioner representing the agency, institution, or program. A student chooses the setting with guidance from a faculty sponsor and approval of the practitioner.

Prerequisite: permission of the program director.

A total of 6 hours of credit may be earned.

WELLNESS (WELNS)

605 Wellness Management Administration. (3) Improving the efficiency of administrative tasks and communication practices can greatly impact wellness management practice. This class focuses on computer skills and technologies important for wellness program administration, including developing budgets, communicating effectively, and writing and administering grants and contracts.

625 Community Collaboration and Service Learning in Wellness Management. (3) During this course, students assist in the administrative functions of community-based, professionally led wellness management projects.

630 Wellness Programming for Health and Productivity Management. (3) Examination of Health and Productivity Management (HPM) as
a wellness program approach in the workplace. Techniques for delivery and management of HPM programs and cost effectiveness of interventions will be examined.

**635 Wellness Coaching. (3)** This course introduces theory, skills, and techniques related to guiding groups and individuals through meaningful lifestyle changes by emphasizing motivational strategies and behavioral and holistic practices. Features include lifestyle assessments, in-depth wellness and lifestyle change models, basic interviewing and referral skills, and contact with leaders in the wellness field.

**640 Survey of Wellness Policy, Advocacy, and Ethics. (3)** Understanding political and ethical issues impacting well-being plays a role in the success of both individual and system-level changes that lead to more holistic, health-promoting lifestyles. This class introduces wellness program managers and other health professionals to important issues that need to be considered during decision-making processes.

**645 Social Marketing in Wellness Management Practice. (3)** Social marketing is the use of marketing principles and a customer-driven approach when developing health behavior change strategies. This class focuses on helping wellness managers and other health professionals “think like a marketer” as they design, implement, and evaluate wellness-related programs.

**650 Foundations of Wellness. (3)** First-year introduction to a wide variety of concepts and foundational thinking associated with the notion of wellness. Encourages integrative thinking about the meaning and application of wellness in life and in relation to careers as managers in the wellness environment.

**655 Practical Applications for Worksite Wellness. (3)** Focuses on applying research, knowledge, and skills to manage the wellness process.

**660 Critical Issues in Worksite Wellness. (3)** An exploration of critical wellness management issues covering organizational, programmatic, and emerging events affecting wellness and health promotion at the work site.

**665 Technology and Media for Wellness Managers. (3)** Provides wellness professionals with the basic skills to initiate, maintain, and expand technology and media into daily business. Emphasizes obtaining resources, information, skills, and strategies through practical application.

**670 Interdisciplinary Wellness Research Design. (3)** An introduction to basic research design and its application to wellness programs. Emphasizes the interdisciplinary nature of research from wellness-related disciplines and focuses on creating research hypotheses, design, data collection, and analysis.

**675 Alternative and Complementary Therapies. (3)** A graduate seminar focusing on a cultural, philosophical, and intellectual analysis of a selective number of alternative, complementary “medical” delivery systems including their history. Key concepts, methods of delivery, effectiveness, and supportive research data will be reviewed emphasizing their potential for supporting wellness.

**680 Evaluating Health and Wellness Initiatives. (3)** Provides an introduction to logic-model driven program evaluation. The knowledge and skills developed will help participants systematically examine health and wellness initiatives, design data collection methods, analyze information gathered, and generate reports that can be used to improve program services and assess program outcomes.

**697 Special Studies in Wellness. (1-3)** Problems of special interest in wellness. Work under the direction of a staff member. May include one or more of the following: experimental work, attendance in special classes, wide reading, and development of special techniques or skills in wellness management.

**Prerequisite:** permission of the academic coordinator or the director of the institute.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
698 Internship in Wellness Management. (6)
Full-time experience in an approved wellness program. Management experience will be offered at the work site under the joint supervision of a university faculty member and a wellness director responsible for program management.

Prerequisite: completion of the wellness management core requirement.
The College of Architecture and Planning, established by the Indiana Legislature in 1965, is dedicated to the development of professional competency in the functional, aesthetic, and humane design of the physical environment. The primary mission of the college is to offer undergraduate and graduate education programs of high quality in architecture, landscape architecture, and planning and such related subjects as historic preservation and urban design. The college also stresses scholarly and creative activity and public service, including educational service to university students, professionals, and the general public.

The college enrolls approximately 500 students and has more than 45 faculty and professional staff members. Because members of the college faculty have a wide variety of educational and experiential backgrounds and expertise, they approach their work in different ways. The curricula stress dedication, initiative, and a strong commitment to creativity, technical skill, and social and professional responsibility.

The programs are supported by extensive resources. The architecture library contains more than 27,000 volumes. A collection of 60,000 slides is available for use by students as well as faculty members. The Drawings and Documents Archive maintains architectural, planning, and landscape architectural drawings and other materials documenting significant historic sites and structures in Indiana. Each graduate student is assigned individual work space in a studio or graduate office. Additional facilities in the college include wood and metal shops, photography labs, computer labs, and a mobile lab to support off-campus studies.

The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture.

A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Master’s degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

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| ITEDU | 697 | Prob Tech Ed (3)  | 3      |

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Electives, 6 hours from

| ACC    | 501 | Fin Acct (3)      |        |
| BL     | 665 | Law Ethics (3)    |        |
| CAP    | 651 | Research Mth (3)  |        |
| HSC    | 582 | Environ Hlth (3)  |        |
| FCSPM  | 525 | Adv Gov Hous (3)  |        |
|        | 530 | Adv Apt Oper (3)  |        |

| PLAN  | 512 | Intr GIS Pln (3)  |        |
| 530   |     | Hous Devel (3)    |        |
| 598   |     | Spec Develop (3-9)|        |
| 612   |     | Com Dev Stu (3)   |        |
| 620   |     | Hum Imp Any (2)   |        |
| 621   |     | Env Imp Ana (1)   |        |
| 632   |     | St Com Dv Pl (3)  |        |
| UD    | 501 | U D Dsgn 1 (2)    |        |
| 503   |     | U D Dsgn 3 (2)    |        |
| 561   |     | Comm Media 1 (2)  |        |
| 562   |     | Comm Media 2 (2)  |        |
| 569   |     | UD Cmp Graph (1)  |        |
| 598   |     | Spec Project (1-3)|        |
| 637   |     | UD Colloquia (1)  |        |
| 640   |     | History U R (3)   |        |
| 663   |     | Comp Visual (2)   | 6      |

See the Department of Urban Planning for additional information.

**COLLEGE OF ARCHITECTURE AND PLANNING (CAP)**

**500 Community-Based Projects Workshops.**
(1-3) Independent study in urban design, planning, landscape architecture, and architecture, offered in conjunction with the college’s Community-Based Projects Program. A multidisciplinary approach to problem solving in collaboration with faculty and professional consultants.

**Prerequisite:** permission of Community-Based Projects coordinator.

A total of 3 hours of credit may be earned.

**505 Context for Design and Planning.**
(2) An intensive immersion introducing principles and introductory skills necessary to the design and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and concepts, and opportunities for interdisciplinary studies.

**Prerequisite:** permission of the instructor.

**581 Introduction to Computer-Aided Design I.**
(3) Introduction to two-dimensional computer-aided design (CAD) using micro- and
large-computer CAD systems, hardware and operating system concepts, and drawing editing commands. Emphasizes environmental design and planning applications.

**Prerequisite:** permission of the dean of the College of Architecture and Planning.

**582 Introduction to Computer-Aided Design 2. (3)** A continuation of CAP 581 in a three-dimensional environment. Introduction to the drawing environment, view manipulation, projections, coordinate systems, and hidden-line and hidden-surface shading. Emphasizes environmental design and planning applications.

**Prerequisite:** CAP 581; permission of the dean of the College of Architecture and Planning.

**589 Special Projects in the College of Architecture and Planning. (1-3)** Special projects in the College of Architecture and Planning undertaken by groups under faculty direction.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

*Open only to CAP graduate students, or by permission of the associate dean.*

**651 Research Methods. (3)** Introduction to methods and techniques in the design, preparation, and execution of urban design research. Emphasis will be on procedures and techniques for the development of critical evidence-based urban design.

**Prerequisite:** graduate status and permission of the MUD program coordinator.

**URBAN DESIGN (UD)**

**501 Urban Design Studio 1: Urban Design Analysis. (2)** Focuses on the resolution of urban design analysis problems that require multifaceted understanding of urban context as the direct resolution of political, social, economic, as well as, physical forces acting in union. Students will develop analysis skills and techniques for the decoding of urban visual evidence.

**Prerequisite:** permission of the MUD program coordinator.

**502 Urban Design Studio 2: Transportation Systems. (2)** Focuses on the study of urban transportation systems. The study of multimodal interrelationships in complex urban settings including pedestrian, bicycle, rail, light rail, inter and intra urban systems and their influences on urban living and design.

**Prerequisite:** UD 501; permission of the MUD program coordinator.

**503 Urban Design Studio 3: Community-Based Design. (2)** Explores the interpretive dimensions of community, politics, and culture. Encourages critical thinking about the relationship of ethics, politics, and development. Sustainability, equity, and justice in urban design will be examined through context-rich community-based projects.

**Prerequisite:** UD 501; permission of the MUD program coordinator.

**561 Urban Design Communication and Media 1. (2)** Urban design communication theory, techniques, and media 1. The study of the design and development of effective oral, written, and graphic public design presentations. The study and application of new technologies including digital and visual media in the exploration of complex urban design projects.

**Prerequisite:** permission of the MUD program coordinator.

**562 Urban Design Communication and Media 2. (2)** Design communication theory, techniques, and media 2. Design and development of effective urban design communication strategies using new mass publishing technologies including newspapers, World Wide Web, and video.

**Prerequisite:** permission of the MUD program coordinator.

**569 Topical Computer Graphics Workshop.** (1) Various topical computer workshops designed to explore specific computer applications in urban design.

**Prerequisite:** permission of the MUD program coordinator.
598 Special Projects in Urban Design. (1-3) Directed elective projects in urban design undertaken by groups or individual students. 
Prerequisite: graduate status and permission of the MUD program coordinator.
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

601 Urban Design Studio 4: Public Open Space Design. (2) Focuses on the study of urban, shared space, such as public streets and plazas. Students will be engaged in the study and exploration of the principles of public open space. Methods of planning and designing active people spaces will be examined through site specific design problems.
Prerequisite: UD 502 or 503; permission of the MUD program coordinator.

602 Urban Design Capstone. (4) Student-defined capstone urban design project developed through an urban design question exploring specialized areas of interest and concentration. Each student project is self-generated and defined. Projects must meet graduate school creative project requirements.
Prerequisite: UD 601 or 502 or 503; permission of the MUD program coordinator.

637 Urban Design Topics and Colloquia. (1) Various urban design seminars will be offered. Each seminar will explore timely issues related to urban design practice and theory. Degree-seeking students must complete a minimum of 4 hours of urban design topics and colloquia.
Prerequisite: permission of the MUD program coordinator.
A total of 4 hours of credit may be earned, but no more than 1 in any one semester or term.

640 History of Urban Form. (3) The survey of the history of urban form exploring the design of major cities and urban centers. Students will develop an understanding of significant precedent in urban design. Layout of major urban centers will be studied through presentations, readings, and lectures. Physical form and regional influences will be systematically studied.
Prerequisite: permission of the MUD program coordinator.

663 Computer Visualization. (2) Theory and application of 3-D digital modeling in the preparation of visual representations and simulations of urban design projects. 3-D model-making, rendering, fly through, and architectural animation will be explored.
Prerequisite: permission of the MUD program coordinator.

690 Practice-Based Synthesis. (2) Directed writings reflecting on capstone project completed through UD 602. Critical evaluation of design proposals and analysis of UD 602 capstone urban design project is required. Attention to transferable and applied knowledge is required. Publication of project findings will be encouraged.
Prerequisite: UD 602; permission of the MUD program coordinator.

ARCHITECTURE

www.bsu.edu/architecture
Architecture Building 402, 765-285-1900

PROGRAMS

Master of architecture (MArch and MArch II) and master of science in historic preservation (MSHP)

MASTER OF ARCHITECTURE

Admission requirements

The professional master of architecture degree
(MArch) is for students who seek licensure in the profession. The MArch is accredited by the National Architectural Accrediting Board (NAAB).

Applicants to the MArch program must meet the admission requirements of the Ball State University Graduate School and the Department of Architecture. International students must also meet the requirements of the Rinker Center for International Programs. Applicants must hold a baccalaureate degree from an accredited program in architecture or its equivalent (Option 1). Applicants with a baccalaureate degree in a field other than architecture, if accepted, are required to complete a set of undergraduate courses in architecture, to be determined individually, prior to beginning the master of architecture courses (Option 2).

**Programs of Study**

The Department of Architecture offers two options for completing a master of architecture:

*Option 1*: this program of studies is for graduates of accredited undergraduate architecture programs or their international equivalents, and requires 46 graduate credits for completion. Students are admitted in the fall semester only.

*Option 2 (career change)*: this program of studies is for students holding a bachelor’s degree in academic fields other than architecture. The number of undergraduate prerequisite courses required for successful completion before commencing graduate courses is determined after evaluation of prior academic work.

**Degree requirements for Option 1**

All students must complete a minimum of 46 credits, consisting of a set of core seminar and architecture studio courses (25 credits); a minimum of three directed electives (9); a minimum of four free electives (12 credits); and an immersive away experience outside of the College of Architecture and Planning consisting of a) a professional internship or b) an approved academic or research experience.

**Required Courses in the MArch Option 1**

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**Directed electives**

A minimum of three credit hours must be taken from each of the following directed elective areas:

- **Area 1**: Research methods, 3 hours from
  - ARCH 503 Res Methods (3)
  - 573 HP Research (3)
  - PLAN 695 Pl Cap Rs Mt (1)
  - 696 Pl Cap Rs M2 (1)
  - 697 Pl Res Met 3 (1) 3

- **Area 2**: Integrated building practices, technical skills and knowledge, 3 hours from
  - ARCH 630 Fund Hist Pres (3)
  - 631 Life Safety (3)
  - 632 Hi Perf Bldg (3)
  - 633 Green Tech (3)
  - 634 Fab Seminar (3)
  - 635 Bldg Modling (3) 3

- **Area 3**: Critical thinking and representation, 3 hours from
  - ARCH 640 Hst Thry Crt (3)
  - 641 Cultural Fac (3)
  - 642 Arch Theory (3)
  - 643 Struct Ordin (3)
  - 644 Sust Theory (3) 3

**Free electives**

A minimum of four free elective graduate courses are required; can include 590
Degree Recap for Option 1  
Core requirements (25 credits)  
Directed electives (9 credits)  
Free electives (12 credits)  
Immersive away experience (0)  
Total required graduate credits for the MArch Option 1 = 46 hours

Degree Requirements for Option 2

Students are admitted as graduate students on a conditional basis. They must complete a number of undergraduate prerequisite courses (maximum 58 credits) listed below, the number of credit hours to be determined after evaluation of prior academic work. Upon completion, all students must complete a minimum of 46 credits, consisting of a set of core seminar and architecture studio courses (25 credits); a minimum of three directed electives (9); a minimum of four free electives (12 credits); and an immersive away experience outside of the College of Architecture and Planning consisting of a) a professional internship or b) an approved academic or research experience.

Undergraduate prerequisite courses, 58 hours maximum

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Required Courses in the MArch Option 2

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<td>Topic Studio</td>
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Directed electives  
A minimum of three credit hours must be taken from each of the following directed elective areas:

Area 1: Research methods, 3 hours from

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<td>573</td>
<td>HP Research (3)</td>
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Area 2: Integrated building practices, technical skills and knowledge, 3 hours from

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<td>631</td>
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<td>Fab Seminar (3)</td>
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Area 3: Critical thinking and representation, 3 hours from

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Free electives
A minimum of four free elective graduate courses are required; can include 590 (Independent Study) and 598 (Special Studies in Architecture) and any graduate course at Ball State University approved by the graduate program director.

Degree Recap for Option 2
Undergraduate prerequisites (58 credits maximum)
Core requirements (25 credits)
Directed electives (9 credits)
Free electives (12 credits)
Immersive away experience (0)
Total required graduate credits for the MArch
Option 2 = 46 hours

MASTER OF ARCHITECTURE II (MArch II)

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<td>Thesis or creative project</td>
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<td>Electives</td>
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The MArch II program offers students from diverse geographical, educational, and professional backgrounds a highly customizable platform from which to explore innovation with multiple applications to advanced design. This flexible curriculum offers students opportunities to engage the wide range of course offerings within the university and develop interdisciplinary, entrepreneurial, and immersive design and research projects. Research and collaboration with industry partners and a hands-on perspective are key philosophies.

The core requirement may be waived in response to the student's education and research interests, and a plan of study will be tailored to her/his specific needs. Credit transfers will be reviewed individually, and the degree may be pursued in tandem with one or more of the university’s certificate programs. The minimum degree requirement is 30 hours of graduate credit, and students are required to complete a 6-hour thesis or creative project.

MASTER OF SCIENCE (MS) IN HISTORIC PRESERVATION

This program offers students from diverse undergraduate backgrounds a solid academic foundation and the preparation necessary to undertake professional careers in historic preservation. Graduates of the program enter a wide variety of positions in both the public and private sectors. The intent of the program is to prepare professionals qualified to deal with the complex problems that arise in rejuvenating the historic cores of cities, in maintaining a sense of identity in small communities, in revitalizing neighborhoods, in restoring historic sites, and in rural preservation. Students are exposed to a variety of preservation organizations and speakers and are encouraged to participate in community and state activities.

The curriculum also offers students opportunities to take multidisciplinary courses and engage in projects involving architecture, urban planning, landscape architecture, archaeology, history, business, and other related fields.

The MS in historic preservation is a two-year degree program. The first year is devoted to courses in basic theory, concepts, and supervised field experience. An internship is served with a private or public preservation agency. In the second year, students have an opportunity to examine more technical or specialized areas of interest and to bring these experiences to bear on the required thesis or 6-hour creative project.

A three-term option—a specialization in architectural history, preservation, and restoration under the master of architecture degree—is available to students holding professional degrees in architecture from accredited institutions.

Admission requirements

Applicants must meet the admission requirements of the Graduate School. Admission to the MS in historic preservation also requires departmental permission. Because of the program’s interdisciplinary nature, most
undergraduate fields of study are considered appropriate.

Transfers of credit toward the graduate degree are reviewed individually. Up to 14 semester hours or 20 quarter hours of credit taken at the fifth-year level in architecture and planning in an accredited five-year program may be transferred if such courses meet the student’s curricular requirements. In addition, up to 14 semester hours or 20 quarter hours taken at accredited institutions may be transferred if taken for graduate credit. If students are not transferring credit at the fifth-year level, 28 semester hours or 40 quarter hours of graduate credit may be transferred. The amount of transfer credit accepted will not exceed 28 semester hours or 40 quarter hours.

MASTER OF SCIENCE IN HISTORIC PRESERVATION, 57 hours

Degree requirements

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57 hrs

The selection of electives will be made in consultation with the program director. One elective must be taken in history of architecture, landscape architecture, or urban planning.

The candidate will take an oral examination given by a committee on the completion of the thesis or creative project.

ARCHITECTURE (ARCH)

501 Comprehensive Architecture Studio. (6)
Graduate architecture studio involves work that is comprehensive in its conception, development, and execution. Meets NAAB criteria for “Comprehensive Design,” “Financial Considerations,” and “Technical Documentation.”

Prerequisite: graduate standing or permission of the program director.

502 Architectural Design 2. (6) Graduate design course involves architectural problems of increasing scale and complexity and requires solutions that are thorough in their conception, development, and execution. Multiple studio sections are offered each semester.

Prerequisite: graduate standing.

503 (652) Research Methods in Architecture. (3) Introduction to research methods applicable to architectural practice. Enables students to study and apply a variety of research methods and tools. Students formulate a range of research proposals.

Prerequisite: graduate standing or permission of the program director.

506 Historic Preservation Design Studio. (6) Selected problems and issues in historic preservation at all scales in an applied context. Opportunity to implement concepts learned in a creative environment. Field trips to project sites.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

520 (559) Professional Practice. (3) Explores the essential elements of architectural practice and related professions. Addresses administrative role of the architect, basic principles of architectural practice, leadership, information management, legal responsibilities, ethics and professional judgment in architectural practice.

Prerequisite: graduate standing or permission of the program director.

528 History of North American Architecture. (3) American architecture and urbanism from its
colonial beginnings to the present. Emphasizes European antecedents, transformation by American conditions, and the rise of distinctly American architecture. Discusses methods of disseminating architectural knowledge and conflicting points of view.

**Prerequisite:** graduate status in the College of Architecture and Planning or permission of the program director.

*Not open to* students who have credit in ARCH 428 or equivalent.

530 History of Architecture, Planning, and Engineering in the Midwest. (3) Analysis of the development of architecture, planning, engineering (canals, railroads, roads, bridges), and industrial architecture in the American Midwest from the frontier period through the twentieth century. Field trips to selected sites.

**Prerequisite:** graduate status in the College of Architecture and Planning or permission of the program director.

*Not open to* students who have credit in ARCH 430 or the equivalent.

540 Introduction to Historic Preservation. (3) Survey of history and philosophy of preservation in the United States and Europe. Emphasizes origins of current philosophies and approaches to preservation in the United States and the variety of organizations and agencies involved in preservation.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director.

*Not open to* students who have credit in ARCH 440; LA 420.

541 Historic Preservation Law and Planning. (2) Survey of fundamental legislation in the preservation field at federal, state, and local levels. Emphasizes applying knowledge of laws and regulations to actual situations in practice. Survey of types of preservation planning used by federal, state, and local governments.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director; ARCH 540.

*Not open to* students who have credit in ARCH 441.

542 Documentation and Registration of Historic Properties 1. (2) Introduction to the methods of recording and registering historic properties, including buildings, structures, districts, landscapes, objects, and archaeological sites, using both written and graphic means. Emphasizes projects and exercises involving descriptions and statements of significance for historic properties.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director.

*Not open to* students who have credit in ARCH 442.

544 Economics of Historic Preservation. (2) Developing skills in assessing the economics of preserving historic properties. Emphasizes exercises involving feasibility studies, pro formas, revolving funds, and identification of feasible users. Surveys also Main Street Program and heritage tourism and heritage areas as revitalization techniques.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director; ARCH 540.

*Not open to* students who have credit in ARCH 441.

545 Documentation and Registration of Historic Properties 2. (2) Application of skills and principles learned in ARCH 542 in a registration or documentation project.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director; ARCH 542; PLAN 605.

*Not open to* students who have credit in ARCH 442.

547 Historic Preservation Technology 1. (2) Survey of the materials and systems of construction used in historic buildings and the causes of deterioration, obsolescence, and failure in buildings. Emphasizes developing diagnostic skills through field investigations and laboratory analysis and exercises.

**Prerequisite:** graduate status in the College of Architecture and Planning; permission of the program director.

*Not open to* students who have credit in ARCH 441.
549 Historic Preservation Technology 2. (2)
Survey of the methods and philosophies of conservation and rehabilitation for historic buildings. Emphasizes identifying appropriate solutions to problems of deterioration and appropriate rehabilitation and restoration approaches. Field trips and laboratory analysis and projects.
Prerequisite: graduate status in the College of Architecture and Planning; permission of the program director; ARCH 547.
Not open to students who have credit in ARCH 449.

555 Immersive Away Experience. (0)
Immersive away experience outside of the College of Architecture and Planning consisting of a professional internship. Offered credit/no credit only.
Prerequisite: graduate standing or permission of the program director.

573 Directed Research in Historic Preservation. (3)
Methods of conducting primary and secondary research to produce academic papers, theses, creative projects, and publishable reports or articles; survey of principles of scholarly professional writing. Emphasizes exercises that develop skills in research and writing.
Prerequisite: graduate standing or permission of the program director.

581 Digital Design/Fabrication Foundations 1. (3)
Foundations course introducing surface modeling and design methods and tools for CNC fabrication. Initiates a basic understanding of surface geometry, fabrication strategies, and data extraction/translation through a series of hands-on, iterative modeling and digital fabrication exercises.
Prerequisite: graduate status in the College of Architecture and Planning.

582 Digital Design/Fabrication Foundations 2. (3)
Foundations course introducing advanced computational design and analysis tools. Topics and skills covered include time-based modeling, scripting, parametric and informational modeling, and computational performance simulation. Skills are developed through a series of case studies and projects.
Prerequisite: graduate status in the College of Architecture and Planning; ARCH 581 or permission of the instructor.

590 Independent Study. (1-3)
Approval of the independent study proposal by the faculty advisor and the department chairperson.
Prerequisite: graduate standing or permission of the program director.
A total of 8 hours of credit may be earned, but no more than 3 in any one semester or term.

593 Digital Design/Fabrication Applications Seminar. (3)
Seminar focusing on a discussion of critical consideration of digital design and fabrication technology application issues. Students will work collaboratively to develop critical and prototypical projects.
Prerequisite: graduate status in the College of Architecture and Planning; ARCH 581 or permission of the instructor.

594 Immersive Practicum Lab. (3)
Self-directed, entrepreneurial, creative projects performed under the guidance of faculty advisors and in collaboration with industry partners. Students are encouraged to consider applied research potentials for projects.
Prerequisite: graduate status in the College of Architecture and Planning; ARCH 593 or permission of the instructor.

598 Special Studies in Architecture. (3-6)
Special and timely architectural projects undertaken by groups of students.
Prerequisite: graduate standing or permission of the program director.
A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

600 Architecture Workshop. (3)
Graduate architecture workshop involves short exploratory architectural exercises or projects.
Prerequisite: graduate standing or permission of the program director.

601 Architecture Topics Studio. (6)
Graduate architecture studio involves topical architectural problems. Students are expected to increasingly
define their own interests and take initiative in defining design concepts, tasks, and opportunities.

Prerequisite: graduate standing or permission of the program director.

602 Final Architecture Project Studio. (6)
Development and completion of a student initiated and defined architectural design project.

Prerequisite: final project preparation course or permission of the program director.

603 Final Project Preparation. (1)
Provides students the opportunity to define, investigate, and articulate a topic for the final project.

Prerequisite: graduate standing or permission of the program director.

605 Design and Presentation Techniques. (1)
Introduction to graphic techniques and design processes. Lecture and studio exercises on problem solving and public presentation of findings. For historic preservation students without undergraduate training in design.

Prerequisite: graduate status in College of Architecture and Planning; permission of the program director.

630 (526) Fundamentals of Historic Preservation. (3)
Introduces the special qualities of historic properties and the importance of such properties in providing a varied and interesting architectural character to communities and rural areas. Emphasizes skills in documenting historic properties and in developing familiarity with criteria and standards for identifying such properties and rehabilitating them appropriately. The economics of historic preservation, preservation law, and Section 106 reviews are also investigated.

Prerequisite: graduate standing or permission of the program director.

631 (583) Life Safety. (3)
Survey of topics relevant to life safety, encompassing wind, fire, ground motions, environmental conditions (including noise and criminal activity), home accidents, and matters pertaining to the Occupational Safety and Health Act (OSHA).

Prerequisite: graduate standing or permission of the program director.

632 High Performance Buildings. (3)
Consideration of high-performance buildings, including aspects such as green design, carbon-neutral design, net-zero-energy design, and sustainability.

Prerequisite: graduate standing or permission of the program director.

633 Advanced Technologies for Green Building. (3)
Investigations of green technologies including solar and wind energy, energy conservation, water management, building envelope design, lighting, building-integrated photovoltaic and wind energy systems, LED lighting, smart building systems, and sensor networks.

Prerequisite: graduate standing or permission of the program director.

634 Advanced Fabrication Seminar. (3)
Critical overview of current digital fabrication methods and tools for the design and production of artifacts of various scales and types.

Prerequisite: graduate standing or permission of the program director.

635 Advanced Building Information Modeling. (3)
Critical examination of BIM technology and software. Emphasis is on analysis of the application of BIM concepts and theories to complex architectural projects, and their relationship to innovation in the area of architectural systems.

Prerequisite: graduate standing or permission of the program director.

640 (529) History, Theory, and Criticism. (3)
Examines contemporary architectural theory and criticism through the presentation and study of significant texts and buildings of the present and recent past. Introduces and investigates the formal, technological, social and cultural, political, and economic issues within the disciplines of architecture and design. Explores interactions between theory and practice, and examines strategies for the making of architecture.

Prerequisite: graduate standing or permission of the program director.
641 (552) Human and Cultural Factors. (3)
Addresses ethical, social, and cultural factors related to the design of the built environment. Includes: ethics; cultural patterns and values; privacy/community; the symbolic content of form and environment; and design across cultures. Its concern is with critical thinking, and from the standpoint of design research, it enables students to understand theoretical constructs, use conceptual argumentation, and construct strategies for a design process.

Prerequisite: graduate standing or permission of the program director.

642 (629) Architectural Theory. (3) Examines contemporary architectural theory, criticism, and practice through the presentation and study of significant texts and built form.

Prerequisite: graduate standing or permission of the program director.

643 The Structure of the Ordinary. (3)
Discusses the built environment as such, seen as a self-organizing entity under constant change. By seeing environment in different times/cultures through the lens of change, we can learn to understand the ways in which we organize ourselves as agents acting upon it.

Prerequisite: graduate standing or permission of the program director.

644 Theories of Sustainability. (3) Students explore ideas and assumptions behind green building and sustainable design. Philosophies and concepts of nature, design and technology are investigated and discussed. Students develop and share their understanding of sustainability and green building grounded in both current and established theories.

Prerequisite: graduate standing or permission of the program director.

669 Internship in Historic Preservation. (4) A 10-week period of approved employment with a national, state, or local organization engaged in professional preservation work, or participation in an approved preservation activity, typically undertaken during the summer.

674 Thesis or Creative Project Proposal. (1) Selecting a topic for the master’s thesis or creative project and preparing an acceptable proposal.

Prerequisite: ARCH 573; permission of the program director.

696 Thesis or Creative Project Preparation. (3) Conducting research and writing or preparing the thesis or creative project under the direction of the thesis committee.

Prerequisite: ARCH 573, 674; permission of the program director.

LANDSCAPE ARCHITECTURE

www.bsu.edu/landscape

Landscape architecture is an expanding profession that is rich in scope, and engaged in shaping the future of our world. Practice involves creating, conserving, and reclaiming the landscape in contexts that range from urban to pristine nature. The work of landscape architects addresses varied settings, and includes an increasingly broad range of project types: public places and communities, educational and office campuses, active recreational parks and quiet places of contemplation, transit corridors and greenways, wetlands restoration and regional conservation planning, among others. When working with those in related professions—biologists, foresters, horticultural specialists, ecological scientists, civil engineers, soil experts, architects, and planners—landscape architects integrate solutions to complex problems, through designs that are artful, functional, and sustainable.

Successful landscape architecture orchestrates relationships between the natural and built environments. The economic and social benefits of effective landscape design—creating added
value—are well documented. As environmental quality becomes a global priority there is increased public expectation of better places to live, work and play. This is reflected in the current status of landscape architecture as the fastest growing of the design professions. According to the Bureau of Labor Statistics, the profession is expected to expand by 18% to 26% by 2014.

The MLA program is open to any qualified student holding a baccalaureate degree. Ball State University’s programs in landscape architecture are fully accredited by the national Landscape Architecture Accreditation Board (LAAB).

### MASTER OF LANDSCAPE ARCHITECTURE (MLA)

#### Admission requirements

Applicants must meet the admission requirements of both the Graduate School and the Department of Landscape Architecture.

#### Degree requirements

*Program 1: 39 hours, (graduate)*

- Students with degrees in landscape architecture from a Landscape Architecture Accreditation Board-accredited program are required to enroll in the following minimum program of study:

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At least one elective must be a studio course. Candidates will complete a minimum of 39 hours of graduate work.

*Program 2: 46 hours (graduate), 19 hours (undergraduate)*

The following is the required program of study for candidates holding professional degrees in related environmental design and planning areas (i.e., architecture, interior design, urban and regional planning, etc.). Foundation courses at the undergraduate level are required for all candidates in this program except where prior equal course work is documented. This degree program is known as a first professional degree program in landscape architecture.

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Foundation undergraduate courses

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*Program 3: 57 hours (graduate), 22 hours (undergraduate)*

The following is the required program of study for candidates not holding professional degrees in landscape architecture or related
environmental design and planning areas. Foundation courses at the undergraduate level are required for all candidates in this program except where prior equal course work is documented. This degree program is known as a first professional degree program in landscape architecture.

LA 500 L A Context 1
573 Envirn Sys 3
601 L A Des Prin 4
602 Site Design 4
603 Com/Urb Des 4
604 Plan and Des 4
605 Land Plan 1 4
622 L A Hist 3
635 Methods 3
645 Plant Des 3
651 Res Meth 3
653 Readings 3
661 Des Com 3
668 Intern (0) 0
or
669 Pd Intern (0) 0

Electives 9
THES 698 Thesis (1-6)
or
CRPRJ 698 Creat Proj (3 or 6) 6

—- 57 hrs

Foundation undergraduate courses
LA 280 L A Comp App 3
311 L A Engineer 1 4
312 L A Engineer 2 4
341 Plants 1 4
413 L A Engineer 3 4
460 Pro Practice 3

—- 22 hrs

Other courses may substitute for LA 280 with departmental approval.

All MLA candidates are also required to make a public presentation upon completion of a thesis or creative project.

LANDSCAPE ARCHITECTURE (LA)

500 Context for Landscape Architecture. (1)
An intensive immersion introducing principles and introductory skills necessary to the design

and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and concepts, and opportunities for interdisciplinary studies.

Prerequisite: permission of the department chairperson.

520 Regional Landscape Architectural History. (3) Major representative samplings of cultural developments and forces affecting evolution and transformation of the structure, pattern, image, and function of the midwestern landscape.

525 Historic Landscape Preservation. (3)
Theory, concepts, methods, and case studies in historic design and cultural landscape preservation.

530 Philosophy of Landscape Architecture. (3) Seminars and independent study of the background and development of prevailing philosophies of landscape architecture.

Not open to students who have credit in LA 430.

531 Rural Landscape. (3 Lectures, seminars, and field study focusing on the rural landscape of Indiana and the Midwest. Issues of policy and management of resources, land-use practices, and various other conditions, both natural and human-made, as they relate to landscape architecture.

538 Park and Recreation Planning and Design. (3) Interdisciplinary relationships in comprehensive and site-specific community recreation and park planning and design. A joint offering with the Indiana University Department of Recreation and Park Administration, presented over the Indiana Higher Education Telecommunications System.

573 Environmental Systems and Structures. (3) Qualitative investigations and analyses of and research in landscape systems. Studies include assessments of vegetation, climate, hydrology, soils, and surface geology as determinants of landscape architectural form;
natural processes as they relate to the principles of landscape architectural construction.

590 Independent Projects. (1-9) Independent study in environmental topics relevant to landscape architecture.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

598 Special Projects in Landscape Architecture. (1-9) Special and timely landscape architectural projects undertaken by groups of students.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

601 Principles of Landscape Architectural Design. (4) Design projects, exercises, lectures, and field studies to develop awareness of principles and concepts integrating natural and cultural elements in the landscape.

602 Site Design. (4) Continued applications of basic design principles, programming, and site analysis reinforcing design processes and visual thinking in the design of sites. Emphasizes open space planning and park design. May include projects in natural, rural, and urban settings. Computer applications as appropriate.

Prerequisite: LA 601 or departmental permission.

603 Community and Urban Space Design. (4) Continued application of principles of landscape architecture to community- and neighborhood-scale projects of increasing complexity, including housing, commercial and urban land planning, and development issues. Additional issues addressed include human behavioral principles and planting design concepts as they relate to landscape architectural spaces. Computer graphic and CAD techniques as appropriate.

Prerequisite: LA 602 or departmental permission.

604 Landscape Architecture Planning and Design. (4) Staged projects progressing through regional land planning and site design scales.

Includes landscape planning (manual or GIS), overlay assessments, historic and cultural landscape conservation planning and design, and site design applications.

Prerequisite: LA 603, 635, or departmental permission.

605 Comprehensive Landscape Planning and Design. (4) Faculty-directed landscape architectural planning and design problems and projects. Student-initiated components in concentration area leading to thesis/creative project development. Weekly peer reviews and interim public presentation will be required in the course of development of the thesis or creative project.

Prerequisite: advisor selected for the thesis or creative project and proposal developed; LA 651, 653, and 604 or departmental permission.

606 Comprehensive Site Design 1. (4) Comprehensive site-scale design from the concept stage through detail documentation.

Prerequisite: LA 603 or permission of the instructor.

622 Landscape Architectural History. (3) Lecture and discussion on contributions of various cultures and eras to the landscape and their relationship to current issues in landscape design and theory.

631 Topical Seminars. (1) Issues, case studies, guest professionals, and student presentations relevant to broadening understanding of the diverse profession of landscape architecture.

635 Landscape Architecture Methods. (3) Theories and methods related to landscape planning, historic landscape preservation and conservation, and site designs.

645 Planting Design. (3) Use of plants as landscape-design elements; related specifications and detailing. Introduction to cost estimating.

Prerequisite: LA 341 or permission of the instructor.

651 Research Methods in Landscape Architecture. (3) Introduction to critical issues,
methods, procedures, and techniques for comprehending, evaluating, and undertaking research, with an emphasis on proposal development.

Parallel: LA 653.

653 Readings in Landscape Architecture. (3) Directed and selected readings and written reports to broaden perspective in landscape architecture. Preliminary investigation for the literature review of the thesis/creative project.

661 Design Communications. (3) Theory and application in design communication, including free-hand and technical drawing and presentation skills. Includes demonstration of computer-automated drafting (CAD) and computer graphic simulation technologies.

668 Landscape Architecture Internship. (0) Minimum of one semester of supervised, unpaid employment under the direction of a landscape architect or allied-design professional. Departmental approval required in advance of qualified employment. Required employer and self-evaluation reports. Offered credit/no credit only.

Not open to students who have credit in LA 669.

669 Landscape Architecture Internship. (0) Minimum of one semester of supervised, paid employment under the direction of a landscape architect or allied-design professional. Departmental approval required before qualified employment. Requires employer and self-evaluation reports. Offered credit/no credit only.

Not open to students who have credit in LA 668.

690 Independent Projects. (1-3) Independent study in environmental topics relevant to landscape architecture.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

698 Special Projects in Landscape Architecture. (1-3) Special and timely landscape architecture projects undertaken by students in groups.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

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URBAN PLANNING

www.bsu.edu/urban
Architecture Building 327, 765-285-1963

MASTER OF URBAN AND REGIONAL PLANNING

The professional field of planning and the programs of the department present significant and diverse opportunities to solve the problems of communities and shape the built environment. Our profession is uniquely dedicated to the quality of life impacted by place, to visions and policy consequences that extend beyond the short term, and to problem solving that relies on multiple disciplines. Our professional values commit us to environmental sustainability, social equity, participatory democracy, and deliberate design.

Planners promote public interest development through the implementation of plans formulated and adopted in the public interest. They perform this function in all three economic sectors—public, private for-profit, and private nonprofit. Professional career areas of opportunity include public planning and housing/community development agencies, land development and professional service firms, and nonprofit corporations serving neighborhoods and various public interests.
We prepare students for these challenges by offering a rigorous course of study for the master of urban and regional planning (MURP), a professionally recognized degree leading to professional certification by the American Institute of Certified Planners (AICP).

Admission requirements

Applicants must meet the admission requirements of the Graduate School and be approved by the Department of Urban Planning. International students must also meet the financial, English language, U.S. Immigration (visa), and transcript certification requirements of the Rinker Center for International Programs.

Degree requirements

Tracks

The standard MURP track is a two-year, 48-credit hour program. The accelerated track program, available only to graduates of an urban planning baccalaureate program accredited by the Planning Accreditation Board (PAB), may be completed within one calendar year (a full academic year plus dual summer session) and requires 36 credit hours.

Examination

To assist in self-assessment and faculty advising newly admitted students must complete a diagnostic examination that evaluates their planning interests, perceptions, knowledge, and skills. Before graduation students must also complete a comprehensive examination that addresses the synthesis of knowledge of greatest significance in the student’s professional education. This exam assesses not only student competency and program effectiveness, but also student progress since the diagnostic exam.

Course of Study in Selected Area of Concentration

For the standard and accelerated tracks, 12 hours are required in the student’s selected area of concentrated study (ACS) in (1) comprehensive planning, (2) physical planning, (3) community development and enterprise planning, or (4) customized urban planning area; the latter requires faculty approval. This is comprised of an ACS core course, ACS studio, and two elective courses particular to the selected ACS; depending on ACS, there are certain requirements for electives.

Capstone Project

The degree requires a capstone project of 3 hours, typically in the student’s ACS, to demonstrate advanced competency in the use of knowledge or to create knowledge. The project may center on a field-based project that produces a professional report or on a topic of scholarship that produces a research paper (refer to RES 697). With faculty approval a student may engage in a creative project that produces a thesis for 6 credits (refer to THES 698). The program’s curriculum prepares students for the capstone project.

Remaining Electives

The remaining electives constitute 9 hours for the standard track and 6 hours for the accelerated track. Students select electives based on their ACS from courses offered within urban planning or from courses in other disciplines of the Graduate School, as approved by urban planning; a pre-approved list is available through the department or consult with the graduate faculty advisor for approval. Also, the required capstone project constitutes 3 hours by students enrolling in RES 697, or if THES 698 is approved for 6 hours, the additional 3 credits may substitute as an elective.

Credits Transferred from Prior Graduate Study

Up to 15 credits for the standard and 9 credits for the accelerated track earned in prior graduate study outside the department and not resulting in a degree, may be applied toward the MURP. Such transfer credits must have been earned at an accredited institution, demonstrate relevancy for an equivalent course of study of the MURP program, and be approved by the department.
Degree requirements

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3-6 hours from
RES 697 Research Ppr (1-3)
or
THES 698 Thesis (1-6) 3-6

12 hours from
Area of Concentrated Study (ACS) 12

Outside electives 6

URBAN PLANNING (PLAN)

500 Planning Diagnostic Exam. (0) The diagnostic exam, administered to incoming students, evaluates professional objectives, perception of the planning profession, and knowledge of several key topical areas with the intention of both the student and student’s faculty advisor using the results when selecting a course of study. Offered credit/no credit only.

501 Introduction to Urban Planning. (3) Introduces the principles, practices, and theory of contemporary urban planning. The community planning process and the substantive areas of planning practice are discussed. Students will be provided with the skills needed for the preparation and implementation of a community’s comprehensive plan.

504 Urban Design. (3) An exploration of the physical form of the public realm and how it has been shaped by social, economic, political, and cultural forces. Special attention will be paid to issues of identity, sense of place, placemaking, and sense of belonging.

506 Environmental Design Studio. (3) An interdisciplinary approach to the resolution of problems in environmental design. Appropriate projects to be determined in consultation between the students and faculty.

507 Computer Techniques for Design and Planning. (3) Introduces a variety of software and applications techniques in remote sensing,
mapping, perspective drawing, and database graphics for architecture, landscape architecture, and planning.

512 Introduction to Geographic Information Systems for Urban Planning. (3) Designed to introduce principles of GIS and GIS applications in an urban environment. Topics include GIS components, modeling methodology, and management of environments. Implications to urban and environmental policy development.

Prerequisite: PLAN 512.

521 Urban Land-Use Planning. (3) Planning the uses of land in urban areas. Land-use determinants, standards at the community level, information systems, preparation of land-use plans, and development of land-use control policies at the urban and county levels.

530 Housing and Community Development. (3) Public programs and private activities relating to the provision of affordable housing for all income levels. Topics include housing supply and demand, housing finance, the role of government subsidies, and coordinated policy for community development.

531 Urban Transportation Planning. (3) Transportation planning methods and policy, including analysis of travel demand, links between land use and transportation, choice of transportation modes, and design of balanced transportation systems.

533 Urban Environmental Planning. (3) Introduction to urban planning considerations for control and reduction of air, water, and land degradation, including waste management, noise pollution, and other side effects of urban development.

534 Regional Development Planning. (3) Seminar in techniques of regional planning analysis and policy formulation. Methods of integration of economic, ecological, and social objectives in regional development.

535 Energy Planning. (3) Energy resource issues in urban planning. Strategies for incorporating energy efficiency into housing, land use, transportation, social services, and community development. Analysis of energy policy, with emphasis on innovative public and private sector initiatives at the community level.

538 Regional Land-Use Planning. (3) Planning the uses of land at the regional, area, and state levels; interface between social, environmental, and land-use plans at the regional level; and land-use policies for critical-area management including the coastal zone.

539 Public Facilities Planning. (3) An introduction to the planning of public facilities systems including street and highway systems, water systems, waste-water, and solid waste management.

540 Building Performance. (3) A scientific approach to understanding how energy and moisture move in buildings and how buildings fail with respect to health and safety, durability, comfort, and affordability. While the focus is on housing, the fundamentals are applicable to all buildings.

541 Sustainable Housing. (3) Methods for bringing sustainable design and construction practices into the housing industry, with an emphasis on increasing durability, comfort, and energy efficiency while reducing costs. Use of computer software for economic analysis of design improvements, ensuring code compliance, and determining HERS and Energy Star ratings.
Prerequisite recommended: PLAN 540.

550 Neighborhood Planning. (3) Planning strategies for the revitalization of older residential neighborhoods and neighborhood commercial areas. Includes community
organization and the role of public and private neighborhood organizations.

**553 Planning Practice Workshop.** (3) An eclectic practice course intended to sharpen the planning student’s skills in report preparation, oral and visual presentation of complex issues, preparation of grant applications, and agency budgeting procedures.

**554 Community Development Policy Planning.** (3) Strategies of community development to achieve policy goals and objectives. Emphasizes interorganizational coordination of public and private interests in revitalizing urban communities.

**555 Women and Urban Environments.** (3) Examines the linkages between women and urban environments by focusing on the role played by the urban environment in facilitating or hindering women’s access to economic, social, and political opportunities. Domestic and international examples are used to illustrate concepts.

**558 Introduction to Multiculturalism as a Planning Context.** (3) Anthropological analysis of culturalism for planning within a cross- and multi-cultural context. Subordination/exclusions based on age, gender, sexual preference, bureaucratic/ economic status, religion, and race are historically reviewed through socio-cultural forces: fear of the other, immigration, unresolved post-colonialism, resurgence of indigenous peoples/displaced cultures, and emergence of modern metropolitan society.

**559 International Planning.** (3) An exploration of the nature of the urban and regional planning process in other countries. Topics include development policies, planning strategies, institutional structures, implementation strategies, and accomplishments. Attention also will be paid to the usefulness of these experiences to American cities.

**560 Alternative and Sustainable Community Planning.** (3) Seminar examining nontraditional approaches to community planning and design. Focuses on concepts associated with the design of sustainable communities. Historical precedent, case study, and utopian alternatives are synthesized to project alternative futures for present community planning and design issues.

**577 History of Urban Form.** (3) An examination of the historical transformation of the urban form and its elements. Focuses on the physical organization of the city in relation to social, economic, political, and cultural forces that have shaped it. Special attention will also be paid to non-Western urban forms and histories.


**581 Public Participation: Issues, Methods, and Techniques for Knowing the Public Interest.** (3) Issues and qualitative methods/techniques useful to the planner’s paramount responsibility: understanding/integrating local knowledge and values into the public decision-making process. Issues and theories of public participation. Methods and skill techniques of being informed by the public, of informing the public, and of advancing planner/constituency collaboration.

**582 Grant Procurement and Administration for Planners.** (1-3) Techniques of proposal writing, including RFP and RFQ responses, and grant procurement, including intergovernmental, foundation and corporate giving, contract negotiation and administration, and lobbying strategies.

A total of 3 hours of credit may be earned.

**583 Site Analysis and Planning.** (3) Range of practical approaches in evaluating and planning sites within the contexts of natural, economic, and cultural systems. Site inventory, analysis, and planning. Introduction of computerized platforms, integrating digital and physical representations to enhance planning and communication with the public. Required core
course in the physical planning area of concentrated study (ACS).

584 Visual Modeling. (3) Graphic design representation and presentation techniques. Introduction to “data mining” and computer-based applications in remote sensing, mapping, perspective drawing, and database graphics. Visual urban simulation using advanced digital applications, such as GIS. Introduction to terrain engines, VRML, and other rendering environments for the display of urban planning alternatives.

585 Introduction to Community Development and Enterprise Planning. (3) Historical/comparative review of the real estate/community development practices, and emergence of enterprise planning. Development process attendant to each of the three economic sectors and to contrasting venues of economically/politically impacted areas ranging from inner cities to rural towns seeking revival. Methods of formulating action plans.

586 Methods of Public Interest Development. (3) From an enterprise planning perspective, the rationale and methods of development. Finance: proforma, break-even cash flow, equity investment, lender underwriting, and gap financing analyses; public-private partnerships incorporating range of development inducements. Strategies for creating markets given disinvestment pattern. Managing community development organization and projects through development process.

590 Independent Study in Planning. (1-9) Relevant research or a project under the direction of the planning faculty.

Prerequisite: approval of a written project or research proposal.

A total of 9 hours of credit may be earned.

598 Special Projects in Urban and Regional Planning. (3-9) Special projects in urban and regional planning undertaken by groups of students under faculty direction.

A total of 9 hours of credit may be earned.


604 Advanced Planning Issues, Theory, and Practice. (3) Advanced seminar to explore the application of planning theory to planning practice and management. Issues of planning ethics, roles, styles, and strategies, including citizen participation, for effective plan making and implementation. Accelerated track.

605 Design and Presentation Techniques. (1-3) Introduction to graphic techniques and design processes. Lecture and studio exercises on problem solving and public presentation of findings. For planning and preservation students without undergraduate training in design.

A total of 3 hours of credit may be earned.

610 Planning Analysis Studio. (3) Analysis and design principles at regional, urban, and local scale, including environmental suitability, land-use location criteria, and site-planning criteria for Greenfield or redevelopment sites. Students defend proposals based on analytical and design criteria.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

611 Comprehensive Planning Studio. (3) Application of substantive skills in a comprehensive planning exercise for an urban area, involving field work and a real location. Emphasizes the process by which comprehensive planning decisions are reached.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

612 Community Development Studio. (3) Community development scale planning, such as neighborhood revitalization, housing, or industrial renewal, with a real-world setting and sometimes a real-world client.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
615 Introduction to Quantitative Analysis. (1)
Developing the analysis and problem-solving skills useful for practicing planners; the use of spreadsheets for problem-solving, data analysis, and presentation graphics; policy evaluation techniques of benefit/cost and cost/effectiveness analysis as the basis for understanding analytic planning thought.

Parallel: PLAN 616, 617.

616 Demographic/Socio-Economic Forecasting Methods. (1) Demographic, economic, and socio-economic projection techniques; use of cohort survival, regression, and other techniques in the analysis of trends for the purpose of forecasting the components and location of population, housing, jobs, income, consumption, investment, etc.

Parallel: PLAN 615, 617.

617 Introduction to Planning Research Methods. (1) Descriptive and introductory inferential statistical techniques, as per measures of central tendency and dispersion; calculation of need gaps; data tabulation and graphic presentation; sampling and survey research methods; hypothesis testing through analysis of variance, chi-square, and other significance testing of sampling data.

Parallel: PLAN 615, 616.

618 Advanced Planning Research Methods. (2) Advanced inferential statistics; correlation and regression analysis progressing from linear and bivariate to quadratic and multivariate models; introductory Boolean algebra. Data reduction techniques of factor analysis and Q-methodology. Classification techniques of cluster analysis.

Prerequisite: PLAN 615, 617 or competency by examination.

Parallel: PLAN 619.

619 Quantitative Models of Location Theory and Spatial Analysis. (1) Quantitative modeling of urban spatial analysis (analysis and forecasting of uses and forms); land use and transportation forecasting; public facility, basic sector, residential distribution and retail/local service sector modeling; and trip generation and distribution modeling.

Parallel: PLAN 618.


Parallel: PLAN 621.

621 Environmental Impact Analysis. (1) Techniques for assessing environmental impacts, including environmental inventory, rapid assessment, environmental impact analysis, land suitability analysis, risk assessment, build-out analysis, modeling for environmental sustainability, and the review of environmental regulations at all levels of government.

Parallel: PLAN 620.

625 Planning Law. (3) Historical/jurisprudential analysis of planning/land-use law within public agencies and the private sector of development. Zoning, subdivision, and other land use regulations. A study of the legislative, regulatory, and administrative law adjudicatory process within the context of planning and land use as well as comparisons of selective states and localities’ processes.

626 Human Settlements. (1) Analytical and comparative history of urban form by way of its human, economic, and cultural influences. Elementary and essential principles of urban design.

628 Economics of Planning. (1) Neoclassical microeconomics applicable to analysis/evaluation of private/public development and urban form. Theories of marginal analysis, present value, and applied optimization explain urban/environmental/international economics; public choice; location theory; and development economics. Macroeconomic general equilibrium paradigm explains suboptimal resource allocations, or market failures, leading to variety of market interventions.

629 Planning Analysis Studio. (3) Analysis and design principles at regional, urban, and local scale, including environmental suitability, land-use locational criteria, and site planning criteria for greenfield or redevelopment sites. Students defend proposals based on analytical and design techniques. Six contact hours.

630 Comprehensive Planning Studio. (3) Application of substantive skills and knowledge in a comprehensive planning exercise for an urban area, involving fieldwork and a real location. Emphasizes the process by which comprehensive planning decisions are reached. Six contact hours.  
Prerequisite: PLAN 521.

631 Studio in Physical Planning. (3) Application of substantive skills and knowledge in physical planning through the creation of a site plan utilizing fieldwork and a real location. Emphasizes the processes of site planning and analysis. Six contact hours.  
Prerequisite: PLAN 583.

632 Studio in Community Development and Enterprise Planning. (3) Application of substantive skills and knowledge in an enterprise planning exercise for an urban area, involving fieldwork and a real location. Emphasizes the processes of action plans, land development/development, and community development. Six contact hours.  
Prerequisite: PLAN 585 or 586.

636 Theory of Urban Spatial Planning. (3) Seminar in theories of location and development of principal urban activities including transportation, housing, industry, commercial centers, and public facilities. Implications for urban planning policies.

661 Planning Issues, Theory, and Practice. (3) Capstone seminar to explore application of theory to planning practice and management. Issues of planning ethics, citizen participation, styles of planning, and strategies for effective implementation of planning.  
Prerequisite: PLAN 691 or permission of the department chairperson.

690 Planning Portfolio Review. (0) During the second semester of study and upon selection of ACS each student assembles a professional resume, examples of work, strategic plans for both career and internship, and an outline of a capstone project for review before a panel of faculty and for the purpose of self-assessment and faculty critique and guidance.

691 Planning Paid Internship. (0) Paid professional work experience of at least 200 hours in approved planning or development organization; employer supervision/evaluation. Four seminars and coordinated with the faculty review of student portfolios. For accelerated-track students completing all other degree requirements during one year; a paper substitutes for the second-year fall semester seminar.  
Prerequisite: PLAN 690 and completion of half the required credit hours (24 for standard track; 18 for accelerated-track) or permission of the department chairperson.

693 Customized Area of Study in Urban Planning. (1-9) Student-customized area of concentrated study (ACS) under the approval and supervision of the faculty. The area may include independent study (PLAN 590 Independent Study in Planning), several courses within the department, and the completion of courses of study in disciplines other than urban planning. (Includes study courses in one of the program’s three areas of concentrated study, completing the required 12 credit hours of study in the selected, customized ACS.)
695 Planning Capstone Research Methods.
(1) Problem identification; selection of topical area of interest; formulation of specific research/professional report topic and outline; and development of an annotated syllabus.

696 Planning Capstone Research Methods 2.
(1) Selection and application of research methods to topic; collection and preliminary analysis of data.

Prerequisite: PLAN 695.

697 Planning Capstone Research Methods 3.
(1) Rigorous analysis of data and formulation of the paper/report, demonstrating topic definition, research methods, preliminary conclusions, and implications of the same.

Prerequisite: PLAN 696.

699 Planning Comprehensive Examination.
(0) Passing grade required for graduation. The exit examination evaluates three areas: (1) student competencies across a knowledge range most significant to, and integrative of, planning; (2) student progress consequent to the MURP course of study and relative to PLAN 500; and (3) the learning effectiveness of the MURP program. Offered credit/no credit only.

Prerequisite: all other degree requirements.
MASTER OF BUSINESS ADMINISTRATION

The master of business administration (MBA) degree is designed for the student who seeks an applied and integrated program with flexibility in choice of electives. The MBA is available on campus and by Distance Education. Off-campus students participate synchronously in live, interactive classes originating from the Ball State campus by joining other students at a site or by Internet delivery to their home or office.

Accreditation

The college and the undergraduate accounting program are accredited by the AACSB International. All hours transferred to complete the degree must have been taken at AACSB-accredited schools.

The Miller College of Business does not award credit in business courses on the basis of self-acquired competency. The college will not accept the transfer of credit for business courses from other institutions if the credit was awarded on the basis of self-acquired competency.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and must also be admitted to the Miller College of Business. The Miller College of Business Graduate Admissions Committee will consider applicants’ previous academic records, scores on the Graduate Management Admission Test (GMAT), potential leadership qualities, and any other information deemed relevant by the committee.

International Students

In addition to the GMAT, applicants whose native language is not English and who have not received degrees from institutions within the United States are also required to take the Test of English as a Foreign Language (TOEFL).

Prerequisite Requirements

Although no specific undergraduate major is required for admission, the quantitative nature of the MBA program requires that the student possess a strong background in mathematics and statistics. The student must also possess proficiency in microcomputer applications (spreadsheet, word processing, database, and presentation software), and possess familiarity with the Internet. These competencies will be the responsibility of the student to acquire and will be assumed.

Foundation Courses

The student must possess competence in the foundation fields of accounting, economics, management, operations management, marketing, and finance. The competency can be demonstrated through undergraduate-equivalent courses or by completing the following foundation courses: ACC 501, ECON 509, FIN 500, MGT 500, ISOM 551, and MKG 505.

Foundation courses may be completed after students are admitted into the program or by taking them via the Business Essentials Certificate before admission to the MBA.

In general, foundation courses must be completed before work in the 30-hour MBA program begins. The Graduate Programs Office in the Miller College of Business will examine each student's undergraduate course work to determine eligibility for exemption from
foundation courses. A student with an undergraduate major in business will usually have sufficient background to begin the MBA program.

**Degree requirements**

For a general MBA or a concentration in entrepreneurship, the program requires a total of 30 semester hours including 6 hours of electives. For an MBA with a concentration in finance, information systems, production operations management, or sales management, the program requires a total of 33 semester hours including 9 hours of electives. Courses required to earn the information systems concentration are offered on campus and online in an asynchronous format, but not through synchronous distance education.

Students must maintain a 3.0 GPA in all foundation courses and within the 30 semester-hour program. Also, a grade of C (2.0) or above is required in each course in order to graduate.

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**Minor in General Foundations of Business**

**Admission requirements**

The minor is not open to Miller College of Business graduate majors. Students with undergraduate equivalent courses may need course substitutions or may not be eligible for the minor. Students must be admitted to the minor by filing a program of study in the Miller College of Business. A Miller College of Business graduate advisor will examine each student’s undergraduate course work to determine eligibility for the minor. Contact the Graduate Programs Office in the Miller College of Business for details.

**Degree requirements**

After a program of study is filed with the director of Graduate Business Programs, the candidate must complete at least 12 hours from the following courses.

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Students must maintain a 3.0 GPA in the general foundations of business minor. Also, a grade of C (2.0) or better is required for a course to apply to the minor.

**Doctoral Cognate in General Foundations of Business**

The Miller College of Business offers a single cognate of 15 hours that will satisfy only one of the two required cognates for the doctoral programs. Of these 15 hours, 9 must be taken at Ball State. The Miller College of Business does not offer the large cognate of 24 hours that satisfies all cognate requirements.

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CERTIFICATE IN BUSINESS ESSENTIALS

Admission requirements

Applicants must meet the admission requirements of the Graduate School and the certificate requirements of the Miller College of Business.

The certificate is available on campus and via Distance Education.

 PREFIX NO SHORT TITLE CR HRS
12 hours from
ACC  501 Fin Acct (3)
ECON 509 Survey Econ (3)
FIN  500 Corporation (3)
ISOM 551 Op Mgt (3)
MGT  500 Mng Org Beh (3)
MKG  505 Survey Mrktg (3) 12

Optional
MBA 699 Internship (1-3) 0-3

———
12-15 hrs

CERTIFICATE IN COMMUNITY AND ECONOMIC DEVELOPMENT

 PREFIX NO SHORT TITLE CR HRS
ECON 545 Gov Budgets  3
612 St/Loc Ec Dev  3
MGT  697 Indpen Study (1-6) 3

Electives, 3 hours from
ECON 585 Urban Econ (3)
MGT  500 Mng Org Beh (3)
MKG  655 Bus Res (3) 3

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12 hrs

MASTER OF BUSINESS ADMINISTRATION (MBA)

600 Global Business Experience. (3) Examines a strategic business problem for an organization with international offices/operations. Students will study relevant international business practices and culture, current practices related to the business problem presented, and theoretical underpinnings of those practices. Students will work in teams to create solutions for the client and may present findings during on-site international meetings.

Prerequisite: full admission to a graduate program in the Miller College of Business.

Open only to Miller College of Business students or by permission of the Executive Director of graduate programs.

601 Entrepreneurial Leadership and Ethical Reasoning. (3) Assessment of each student's personal ethics, decision making, motivation, communication, team building, and leadership characteristics followed by creation of a personal development plan. Emphasis on application of current leadership theories to leading innovation and managing operations within an entrepreneurial organization. Ethical reasoning is taught in three modules: 1) critical thinking for ethical decision making; 2) ethical theories and frameworks; 3) corporate social responsibility.

Prerequisite: full admission to a graduate program in the Miller College of Business; MGT 500; ISOM 551; or their equivalents.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

611 Statistics and Quantitative Methods. (3) Use of statistics and quantitative methods for making business and operations management decisions. Applications of probability, hypothesis testing, analysis of variance, correlation, advanced topics in regression analysis, time series analysis and forecasting, linear programming, and simulation.

Prerequisite: ECON 221 or equivalent; ISOM 551; full admission to a graduate program in the Miller College of Business.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

621 Information Systems. (3) Enterprise information systems developments and implementation strategies, managerial issues associated with operations of the enterprise, the organizational impact of information systems and projects, and associated human resource issues. Cases and applications of ERP software.
Prerequisite: ISOM 551 or equivalent; full admission to a graduate program of the Miller College of Business.

623 Electronic Commerce. (3) Focuses on the unique issues facing businesses involved in electronic commerce. Specific topics include e-business models, e-commerce technology, electronic marketing, electronic funds transfer, and e-commerce security and controls.
Prerequisite: MBA 621 or permission; full admission to a graduate program of the Miller College of Business.

624 Integrative Enterprise Resource Planning. (3) Applications of enterprise resource planning systems in several business areas such as accounting systems, customer relationship management, operations and materials management. Utilizes a well-known ERP software system to familiarize students with these applications.
Prerequisite: MBA 621 or permission; full admission to a graduate program of the university.

625 Enterprise Resource Planning Systems. (3) Focuses on business ERP systems. Topics include ERP framework and architecture, leading enterprise systems and market trends, evaluation of ERP Systems, and implementation methodologies and success factors. Students are exposed to the SAP system. Hands-on applications and labs are included to provide practical experience for implementing SAP solutions.
Prerequisite: MBA 621 or permission; full admission to a graduate program of the university.

631 Accounting and Decision Making. (3) Study of the concepts and techniques of preparation and use of accounting data by management for planning, control, and decision-making purposes. Production and operations management-related topics will be explored, as well as implications of a global business setting.
Prerequisite: ACC 501 or the equivalent; ISOM 551 or the equivalent; full admission to a graduate program in the Miller College of Business.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

651 Economic Analysis for Managers. (3) Apply economic principles to improve the decisions made by managers. Topics include supply and demand, marginal analysis, the impact of market structure (i.e., competitive, monopoly, and oligopoly), and the organization of the firm.
Prerequisite: ECON 509; full admission to a graduate program in the Miller College of Business.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

661 Managerial Finance. (3) Provides an in-depth discussion of perspectives and practices of financial management. Focuses on the application of analytical techniques to the firm’s short-term and long-term investment and financing decisions in a global context.
Prerequisite: FIN 500 or the equivalent; full admission to a graduate program in the Miller College of Business.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

671 Marketing Management. (3) The analysis, planning, implementation, and control of marketing programs by profit and nonprofit organizations as viewed by marketing managers. Topics include the study of pricing policies, promotion, product strategy and liability, market research, supply chain management, international issues, and consumer law.
Prerequisite: full admission to a graduate program in the Miller College of Business; MKG 505 or equivalent.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

691 Global Strategic Management. (3)
Integrative application of business knowledge to managerial decisions and action that determine the long-run performance of organizations. Deals with legal and environmental issues and strategy formulation, and implementation in a global setting.

Prerequisite: completion of 15 hours of MBA core courses; full admission to a graduate program in the Miller College of Business.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

697 MBA Independent Study. (1-3)
Supervised study of some phase of business administration in depth. The topic selected, methods of study, and credit hours allowed must be approved by the MBA advisor and the supervising faculty member.

Prerequisite: permission of the MBA advisor and full admission to a graduate program of the university.

A total of 3 hours of credit may be earned.

699 Internship in Business. (1-3) Professional practice as an intern in an approved program with a business firm, government agency, or nonprofit organization under the supervision of the Miller College of Business. Requires periodic written progress reports that will be evaluated by the assigned faculty member and the intern's supervisor.

Prerequisite: good standing with the university; permission of the director.

A total of 3 hours of credit may be earned.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

ACCOUNTING

www.bsu.edu/cob/accounting
Whitinger Business Building 303, 765-285-5100

MASTER OF SCIENCE IN ACCOUNTING

The master of science in accounting is designed for the accounting student who seeks to meet the statutory requirements to sit for the Certified Public Accountant (CPA) examination and for the accounting student who wants added depth and breadth in professional preparation.

Accreditation

The college and the undergraduate accounting program are accredited by AACSB International. All hours transferred to complete the degree must have been taken at AACSB-accredited schools.

The Miller College of Business does not award credit in business courses on the basis of self-acquired competency. The college will not accept the transfer for business courses from other institutions if the credit was awarded on the basis of self-acquired competency.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and must also be admitted by the Department of Accounting Admissions Committee. The committee will consider applicants’ previous academic records, scores on the Graduate Management Admission Test (GMAT), potential leadership qualities, and any other information deemed relevant by the committee. The committee’s decision is always final.
International Students

In addition to the GMAT, applicants whose native language is not English and who have not received degrees from institutions within the United States are also required to take the Test of English as a Foreign Language (TOEFL).

Foundations Courses

The student must possess competency in the foundation fields of accounting, economics, business law, management, operations management, marketing, and finance. The competency can be demonstrated through undergraduate equivalent courses or by completing the following foundation courses: ACC 501, BL 560, ECON 509, FIN 500, MGT 500, and MKG 505.

As a rule, all foundation courses must be completed before course work in the accounting program begins. The Department of Accounting will examine each student’s foundation course work to determine eligibility for exemption from foundation courses. A student with an undergraduate major in business with a major or concentration in accounting will usually have sufficient background to begin the program.

Degree requirements

The program requires a total of 18 hours of accounting courses and 12 hours of electives approved by the chairperson of the Department of Accounting. Students must maintain a 3.0 GPA in all foundation courses and within the 30 semester-hour program. A grade of C or above is required in each course in order to graduate.

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18-21 hrs

9-12 hours of graduate business courses outside the Department of Accounting approved by the department chairperson or program advisor 9-12

30 hrs

ACCOUNTING (ACC)


Prerequisite: full admission to a graduate or certification program of the university.

Not open to students who have credit in ACC 201 or equivalent.

Not applicable toward the credit hours required for graduate degrees in the Miller College of Business.

625 Tax Planning and Research. (3) A study and analysis of strategic tax issues and problems emphasizing tax planning and research methodology and computer-assisted tax research.

Prerequisite: ACC 410; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

630 Accounting Information Systems. (3) A study of data management situations unique to the accounting function as well as other data management resources and applications in organizations. Focuses on understanding how to design, implement, and manage effectively the accounting applications and data resources.

Prerequisite: ACC 306; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.
650 Attestation Principles and Practices. (3) Attestation services provided by the external auditor. Topics include auditing standards and procedures, reporting responsibilities, and ethical and professional responsibilities.

Prerequisite: ACC 451; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

655 Selected Topics in Accounting. (3) Special topics of current concern to the accounting profession.

Prerequisite: full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

660 International Accounting Issues. (3) A study of the internal and external uses of accounting in an international environment. Major emphasis on accounting and managerial issues of multinational corporations such as currency translation, financial reporting and disclosure, transfer pricing, standards setting, and current issues.

Prerequisite: ACC 302; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

665 Seminar in Management Accounting. (3) Special topics of current concern to the accounting profession. Discussion topics range from a historical perspective of management accounting to current items affecting the accumulation, analysis, and reporting of financial information.

Prerequisite: ACC 306 or MBA 631; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.


Prerequisite: ACC 440; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.


Prerequisite: ACC 440; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

690 Seminar in Professional Issues. (3) Covers topics relevant to the public accounting profession and concentrates on current issues.

Prerequisite: ACC 302; full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

695 Accounting Capstone. (3) Synthesis and integration of knowledge and skills learned in the MSA program. Integrating accounting issues in areas such as assurance services, accounting systems, financial accounting, managerial cost accounting, and income tax accounting, using cases, reading, and literature.

Prerequisite: full admission to a graduate program of the university.

Open only to MS in accounting majors or by permission of the department chairperson.

697 Independent Study in Accounting. (1-3) Some special phase of accounting studied in depth. The topics selected, methods of study, and credit hours must be approved by the department.

Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.

A total of 3 hours of credit may be earned.

Open only to MS in accounting majors or by permission of the department chairperson.
CERTIFICATE IN HEALTH ECONOMICS, POLICY, AND ADMINISTRATION

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<td>RMI 570</td>
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12 hrs

ECONOMICS (ECON)

509 Survey of Economics. (3) Micro- and macroeconomics for those without economics credit at the undergraduate level. Satisfies the prerequisite of courses requiring ECON 201 and 202, but is not acceptable as credit for meeting the requirements of any graduate degree in business administration. May not be used to satisfy an economics major area requirement for the master of arts in education degree.

*Not applicable* toward credit hours required for graduate degrees in the Miller College of Business.

*Not open to* students who have credit in ECON 201, 202.

511 Environmental Economics. (3) The application of economic principles to environmental problems. Emphasizes application of the economist’s decision-making model to environmental issues and the advantages and shortcomings of the economist’s analysis.

524 Introduction to Econometrics. (3) Quantitative methods in economic research. Emphasizes construction of economic models and testing of their predictive power. Topics include correlation and regression techniques and the specific problems that arise in applying these to economic data.

*Prerequisite:* ECON 201, 202, 221; MATHS 132 or its equivalent.

*Not open to* students who have credit in ECON 424.

532 Labor Relations and Law. (3) Study of collective bargaining, the joint determination by employers and employees (through their representatives) of the problems of the employment relationship—encompassing both the negotiation and administration of the labor agreement with primary emphasis upon the rules governing these processes.

*Prerequisite:* ECON 201, 202.

*Not open to* students who have credit in ECON 332.

541 The Theory of Monetary Policy. (3) A theoretical presentation of how the board of governors of the Federal Reserve System modifies the economic climate within which the institutions of the nation operate and of the problems of government finance as they relate to the board’s goal of general economic stability.

*Prerequisite:* ECON 201, 202.

*Not open to* students who have credit in ECON 441.

545 Economics of Government Budgets. (3) Analysis of economic theory behind alternative
methods of financing government budgets and debt management. Emphasizes economic consequences of budgets by examining incidence, shifting, and incentives regarding provision of public services and alleviation of economic insecurity. Inflation as tax is considered.

*Prerequisite: ECON 201, 202.

*Not open to* students who have credit in ECON 345.

548 Health and Economics. (3) Examines how institutions and incentives affect the health care choices people make. Topics include the demand and supply of medical care, the effects of health insurance, professional licensing, pharmaceutical regulations, and government involvement in health care.

*Not open to* students who have credit in ECON 348.

581 Workshop on Economic Education. (1-3) Designed to give the teacher who is not a specialist in economics an understanding of the American economy and to suggest specific techniques by which this understanding can be integrated into the teaching of other subjects at all levels of instruction.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

585 Urban Economics. (3) The systematic economic structure of the city and its component parts. The ways in which the economic structures of cities and regions obstruct or facilitate the attainment of the goals of the communities.

*Prerequisite: ECON 201, 202.

*Not open to* students who have credit in ECON 485.

592 Readings and Directed Study in Economics. (1-3) Students will pursue their interests in specialized economics subjects under the direction of a member of the economics staff. Topics different from or studied in greater depth than those treated in other economics courses.

*Prerequisite: 6 hours of credit in economics.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

595 Seminar in Economics. (1-3) Economic problems and issues of special interest to students and the instructor. Permits in-depth studies of topics not formally treated in other courses, thereby exposing interested students to a wider variety of economic problem-solving situations.

*Prerequisite: ECON 201, 202, or 509; permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

*Not open to* students who have credit in ECON 495.

610 Advanced Topics in Managerial Economics. (3) Focuses on combining economic theory and econometrics to analyze and present solutions in written and oral formats to a variety of actual business problems, including case studies involving local firms and government agencies.

*Prerequisite: ECON 524, or permission of the instructor.

612 State and Local Economic Development. (3) This course presents the economic foundations for managing state and local economic development activities. Neoclassical and modern growth theory, and the fundamentals of business location theory are presented, along with public budgeting and institutional detail of economic development activities within state and local government activities within developed economies.

*Prerequisite: full admission to a BSU graduate program.

615 International Economics. (3) Classical and modern theories of exchange rates, gains from trade, factor movements, international money markets, and barriers to trade. Includes analysis of international commercial policy.

*Prerequisite: ECON 201, 202 or equivalent, or permission of the department chairperson.

*Open only to* students who have been admitted to a university graduate program.

683 Health Economic Analysis. (3) Studying health economics will provide students with the tools necessary to analyze the interrelationship of health care resources, providers, consumers,
and markets. By the end of this course, students will demonstrate a conceptual understanding of health economics and how it relates to the US health care system.

*Prerequisite:* ECON 548 or MBA 651.

693 *Health Economics and Policy.* (3) Applies economic concepts to understand how policy decisions made at various levels (of business and government) affect health care access, quality, and cost. Specific applications may be drawn from the life sciences industry.

*Prerequisite:* ECON 683.

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**FINANCE AND INSURANCE**

[www.bsu.edu/insurance](http://www.bsu.edu/insurance)
Whitinger Business Building 301, 765-285-5200

**BUSINESS LAW (BL)**

560 *Survey of Business Law.* (3) The nature, role, and historical development of the law: the structure and operation of our legal system. The essential elements of tort, contract, agency, and partnership law.

*Prerequisite:* full admission to a graduate program of the university.

*Not open to* students who have credit in BL 260.

597 *Independent Study in Business Law.* (1-6) Some phase of business law studied in depth. The topic selected, methods of study, and credit hours allowed must be approved by the department chairperson.

*Prerequisite:* full admission to a graduate program of the university and permission of the department chairperson.

A total of 6 hours of credit may be earned.

663 *Commercial and Business Organization Law.* (3) Principles of business law applicable to business organizations. The Uniform Commercial Code and creditors’ rights including bankruptcy and property law.

*Prerequisite:* BL 260 or 560; full admission to a graduate program of the university.

665 *Law, Ethics, and Public Policy in Business.* (3) Introduces principles of business ethics, with focus on legal, public policy, and ethical issues facing private enterprise. Topics include business responsibility to the public, the environment, consumers, shareholders, employees, suppliers, and others, as today’s manager must balance profitability, ethical responsibility, good corporate citizenship, and risk of legal liability.

**FINANCE (FIN)**

500 *Corporation Finance.* (3) Principles underlying the financial management of nonfinancial corporations. Topics include: goals of the firm; financial planning, forecasting, and control; principles of valuation; investment decisions under certainty and uncertainty; capital structure decisions and cost of capital; dividend policy; management of current assets; sources of short-term funds and security law.

*Prerequisite:* admission to a graduate or certification program of the university; ACC 201 or 501 or equivalent.

*Not open to* students who have credit in FIN 300 or equivalent.

645 *Business Analysis for Value Creation.* (3) Provides a conceptual framework for business analysis and examines the valuation fundamentals of a business. Topics include: financial analysis, managing privately held firms, entrepreneurial finance, capital budgeting, and structure.

*Prerequisite:* FIN 500 or the equivalent; full admission to a graduate program in the Miller College of Business.
Open only to students with full admission to a graduate program in the Miller College of Business.

650 Investment Management. (3) 
Introduction to investments, securities markets, transactions in stocks and bonds, market efficiency, risk, utility, portfolio theory, valuation and analysis, options, and futures markets.
Prerequisite: FIN 500 or equivalent; full 
Open admission to a graduate program in the Miller College of Business.

680 Global Financial Policy. (3) 
Capstone examination of the financial management of the global firm. Emphasizes the firm's strategic use of market imperfections when operating in a risky international environment. Explores how exchange rate management adds another dimension to managing the global firm and creates profit opportunities.
Prerequisite: FIN 500 or equivalent; full 
Open admission to a graduate program in the Miller College of Business.

697 Independent Study in Finance. (1-6) 
Designed for academically qualified students who wish to study some phase of finance. An intensive individualized program of reading, research, or analysis of various finance topics under the guidance of a faculty member.
Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.
A total of 6 hours of credit may be earned.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

RISK MANAGEMENT AND INSURANCE (RMI)

570 Risk Management and Insurance. (3) 
Examination of business and individual risk management and insurance, risk financing techniques, enterprise risk management, and additional related topics.
Prerequisite: full admission to a graduate or certification program of the university or permission of the department chairperson.

597 Independent Study in Insurance. 
(1-6) For academically qualified students: study of some selected phase of insurance. An intensive individualized program of reading, research, or analysis of various insurance topics under the guidance of a faculty member.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

Master of arts in education (MAE) in business education
MASTER OF ARTS IN EDUCATION BUSINESS EDUCATION

Admission

Applicants must meet the admission requirements of the Graduate School and be formally admitted to the program by the Miller College of Business MAE Admissions Committee. The Committee will consider applicants' academic records, potential leadership qualities, and any other information deemed relevant by the committee. The committee's decision is always final. The program is designed for middle school, secondary, and postsecondary business and marketing educators or those individuals who aspire to become middle school,
secondary, and/or postsecondary business and marketing educators.

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Educational Foundations

EDPSY 600 Adv Ed Psy (3)

or

603 Human Devel (3) 3

Educational Research and Measurement

EDPSY 641 Statist Meth (3)

or

EDPSY 646 Tests Meas (3) 3

Pedagogy and Curriculum

EDCUR 620 Sec Sch Cur (3)

630 Jr H Mid Cur (3)

EDRDG 620 Content Rdg (3)

EDSEC 695 Dyn Sec Clrm (3)

EDTEC 650 Curric Tech (3)

EDPSY 520 Int Gft/Tlnt (3)

or

SPCED 600 Except Child (3) 3

30 hrs

CERTIFICATE IN INFORMATION SYSTEMS SECURITY MANAGEMENT

Admission requirements

1. Applicants pursuing only a certificate program will be admitted as nondegree students.

2. Applicants must complete an application form from the Graduate School and provide two copies of official transcripts from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work.

3. Standards for admission

a. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.

b. Satisfy one of the following

   i. An undergraduate cumulative GPA of at least 2.75 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate degree, is used to calculate the GPA.)

   ii. A cumulative GPA of at least 3.0 on a 4.0 scale in the latter half of the baccalaureate.

   iii. Students not meeting these criteria may be considered for admission at the discretion of the Department of Information Systems and Operations Management program director.

4. Students who are currently enrolled in the Graduate School and who wish to pursue this certificate program, must apply for admission to the program before 6 of the required credits are completed.

5. Graduate students enrolled only in a certificate program may not hold a graduate assistantship.

6. Students may be enrolled full- or part-time in the certificate program.

7. Students who are currently enrolled in a graduate program of study leading to a degree who wish simultaneously to pursue this graduate certificate within the School of Extended Education must inform the Department of Information Systems and Operations Management program coordinator and the School of Extended Education of their intent to seek the graduate certificate.

8. Completion of a graduate certificate does not guarantee admission into a graduate degree program.

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BUSINESS EDUCATION (BED)

551 Practicum in Business and Marketing Education. (1-6) Supervised experience in curriculum planning and development of instructional materials for business and marketing education at the secondary and postsecondary levels.

A total of 6 hours of credit may be earned.

582 Improvement of Instruction in Marketing Subjects. (3) For the person with a baccalaureate degree in a discipline other than marketing education who is seeking licensure as a marketing education teacher/coordinator.

Prerequisite: EDSEC 380 or equivalent; full admission to graduate program of the university.

Open only to students seeking marketing education certification.

592 Managing In-School Laboratory and Cooperative Business/Marketing Programs. (3) Special techniques and knowledge for managing in-school laboratory and business, career and technical, marketing, and interdisciplinary cooperative education programs.

593 Philosophy, Organization, and Administration of CTE. (3) The principles upon which career/technical education is organized, administered, and supervised; federal and state regulations; agencies that provide delivery systems for career/technical education; vocational rehabilitation, and programs for persons with special needs.

594 Survey of Career/Technical Education Program Areas. (3) An overview of career/technical education program areas. Includes program administration and supervision, objectives, the occupations for which training is offered, curricula, equipment and facilities, student selection, in-school laboratories, field-training opportunities, and youth organizations.

600 Internship in Career/Technical Business Education. (1-4) Approved full-time employment in an office where students perform a variety of duties under departmental supervision. Each hour of credit requires 375 hours (500 hours for Rules 46/47) of approved, supervised, paid employment during a semester and submission of various employment reports to the supervisor by employer and intern.

Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.

A total of 4 hours of credit may be earned. Open only to students seeking the Indiana career/technical business endorsement.

602 Internship in Marketing Education. (1-4) Full-time employment in an approved marketing occupation under departmental supervision. Students perform a variety of duties for a broad view of marketing occupations. Each hour of credit requires 375 hours of approved employment and submission of various reports by the employer and intern.

Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.

A total of 4 hours of credit may be earned. Open only to students seeking licenses as marketing education teacher/coordinators.

616 Research Methods in Business and Marketing Education. (3) The concepts and methodology used in business and marketing education research; introduction to research design, methodology, research limitations, and proposal preparation; analysis of completed research in business and marketing education; determination of needed research.

617 Administration of Business and Marketing Education Programs. (3) The purposes, functions, and principles of administration and supervision of business and marketing education programs. Uses case studies and simulations to solve business and marketing education problems under conditions of uncertainty. Uses problem solutions to teach decision making, organization planning, and strategy formulation.

620 Improvement of Instruction in Technology for Business and Marketing Programs. (3) Research, issues, strategies, and
methods of teaching technology and communications in secondary and postsecondary business and marketing education programs. Open to students teaching business and/or marketing education or those seeking a business and/or marketing education teaching credential.

622 Improvement of Instruction in Basic Business and Marketing Programs. (3) Methods, materials, and strategies for teaching basic business and marketing in secondary and postsecondary programs. Open to students teaching business and/or marketing education or those seeking a business and/or marketing education teaching credential.

624 Advanced Cooperative and Laboratory Methods. (3) Techniques for improving and refining cooperative and laboratory methods in business and marketing education programs. Encompasses the development, operation, and evaluation of cooperative education and laboratory business and marketing education methods.

625 Problems and Issues in Business and Marketing Education. (3) Identification of the problems in constructing curriculum and implementing sound business and marketing education at the secondary and postsecondary levels and a study of possible solutions; assessment of the significance of legislative, economic, and societal events in business and marketing education decision making.

627 Seminar in Business and Marketing Education. (1-3) Individual investigation into current problems, issues, and developments in business and marketing education at the secondary and postsecondary levels. Assigned readings and conferences.

A total of 3 hours of credit may be earned.

628 Workshop in Business and Marketing Education. (1-8) Curriculum planning; test construction; preparation of other visual aids, enrichment materials, and resource units; and similar concerns at the secondary and postsecondary levels.

A total of 8 hours of credit may be earned.

650 Independent Study. (1-12) For graduate students with excellent academic records. Studies in some phase of business education, marketing education, or related area. The project selected, methods, and credit hours must be approved by the department chairperson and supervising faculty member.

A total of 12 hours of credit may be earned.

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT (ISOM)

533 System Simulation. (3) Concepts and techniques of system modeling and simulation using computers. Includes computer simulation languages, statistical elements of simulation, and application of computer simulation to various practical business situations in manufacturing and service sectors.

Prerequisite: ECON 221; ISOM 351.

551 Operations Management. (3) Discusses methods and models for managing the operations function in service and manufacturing organizations. Topics include operations strategy, forecasting, operations planning and control, materials and inventory management, operations and staff scheduling, and quality management.

Prerequisite: ECON 221 or equivalent; full admission to a graduate program of the university.

Prerequisite or parallel: MGT 500.

Not open to students who have credit in ISOM 351 or equivalent.

600 Negotiations. (3) Examination of negotiation theories and practices in competitive business situations. Participative activities to evaluate negotiation process, develop confidence for participating in negotiation and conflict management, and analyze the behaviors of others in competitive settings. Students will develop effective negotiation skills and strategies through case discussions and negotiation simulations.

Prerequisite: MGT 500 or equivalent; admission to a graduate or certification program of the university.
601 Introduction to Computer and Network Security. (3) Introducing fundamental concepts of computer and network security and security architecture using a look at the TCP/IP protocol and the tools used to interpret its traffic. Analyze case studies, formulate a comprehensive security policy with hands-on experience of the latest intrusion detection techniques are provided.

602 Host Hardening. (3) The process of protecting a system against unknown threats. This course is designed for system administrators who need to anticipate attacks and compromises looking at the theories behind security and hardening a system and how to take very general approaches to organizational security.
   Prerequisite: ISOM 601.

603 Network Designs and Security Concerns. (3) Covers the fundamental concepts of network design, construction, and maintenance. Using case studies to take an in-depth look at the TCP/IP protocol and the tools used to read and interpret traffic. Providing students hands-on experience inside the world of Internet working, using the latest networking tools and techniques.
   Prerequisite: ISOM 602.

604 Security Technologies. (3) Covers the fundamental concepts of computer/network security and security architecture. Students will use case studies to unravel the method of attack and explain the security countermeasures while learning to formulate a comprehensive security policy. Provide students hands-on experience inside the world of hacking. Students will learn intrusion detection techniques.
   Prerequisite: ISOM 603.

605 Disaster Recovery and Computer Forensics. (3) Covers fundamental concepts of data protection, disaster recovery, and computer forensics. Provides readings and case studies. Students will learn strategies behind data protection and disaster recovery and best practice considerations for incident response. Students will be able to translate these best practice strategies into effective comprehensive policies for data management.
   Prerequisite: ISOM 604.

612 Systems Analysis and Design. (3) Concepts and techniques for the analysis of information needs, specification of system requirements, system development life cycle, and the design, development, and implementation of computer-based information systems in organizations including structured and prototype approaches.
   Prerequisite: MBA 621 or ICS 601.

613 Systems and Data Management: Analysis and Design. (3) Concepts and techniques for the analysis of information needs. Specification of data structures and system requirements in the design, development, and implementation of computer-based data management systems including structured and prototype development of commercial database management systems.
   Prerequisite: MBA 621 or ICS 601; full admission to a graduate program in the Miller College of Business.
   Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

614 Decision Support Systems. (3) Decision support systems as tools for improving managerial decision making. Strategies for designing decision support systems for various managerial functions. Case studies and commercially available software are used to solve practical problems.
   Prerequisite: MBA 621 or ICS 601; ISOM 321 or MBA 611; admission to a graduate program.
   Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

615 Information Resource Management. (3) Concepts and techniques of information resource planning and management including a discussion of the design, development, operation, and evaluation of information resource planning strategies in the context of corporate plans and objectives.
   Prerequisite: MBA 621; admission to a graduate program of the university.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

617 Distributed Information Systems for Business. (3) Concepts and techniques for analyzing business information needs of various organizations including teleprocessing networks, design of information networks, and the implementation of communication systems to meet the needs of end-user computing and distributed data processing functions.

Prerequisite: MBA 621; admission to a graduate program of the university.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

618 Information Systems Security. (3) Using case studies of hacking attacks, students will unravel the method of attack and explain the security countermeasures that defend against hackers. Learn how to formulate a comprehensive security policy, including password policy and incident handling, and how to identify, update, and implement a security policy in organization. Areas covered include: vulnerabilities of the major network systems, from OS to architecture and protocols; protecting against hacker attacks; analysis of network traffic and log files to detect intrusion signatures.

Prerequisite: MBA 621 or permission; full admission to a graduate program of the university.

619 Information Systems: Strategy and Applications. (3) Application of information systems concepts, database systems, and related techniques to practical situations selected from public and private sectors, including a discussion of implementation strategies of these concepts and techniques. Requires the completion of a major project.

Prerequisite: ISOM 613 or 617 or equivalent.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

653 Operations Scheduling and Inventory Management. (3) Basic theoretical, computational, and applied elements of aggregate scheduling and inventory management in manufacturing and service industries, including aggregation and disaggregation of production plans and deterministic and stochastic inventory management models and systems.

Prerequisite: ISOM 551 or equivalent; admission to a graduate program.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

654 Project Management. (3) Concepts and techniques addressing the project scope definition; plan development and execution; sequencing, scheduling, and controlling activities for timely completion of projects.

Prerequisite: MGT 500 or permission; admission to a graduate program of the university.

Not open to students who have credit in ISOM 300.

655 Quality Management. (3) A study of systems for managing, controlling, and assuring the quality of goods and services using statistical techniques to solve problems and achieve continuous improvement in planning and operations. Special emphasis on total quality management, six-sigma, ISO 9000, and Malcolm Baldrige.

Prerequisite: ISOM 551 or equivalent; full admission to a graduate program in the university.

Open only to Miller College of Business students or by permission of the department chairperson.

695 Advanced Topics in Information Systems and Operations Management. (1-9) Exploration of advanced topics in information systems and operations management of interest to faculty and students.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.
Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

697 Independent Study in Information Systems and Operations Management. (1-6) Supervised study of some phase of information systems and operations management in depth. The topic selected, methods of study, and credit hours allowed must be approved by the department chairperson and the supervising faculty member.

Prerequisite: permission of the department chairperson; full admission to a graduate program of the university.

A total of 6 hours of credit may be earned. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

698 Seminar in Information Systems and Operations Management. (1-4) Group or individual investigation into current problems, issues, and developments in information systems and operations management. Assigned readings and conferences.

Prerequisite: permission of the department chairperson; full admission to a graduate program of the university.

A total of 4 hours of credit may be earned. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

699 Internship in Information Systems and Operations Management. (1-6) Actual job experience in an organization with a continuing cooperative information systems and operations management program. Requires periodic written progress reports that will be evaluated by the assigned faculty member and the intern supervisor from the hiring organization. The topic selected will depend on the student’s option.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

MARKETING AND MANAGEMENT

www.bsu.edu/marketing
Whitinger Business Building 309, 765-285-5180

MASTER OF SCIENCE IN MANAGEMENT

There is a college moratorium on admission to this degree.

CERTIFICATE IN SELLING AND SALES MANAGEMENT

PREFIX NO SHORT TITLE CR HRS

MKG  505 Survey Mrktg (3) 3
     or
MBA  671 Mkg Mgt (3) 3

MARKETING (MKG)

505 Survey of Marketing. (3) A survey of marketing that reflects the social, economic, and international challenges facing marketing managers. Examines the roles of marketing in both society and business.
Prerequisite: full admission to a graduate or certification program of the university.

610 Business and Sustainability. (3) Examines business activity from an input-process-output perspective. Addresses design, materials flows, production, distribution, usage, and end-of-life disposition of materials throughout the life cycle of products and services and their impacts on resources and the integrity of environmental, social, and economic systems necessary for long-term human activity and quality of life.

Prerequisite: full admission to a graduate program of the university.

625 Professional Selling Skills and Practices. (3) Introduces the managing of the sales process exploring prospecting, information gathering, presentations, handling sales resistance, earning commitment, and follow-up. Other topics include buyer behavior and communication skills.

Prerequisite: admission to a graduate program of the university; MKG 505 or its equivalent.

630 Customer Relationship Management. (3) Examines the skills required in professional, service, and manufacturing organizations to satisfy customers with sound relationship strategies. In addition to covering the sales process, special topics include selling services, sales technology, ethics, customer lifetime value, and compensation structures. Discusses the links between business trends and needs for new approaches to selling.

Prerequisite: full admission to a graduate program of the university; MKG 505 or its equivalent.

635 Sales Management. (3) The roles and functions of the business-to-business sales manager will be examined. Also explores practices in recruiting, selecting, training, compensating, leading, motivating, and controlling the sales force.

Prerequisite: admission to a graduate program of the university; MKG 505 or its equivalent.

655 Business Research Methods. (3) Focuses on collecting, organizing, and using data as an aid to making managerial decisions. Business research and information gathering methods include design, development, information gathering, data interpretation, reporting, and strategic use of research findings. Students gather data from corporate sources, visits to Internet sites, field projects, or library files.

Prerequisite: full admission to a graduate program of the university.

697 Independent Study in Marketing. (1-3) For graduate independent study in some phase of marketing. May consist of an experiment, library research, or the analysis of current marketing practices and methods.

Prerequisite: MKG 300 or 505, permission of the department chairperson, and full admission to a graduate program of the university.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

MANAGEMENT (MGT)

500 Managing Organizational Behavior. (3) Examines theoretical and practical foundations of managing organizational behavior. Discusses functions of management, principles of individual and group behavior, human resource management/law, special issues of managing behavior in organizations, including quality of work-life, and ethical and social responsibility.

Prerequisite: admission to a graduate or certification program of the university.

Not open to students who have credit in MGT 300 or equivalent.

598 Seminar in Management Practices. (3) Intended for nonbusiness graduate students. Covers current topics related to management issues in various settings. Methods may include lectures, discussions, group projects, site visits, and individual research.

Prerequisite: permission of the department chairperson.

Not applicable toward any graduate degree in the Miller College of Business.

601 International Issues in Marketing and Management. (3) Discussion of business
strategies in global industries within economic, political, and international firms. Topics include strategic management processes, methods, policies, and entry strategies for marketing overseas. Based on case studies and/or projects.

**Prerequisite:** full admission to a graduate program of the university; MGT 500, MKG 505 or their equivalents.

620 Management and Marketing of Emerging Technologies. (3) Focuses on the strategic management of technology-based innovation in the firm, and the marketing of such technologies globally. Includes business theories and concepts in the business-to-business and business-to-consumer markets. Specific topics include communication technologies, biotechnology, genetic engineering, and nanotechnology.

**Prerequisite:** full admission to a graduate program of the university; MGT 500, MKG 505 or their equivalents.

640 Entrepreneurial Innovation and the Discovery of Opportunity. (3) Focuses on the individual entrepreneur and the process of creating (or discovering) innovative entrepreneurial solutions for real-world market opportunities. Trains students in creative decision-making processes that will help them conceive their own entrepreneurial venture.

**Prerequisite:** completion of all MBA foundation courses or their equivalents; full admission to a graduate program of the university.

*Not open to students who have credit in MGT 346 or its equivalent.*

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

642 Financing for New and Emerging Ventures. (3) Study of various financial considerations of venture creation including the sources of capital, components of financial management, venture and risk capital, and traditional and contemporary modes of investment in new start-ups.

**Prerequisite:** MGT 640.

646 New Venture Creation. (3) Survey course examining the process of conceiving, organizing, and launching a new business venture. Semester project involves the creation of a viable and compelling business plan.

**Prerequisite:** ACC 501, FIN 500, MGT 500, and MKG 505 or their equivalents; full admission to a graduate program of the university.

*Not open to students who have credit in MGT 449 or its equivalent.*

647 Entrepreneurial Planning and Feasibility. (3) Reviews process for developing and evaluating an entrepreneurial idea. Specific emphasis on feasibility of the idea. An overview of business description, market research, basic business financials, and implementation strategy is provided.

**Prerequisite:** completion of all MBA foundation courses or their equivalents; MGT 640; full admission to a graduate program of the university.

*Not open to students who have credit in MGT 347 or its equivalent.*

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

649 Entrepreneurial Strategy. (3) Integration of various principles, concepts, and theories of entrepreneurship including a critical analysis of various theories and the completion of a major field project under the guidance of an approved faculty member.

**Prerequisite:** MGT 647; full admission to a graduate program in the Miller College of Business; completed 12 hours of MBA core courses.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

661 Human Resources Management. (3) Emphasizes the basic functions of human resource management including planning, job analysis, selection, training, compensation, evaluation, safety, labor relations, and international issues. A combination of lecture, discussion, applied exercises, and case analysis will be employed.
Prerequisite: MGT 500 or equivalent; full admission to a graduate program of the university.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

695 Advanced Topics in Management. (1-9) Exploration of advanced topics in management of interest to faculty and students.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned. May be repeated for credit for different topics.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

697 Independent Study in Management. (1-6) Supervised study of some phase of management in depth. The topic selected, methods of study, and credit hours allowed must be approved by the department chairperson and the supervising faculty member.

Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.

A total of 6 hours of credit may be earned.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

698 Seminar in Management. (1-4) Group or individual investigation into current problems, issues, and developments in management. Assigned readings and conferences.

Prerequisite: permission of the department chairperson and full admission to a graduate program of the university.

A total of 4 hours of credit may be earned.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

699 Internship in Management. (1-6) Actual job experience in an organization with a continuing cooperative management program. Requires periodic written progress reports that will be evaluated by the assigned faculty member and the intern supervisor from the hiring organization. The topic selected will depend on the student’s option.

Prerequisite: completion of all course work for the MS in management and permission of the department chairperson.

A total of 6 hours of credit may be earned.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

COLLEGE OF COMMUNICATION, INFORMATION, AND MEDIA

www.bsu.edu/ccim
David Letterman Communication and Media Building 102, 765-285-6000
Dean of the College: Roger Lavery
Associate Dean: Lori Byers

INTERDEPARTMENTAL

NEWS (NEWS)

585 Advanced News Seminar. (3) Exposes students to multimedia storytelling. Working in teams, students produce integrated news or features presentations for varied media.
PROGRAM

The graduate program of the Department of Communication Studies offers students the opportunity to pursue advanced study in many facets of communication studies, including rhetorical studies, communication education, and applied and organizational communication. The master of arts in communication studies may serve as a terminal degree, as preparation for additional graduate study, or for professionalizing the standard secondary-school teaching license. The master of arts degree in communication studies can be completed in two years.

MASTER OF ARTS IN COMMUNICATION STUDIES

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

Degree requirements

- Candidates are required to complete either a thesis or comprehensive exams. If pursuing a thesis, students must enroll in THES 698, submit an approved thesis, and successfully complete an oral defense of that thesis. Candidates who elect to pursue comprehensive exams must successfully complete both a written exam and the oral defense of that exam.
- Candidates who elect to take RES 697 must submit and have approved a scholarly research paper and successfully complete both written and oral comprehensive exams.
- Applicants are required to complete the Graduate Record Exams (GRE) to be eligible for admission into the program.

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<td>Communication Liberal Arts and Sciences (CLAS) option, 15 hours</td>
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36 hrs

Organizational and Professional Communication Development (OPCD) option, 15 hours

| COMM   | 650| Comm Train           | 3      |
|        | 651| Org Process          | 3      |
|        | 652| Org Systems          | 3      |
|        | 653| Comm Consult         | 3      |
|        | 669| Prof Exper (3 or 6)  | 3      |

36 hrs

Courses required for one communication studies option (i.e., CLAS or OPCD) can serve as elective courses for students enrolled in the other option.

COMMUNICATION STUDIES (COMM)

601 Introduction to Communication Studies. (3) Introduction to theory and research in communication studies through survey, discussion, and evaluation of historical and
current trends, theoretical perspectives, and research exemplars. Includes research writing styles, critical reading, and literature searches. Designed for beginning graduate students in communication studies.

*Prerequisite:* permission of the department’s director of graduate studies.

**602 Quantitative Research in Communication.** (3) Explores quantitative research methods and statistics used in communication inquiry. Intended to enable students to understand, evaluate, design, and conduct research. Students will master basic techniques in data analysis and interpretation.

*Prerequisite or parallel:* COMM 601.

**605 Qualitative Research in Communication.** (3) Provides an understanding of how communication research is conducted in natural settings using qualitative research methods. Covers a variety of interpretive techniques designed to describe, decode, interpret, and conduct studies in naturally occurring communicative phenomena in many social contexts.

*Prerequisite or parallel:* COMM 601.

**610 Studies in Persuasion.** (3) Current theories, research, and practice in persuasion and social influence. Variables affecting implementation of persuasive principles and strategies.

**611 Theories of Rhetoric.** (3) Comprehensive survey of the principle figures, theories, and movements in rhetoric from the classical period to the present. Relationships between rhetorical theory and political, social, and/or critical theory are explored.

**612 Rhetorical Criticism.** (3) The description, analysis, interpretation, and evaluation of persuasive uses of symbols. Theories and methods of selected classical and modern critics are explored.

**614 Contemporary Rhetoric and Public Issues.** (3) Use contemporary understandings of rhetoric to explore organized public discourse common to a democratic society. Specific rhetorical constructs will be used to examine the deliberation of issues as they relate to selected historical periods, institutions, campaigns, movements, crises, and programs.

**620 Classical Rhetorical Theory.** (3) Explores the roots of rhetorical theory development by examining contributions of important theorists from ancient Greece and Rome. Offers insight into persuasion’s role in these ancient cultures and the influence that ancient scholars and rhetors have had on modern theory and practice.

**625 Interviewing.** (3) Examines and applies principles associated with informational, employment, appraisal, and counseling interviews. Topics include resumes, placement papers, job applications, interviews, and follow-up interviews.

**635 Interpersonal Communication.** (3) Contemporary theories, models, and pertinent research related to the communication process in relatively unstructured face-to-face settings. Understanding message exchanges between people and their influence on social interaction. Topics include communication models, perception, symbols, systems, self-concept, attitudes, meaning, and nonverbal messages.

**640 Interpersonal Communication in Contexts.** (3) Extensive and in-depth study of state-of-the-art scholarship in interpersonal communication. Survey of contemporary theoretical and applied social science literature pertaining to human interaction.

**650 Communication Training in Organizations.** (3) Application, research, and theory pertinent to training in organizations. Emphasizes methods of teaching effective communication skills to organizational members.

**651 Organizational Communication: Interpersonal and Intrapersonal Processes.** (3) Application of research and theory in interpersonal and intrapersonal processes in organizations. Emphasizes practical approaches to determining the causes of communication problems in organizations and devising effective solutions for those problems.
652 Organizational Communication: Systems, Culture, and Critique. (3) Application of research and theory to communication systems and cultures in organizations. Emphasizes critical approaches to analyzing communication in organizations.

653 Issues in Communication Consultation. (3) Role and obligations of the communication consultant. Emphasizes process consulting, consultation models, interpersonal and team decision-making skills, practical communication analysis, problem diagnosis, intervention strategies, client approach alternatives, and implementation strategies.

Prerequisite: COMM 601, 650, 651; permission of the department chairperson.

654 Group Communication. (3) Theories, research, and application related to group communication in professional and organizational settings. Applications to include, but not limited to, group decision making, team development, and process consulting.

660 Studies in Communication Theory. (3) Survey and analysis of the theoretical and experimental literature in communication studies. Review of contemporary theories, including analysis of concepts, models, and pertinent research relevant to communication studies.

665 Mediated Communication. (3) Survey of theory and research concerning communication mediated by technology. Historical, contemporary, and new technologies and their use, antecedents, processes, and outcomes in intrapersonal, interpersonal, group, organizational, and public communication. Includes social scientific, interpretive, and critical theories and research exemplars.

669 Professional Experience. (3 or 6) Paid, supervised work and learning experience related to careers in human communication with business firms or public agencies. Job description may include, but is not limited to, research, training, planning, informative or persuasive campaigns, problem solving, and conflict management.

Prerequisite: permission of the internship coordinator and/or department chairperson; 18 hours in communication studies.

A total of 6 hours of credit may be earned.

675 Coaching and Directing Forensics. (3) The rationale and philosophy of coaching secondary school forensic programs. Concentrates on developing a forensic team, tournament administration, coaching methods, and philosophies. Aids in developing coaching methods for interpretive, public address, and debate events.

679 Practical Experience. (3) Nonpaid supervised work and learning experience related to careers in human communication with business firms or public agencies. Job description may include, but is not limited to, research, training, planning, informative or persuasive campaigns, problem solving, and conflict management.

Prerequisite: permission of the internship coordinator and/or department chairperson; 18 hours in communication studies.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

690 Seminar in Communication. (3) Intensive study of selected topics from the literature or practice of communication. Topics will vary each semester. Content will be drawn from areas not dealt with in the regular curriculum.

Prerequisite: permission of the instructor.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

696 Directed Study in Communication. (1-3) Students study a particular topic in consultation with a member of the faculty.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.
PROGRAM

MASTER OF SCIENCE IN INFORMATION AND COMMUNICATION SCIENCES

The master of science in information and communication sciences is a graduate professional program that prepares students for career opportunities and leadership positions in organizational settings in which information and communication technologies are employed. Graduates of ICS are prepared to understand the implications of managing information and communication opportunities discovered in the design, production, and purposing of digital media products. These opportunities arise in the financial, health care, government, education, and all other sectors of the information and communication industry.

Graduates will achieve an understanding of the digital environment including its human, regulatory, and business contexts. They will be able to understand the technological options available for the delivery and distribution (or convergence) of media products across multiple digital platforms. They will become acquainted with the equipment and software applications available in designing or selecting each option.

This program will provide background and experiences in project processing including design, development, regulation and usability factors, important in implementing technologies intended to solve business communication problems. Students will explore the role and function of strategic thinking and management related to digital age business issues, including people, technology, competitiveness, productivity, and finance.

This program will assist students in learning how to learn. Because the fields of information and communication are so dynamic, students must be able to regularly identify needs and gather information to solve new problems independently and in groups or teams and to constantly prioritize opportunities as technologies change around them. Students will explore digital workflows and lifestyles in order to solve problems creatively in our new collaborative interactive environment.

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

Degree requirements

Students must complete a minimum of 38 credit hours.

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<td>Human Factor</td>
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Business electives

| ICS    | 605| Interper Mgt (3)     |
|        | 624| Know Mgt (3)         |
|        | 633| Sys Analysis (3)     |
|        | 634| Proj Mgt (3)         |
|        | 635| I C Projects (1-2)   |
|        | 640| I C Industry (3)     |
|        | 644| Econ Choice (3)      |
|        | 646| Tel/Net Mgt (3)      |
|        | 653| Consulting (3)       |
|        | 655| Prob Seminar (3)     |
|        | 661| Entrep (3)           |
|        | 666| Strat Pln (3)        |
|        | 675| I C Marketing (3)    |
Technology electives

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>ICS 623</td>
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<tr>
<td>ICS 625</td>
<td>Video Tech</td>
<td>(4)</td>
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<tr>
<td>ICS 632</td>
<td>I C Tech Sem</td>
<td>(2)</td>
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<td>ICS 645</td>
<td>Evo Database</td>
<td>(3)</td>
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<td>ICS 648</td>
<td>Sat Wire Lab</td>
<td>(3)</td>
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<td>ICS 649</td>
<td>Oper Systems</td>
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<td>ICS 650</td>
<td>Wireless 2</td>
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<td>ICS 663</td>
<td>Network Dsgn</td>
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<td>Video Syst</td>
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<td>ICS 684</td>
<td>Info Access</td>
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<tr>
<td>ICS 699</td>
<td>IC Mgt Probs</td>
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At least one elective course outside CICS can be selected in consultation with the advisor and subject to the approval of the CICS director.

Degree recap

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Core requirements</td>
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<tr>
<td>Electives courses</td>
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<tr>
<td><strong>Total</strong></td>
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CERTIFICATE IN INFORMATION AND COMMUNICATION TECHNOLOGIES FOR NON-ENGINEERS

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Must take two elective courses selected with an advisor. Sample courses available are:

6 hours from

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>CS</td>
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<td>MBA</td>
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or

Courses approved by the departmental advisor 6

CS 639 must be taken as a seminar in Linux.

INFORMATION AND COMMUNICATION SCIENCES (ICS)

600 Survey of Management. (3) General management principles and problems, including broad study of four primary functions of the manager—planning, organizing, motivating, and controlling. Emphasizes current management practices in a dynamic economy and ways that problem-solving techniques, communication, and coordination affect managerial success.

601 Problems in Information and Communication Sciences and Lab. (3) An overview of problems and issues concerning human needs, technological changes, and strategic opportunities in voice-, data-, and video-based business areas for solving information and communication problems. Includes performance-based, hands-on experience.

602 Human Communication: Process and Theory. (3) Fundamental principles associated with the ways people process communication. Emphasizes how barriers affect human communication processing and provides an understanding of models of human information processing and their application in real-world situations.

605 Interpersonal Management Skills. (3) Addresses needs identified by managers over the past 10 years for effectiveness in varied businesses. Covers problems of perception, management choices, individual skills, and problem-handling abilities in a business context. Uses performance activities to stress people skills and individual effectiveness.

620 Telecom Technologies, Standards, and Lab. (4) Fundamentals of transport technologies emphasizing wireline information transmission, switching, technology choices, and the merits of each. Practical operating concerns, standards, and current and evolving media and options for
transmitting voice, data, and video signals. Includes labs.

Prerequisite: ICS 620.

623 Integration. (3) Surveys technical concepts of systems and resources available to information managers including the essentials of traffic theory, point-to-point media (voice, data, cable, fiber, microwave), interoperability, and future broadband communications. Presents an integration case problem.

624 Knowledge Management. (3) A compendium of ideas to introduce the methods and importance of transforming disparate information into knowledge in order to advance the profitability of the enterprise. Focus on the enormity and wealth of the information cache available from the lowest reaches of the companies joined to, or in, the farthest limits of the worldwide Internet.

625 Non-Broadcast Video, CATV, and Imaging Technologies. (4) Examines CATV business, local franchising practices, economics, and uses of signal distribution, interconnection, and capabilities. Explores nonbroadcast video technologies, slow and fast scan, text, graphics, etc. Emphasizes application, acceptance, and relative cost of different choices in varied environments.

630 Research Methodologies and Problems Seminar. (3) Concepts of research, including steps involved in a research project, e.g., design; data collection, analysis, and presentation; statistical techniques; and research methodology. Prepares students for applied research in an information and communication environment, and effective presentation of results.

632 Problems in Information and Communication Technologies Seminar. (2) Emphasizes evolving problems in technologies in this field. Each semester students explore a different set of problems in some area of technology or problems that result from combining technologies to address an institutional problem.

633 Systems Analysis and Design. (3) Study of various concepts and techniques for analysis of information needs, specification of system requirements, system-development life cycle, and design, development, and implementation of computer-based information systems in organizations. Includes structural and prototype approaches.

634 Project Management. (3) The class helps to develop a definition and understanding of a project, its components, and the challenges and management of a project. Students work together on a team project during class to increase awareness of the processes and challenges of project management. The objective is to help make use of project management skills.

635 Information and Communication Projects. (1-2) Provides a variable credit experience for faculty-guided I and C projects. Requires project report.  
Prerequisite: permission of the director.  
A total of 2 hours of credit may be earned.

640 Information and Communication Industry. (3) Overview of major areas in the industry; historic perspective of major companies and leaders; examination of cultures, markets, and needs being met. Includes such topics as print, broadcast, voice, data, video, software, satellite, and emerging special areas of the 21st century.

642 Regulatory Research in Context/Problems in Information Communication. (3) Overview of regulations from the early twentieth century to the present. Emphasizes post-1982 FCC changes deregulating telephone, CATV, and broadcast industries. Includes research in the regulation of emerging services and
technologies, freedom of speech, ownership and distribution of new information forms, and limitations and uses of technology.

643 Social Responsibility in I/C Policy. (3) Political, economic, social, and governmental elements that interact with I/C systems. Emphasizes major contemporary issues confronting broadcasters and others in the electronic media. Covers ethics in decision making, definition of standards, and responsibilities in electronic communication.


645 Evolving Database Systems. (3) Explores data relationships, structures, normalization, modeling, and database methods. Includes design and applications in problem settings from small organizations to data-warehousing level problems.

646 Management of Telecom/Network. (3) Acquaints students with the problems, trends, and responsibilities of management in the telecommunications industry with attention to CIO concept. Guest lectures, discussions, and management role playing help students become familiar with problems and practices in the industry.

648 Wireless and Satellite Communications. (3) Explores design parameters of systems and emphasizes capabilities for users. Compares current and planned systems and considers future technologies. Explores practical applications and costs and provides experience through satellite, PCS, cellular, or other wireless area project.

649 Comparative Operating Systems. (3) General functions of operating systems; comparative capabilities of varied operating systems from an enterprise perspective. Includes implementation mechanisms.

650 Wireless 2. (3) In-depth examination of CDMA, wireless data, both terrestrial and satellite based, wireless LANs, GSM, and wireless Internet. Field trips to sites using wireless technologies for various applications; subject matter experts from industry will be employed as guest speakers. 

*Prerequisite:* ICS 648.

653 Issues in Communication Consultation. (3) Issues related to the role and obligations of the communication consultant and business of consulting. Emphasizes process consulting, consultation models, interpersonal and team decision-making skills, practical communication analysis, problem diagnosis, intervention strategies, client approach alternatives, and implementation strategies.

655 Special Problems Seminar. (3) Addresses varied problems related to operating organizations in the twenty-first century. Through case studies, students explore business issues, problems in using technologies in evolving areas and in new businesses. Topics vary with each offering.

660 Human Factors, Needs Assessment, and User-Driven Design. (3) Examines problems of information and communication technologies from the users’ perspectives. Includes development of project scoping devices, needs-assessment instruments in information and technology projects, and problems and opportunities involved with transparent systems and user-driven technology development.

661 Entrepreneurship/Intrapreneurship. (3) Introduces general theories, principles, concepts, and practices of entrepreneurship and intrapreneurship emphasizing the evolving information and communication industries. Case study analysis and group projects.

662 Usability Testing. (3) Discussion of the human factors, concepts, and techniques used in testing systems and products for their usability. This course involves designing and completing testing of a system or product selected by the student.
**663 Network Design: The Problems of Moving Voice, Data, and Video.** (3) Explores the problems of moving voice, data, and video over networks and the use of the computer as an informational tool in network design for organizations. Discusses networking problems in both distributed and centralized systems.

**664 Information Delivery Systems, Selection, Design, and Evaluation.** (3) Examines voice, data, and visual information problems in hybrid and digital projects. Explores design/configuration choices, reviews central office, private exchange, and internet telephony choices, LANS and intranets, video alternatives, and cost effective decision making.

**666 Strategic Planning for Information Technology.** (3) Determination of corporate vision and alignment of technology-based solutions resulting in the strategic use of information and communication systems. Covers the positioning of the IT platform and the alignment of business with technology for the longer term.

**667 Design of Video-Based Learning Systems.** (3) Explores various analog and digital applications of video in on-site and distance learning education and training environments. Alternative technologies and cost effective approaches for designing video-based systems and delivery are also discussed.

**675 Information and Communication Marketing.** (3) Covers the special problems, techniques, trends, and responsibilities of the marketing function within technology systems including service providers to the enterprise users of communications and information technology. Case histories highlight and illustrate a number of the learning points and objectives.

**684 Information Access and Management of Information Services.** (3) Explores document and data management problems in various information service enterprises or information centers. Surveys available technologies, such as imaging or data warehousing, to make information more user accessible and cost effective.

**691 Internet, TCP/IP, and Internetworking.** (3) Insight into the field of internetworking, TCP/IP, and other components and services that underlie the Internet. In-depth view of components and their usefulness for the Internet. The technical side of the field with hands-on experiences, CAI, and lab activities.

*Prerequisite:* ICS 620.

**692 Advanced Network Configuration.** (3) Delves deeper into the implementation, operation, and management of routed networks and more complex internetworking topics. Topics include advanced router configurations, VLSM, remote access, and trouble shooting in multi-vendor environments.

**695 Independent Study.** (1-3) Individual study of specific topics in information and communication sciences. Group and individual investigations are included.

A total of 4 hours of credit may be earned, but no more than 3 in any one semester or term.

**696 Information and Communication Research and Applications.** (2) Project-oriented investigation into the application of IC concepts and techniques in practical situations selected from the public or private sectors. Implementation strategies are developed and applied within the problem.

**698 Problems in Information Systems.** (3) Seminar on topics from various areas of information systems. Content will vary each offering and includes projects involving independent research and written and oral presentations. (May serve as capstone course.)

*Prerequisite:* permission of the director.

**699 Problems in Information and Communication Management.** (3) Seminar on various management topics and a supervised project on a management problem in information and communication. (Serves as capstone course.)

*Prerequisite:* permission of the director.
PROGRAMS

Master of arts (MA) in journalism and in public relations

Admission requirements

Applicants must meet the admission requirements of the Graduate School, meet a cumulative undergraduate minimum grade-point average (GPA) of 3.0 on a 4.0 scale, and submit official scores from the Graduate Record Examination (GRE). International students may substitute the Test of English as a Foreign Language (TOEFL) for the GRE and must achieve a minimum score on the TOEFL of 550. Candidates without the required minimum GPA or GRE/TOEFL score will be considered for admission upon submission of supplemental evidence as specified by the Department of Journalism.

Applicants must also submit three recommendations using department forms, a current resume or curriculum vitae and a 500- to 1,000-word narrative detailing relevant background, reasons for undertaking graduate study in this department, and the relationship of such study to long-term goals and interests in journalism or public relations.

MASTER OF ARTS IN JOURNALISM

Journalism graduate study emphasizes the theory, management, and research elements of the discipline as well as the skills.

The program takes students beyond the practical points of the profession to give them a behavioral perspective on their profession and its role in society. The program prepares students to enter the journalism profession, to move into positions of leadership, and to continue education and research at the doctoral level. In addition, students select either a practicum or an internship at the graduate level to gain more practical experience if their backgrounds require it.

Students are required to earn a grade of C or better in each graduate course.

The program gives students the opportunity to culminate their course of study with a traditional thesis, or creative project. The creative project may consist of a major writing project of publishable quality or other professional option.

Degree requirements

PREFIX   NO  SHORT TITLE  CR HRS

Core requirements

Professional track, 33-41 hours

CRPRJ 698 Creat Proj (3 or 6) 3 or 6
JOURN 601 Jrn Com Std 3
606 News Mgmt 3
611 Sem Jrn Prin 3
612 Writing Semr 3
613 Sem Lit Jrn 3
615 Inv Rept 3
680 J Comm Resch 3

Students must complete one emphasis listed below

Business reporting emphasis, 9 hours

JOURN 630 Bus Report 3

6 hours from
ACC 501 Fin Acct (3)
ECON 509 Survey Econ (3)
MGT 500 Mng Org Beh (3)
MKG 505 Survey Mrktg (3) 6

General Journalism emphasis,
9 hours
9 hours electives from JOURN or NEWS 9

Information and communication technologies emphasis, 14 hours
ICS 620 Technol 4
ICS 621 Info Movemnt 4

6 hours from
CS 639 Seminar (3)
ICS 623 Integration (3)
ICS 624 Know Mgt (3)
ICS 645 Evo Database (3)
ICS 684 Info Access (3)
ICS 691 Internetwork (3)
ISOM 601 Intro Cp Sec (3)
MBA 623 Elect Comm (3) 6

Literary journalism emphasis, 9 hours
ENG 611 Wkp Cr Nonfi 3
JOURN 614 Writ Lit Jrn 3
Electives 3
Students in the literary journalism emphasis must take CRPRJ 698 for 6 credit hours.

Thesis track, 36-41 hours
JOURN 601 Jrn Com Std 3
JOURN 606 News Mgmt 3
JOURN 611 Sem Jrn Prin 3
JOURN 612 Writing Semr 3
JOURN 613 Sem Lit Jrn 3
JOURN 615 Inv Rept 3
JOURN 680 J Comm Resch 3
THES 698 Thesis (1-6) 6

MASTER OF ARTS IN PUBLIC RELATIONS

Public relations graduate study stresses the planning and organization required to improve levels of public understanding based on two-way communications. Emphasis is placed on public relations as a professional activity. The program gives the student an understanding of the interrelationships of management, organization, and communication theories. The students will be assigned to either a practicum or an internship course to gain practical experience and develop a portfolio if their backgrounds require it.

Students are required to earn a grade of C of better in each graduate course.

Degree requirements

PREFIX NO SHORT TITLE CR HRS

Core requirements

Professional track, 33-44 hours
CRPRJ 698 Creat Proj (3 or 6) 3 or 6
JOURN 601 Jrn Com Std 3
PR 605 PR Mgt 3
PR 620 Sem PR Fdnts 3
PR 660 PR Theories 3
PR 662 PR Case Stud 3
PR 664 PR Eval Tech 3
PR 665 PR Campaigns 3
Electives 3

3 hours from
EDPSY 641 Statist Meth (3)
SOC 682 Statistics (3) 3

33-36 hrs

Students may complete one emphasis listed below to complement the MA in public relations. If an emphasis is selected, the 3 hour elective requirement may be satisfied with a course listed within an emphasis area below.

Business emphasis, 12 hours
ACC 501 Fin Acct 3
ECON 509 Survey Econ 3
MGT 500 Mng Org Beh 3
MKG 505 Survey Mrktg 3

Communication emphasis, 12 hours
COMM 610 Persuasion 3
COMM 635 Intpers Comm 3
COMM 660 Comm Theory 3
ICS 601 Prob in I C 3

Information and communication technologies emphasis, 14 hours
ICS  620  Technol  4
621  Info Movemnt  4

6 hours from
CS  639  Seminar (3)
ICS  623  Integration (3)
624  Know Mgt (3)
645  Evo Database (3)
684  Info Access (3)
691  Internetwork (3)

ISOM  601  Intro Cp Sec (3)
MBA  623  Elect Comm (3)  6

Public affairs emphasis, 12 hours
POLS  503  Issues Pols  3
572  Pol Campaign  3
SOPSY  610  Social  3

3 hours from
HIST (approved by graduate advisor)  3

Sport communication emphasis, 12 hours
PEP  690  Sp Sociology  3
SPTAD  603  Eth Phil Spt  3
676  Sp Admin Pol  3

3 hours from
SPTAD  611  Sp Marketing (3)
615  Sport Law (3)  3

Students without undergraduate degrees in public relations or journalism (or substantial professional experience in journalism or public relations) will be required to take up to 12 hours at the undergraduate level. Students must meet departmental selective admission requirements.

Thesis track, 36-47 hours
JOURN  601  Jrn Com Std  3
680  J Comm Resch  3
PR  605  PR Mgt  3
620  Sem PR Fdnts  3
660  PR Theories  3
662  PR Case Stud  3
664  PR Eval Tech  3
665  PR Campaigns  3
THES  698  Thesis (1-6)  6
Electives  3

3 hours from
EDPSY  641  Statist Meth (3)
SOC  682  Statistics (3)  3

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36 hrs

CERTIFICATE IN PUBLIC RELATIONS, CORPORATE COMMUNICATIONS

PREFIX  NO  SHORT TITLE  CR HRS

PR  620  Sem PR Fdnts  3
662  PR Case Stud  3
665  PR Campaigns  3

6 hours from
ACC  501  Fin Acct (3)
ECON  509  Survey Econ (3)
FIN  500  Corporation (3)
ISOM  551  Op Mgt (3)
MBA  601  Ldr & Ethics (3)
MGT  500  Mng Org Beh (3)
MKG  505  Survey Mrktg (3)  6

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15 hrs

CERTIFICATE IN PUBLIC RELATIONS EDUCATION

PREFIX  NO  SHORT TITLE  CR HRS

PR  620  Sem PR Fdnts  3
662  PR Case Stud  3
665  PR Campaigns  3

6 hours from
EDAD  600  Intro Ed Led (3)
635  Ed Dec Makng (3)
640  Public Rel (3)
684  Ed Fin Ethcs (3)
686  School Law (3)
EDHI  610  Isu High Ed (3)  6

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15 hrs

JOURNALISM (JOURN)

516 World Press Systems. (3) Survey of the international news media, with particular attention to the four press theories; ownership, structure, and access to the media; the political,
economic, and social environment in which the media operate; and government-media relations. Comparison with the American media.

518 Science and Technical Writing. (3) Description of methods and techniques of science and technical writing and editing. Emphasizes clarity in technical writing and ability to translate terminology into lay language in science writing.

Not open to students who have credit in NEWS 418.

525 Journalism Law. (3) Constitutional and statutory law and regulating agencies affecting the operations of the print and broadcast media, with special attention given to recent Supreme Court rulings.

Not open to students who have credit in JOURN 275.

534 Advertising Photography. (3) Advertising, commercial, and concept illustration photography for the print media. Students must have their own 35mm cameras and photographic supplies.

Prerequisite: JOURN 436 or permission of the department chairperson.

535 Color Photojournalism. (3) The principles, techniques, and materials of color photography as they apply to the publishing of color art work and photographs in printed publications. Students must have their own 35mm cameras and photographic supplies.

Prerequisite: JOURN 436 or permission of the department chairperson.

569 Journalism and Public Relations Internship. (3) On-the-job training that culminates classroom experiences of journalism and public relations students who exercise assigned duties in an off-campus organization or firm with appropriate compensation.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in JOURN 369.

579 Nonpaid Internship. (3) On-the-job training in which journalism or public relations students get practical experience in applying what they have learned in the classroom. Involves assigned duties in a communications organization without compensation.

Prerequisite: permission of the department chairperson.

595 Journalism Seminar. (1-6) Group and individual investigations and experience in journalistic media and techniques with special attention to current trends in American and international journalism and related fields.

Prerequisite: submission of a proposed study project and permission of the department chairperson.

A total of 6 hours of credit may be earned.

601 Studies in Journalism and Communication Theory. (3) The nature and purposes of graduate scholarly inquiry, major journalism traditions and literature, and communications theories and their applications to the study of journalism and mass communications.

606 Newspaper Management. (3) Graduate course in newspaper management designed for students who have little or no professional experience in the industry. Explores the basic operation of newspapers, newsroom dynamics, and the organizational, leadership, and decision-making processes critical to managing in an industry in a time of transition.

611 Seminar in Journalism and Communication Principles. (3) Students will enhance skills needed for success in graduate study in journalism; critical thinking, information gathering, analytical reading, writing, and multimedia and interpersonal skills. Examines issues surrounding the roles, significance, and influence of mass communication in society and culture. Identifies social, political, economic, technological, and cultural issues affecting journalism today.

612 Journalism Writing Seminar. (3) Examines forms of journalistic writing and research in the theory and practice of journalistic writing. Includes writing and critiquing news and news analysis stories, magazine and feature
stories, advertising copy, and public relations modes.

613 Seminar in Literary Journalism. (3)
Introduction to literary journalism. Intensive, critical study of the genre’s history, theories, topical issues, and techniques of authors of twentieth-century narrative nonfiction.

614 Writing Literary Journalism. (3)
An advanced writing workshop, emphasizing specialized journalistic research and narrative nonfiction techniques, including saturation reporting, exposition, description, characterization, and dramatization. Assignments range from moderate-length writing exercises to an extensive (5,000-7,500 words) original work of literary journalism.

Prerequisite: JOURN 613.

615 Investigative Reporting and Writing. (3)
Study of investigative reporting techniques, including computer-assisted reporting, data analysis, interviewing, and writing. Learn how to locate government and business records, find online databases, and locate sources for investigative reporting. Practice in advanced writing techniques.

623 Visual Storytelling. (3)
Explores journalistic information gathering and storytelling produced by traditional and interactive media technologies. Students will focus on visual presentation methods across a variety of media to present consumers with rich experiences. Emphasizes current research and technology as they apply to visual information presentation.

Prerequisite: JOURN 103 or permission of the department chairperson.

630 Business Reporting. (3)
Graduate-level reporting on the fields of business, economics, and finance. Students will learn to cultivate sources, cover business beats, and report on and write stories, including breaking news, trends, profiles, features, and specialized reporting on personal finance, technology, entrepreneurship, corporate communications, and workplace issues such as diversity and ethics.

657 Advertising Foundations and Strategies. (3)
A critical examination of the industry and how advertising works. Covers the theories and strategies that apply to the advertising process, including consumer behavior and communication models. Major economic, social, and ethical issues are reviewed.

670 Producing and Advising Yearbooks. (3)
Theories of staff organization, yearbook organization and content, illustrations, production techniques, typography, style, theme, and the role of the advisor to student staff.

671 Producing and Advising School Newspapers. (3)
The content and organization of school newspapers, production techniques, staff organization and training, and the role of the advisor. Other school publications and news bureaus considered as time permits.

673 Teaching Journalism in the Secondary Schools. (3)
Recent developments in secondary school journalism, teaching techniques, advising problems, and curriculum developments.

674 College Journalism. (3)
Development of college journalism curricula, teaching methodology, course relations to other disciplines, and effective use and production of student publications as communicative and instructional laboratory media. Special attention will be given to problems of the junior college, the nonaccredited and limited program college, and the major journalism school.

675 Journalism Teaching Internship. (3)
Designed to prepare and assist graduate students who are involved in instruction-related duties in journalism.

Prerequisite: submission of a proposal for a teaching internship and permission of the department chairperson.

676 Beginning Photojournalism for Advisors. (3)
An introduction to photography and darkroom techniques and their application to school publications. Composition, editing, and cropping. Laboratory experience ensures a working knowledge of black-and-white film development and printing. Students furnish
35mm or 120mm cameras and supplies. One-week summer workshop.

Prerequisite: permission of the department chairperson.

677 Journalistic Writing for School Publications. (3) An introduction to newspaper writing with emphasis on its application to school publications. Designed to help advisors improve their writing skills and develop teaching techniques. Instruction in news, feature, opinion, and sports stories and in interviewing. One-week summer workshop.

Prerequisite: permission of the department chairperson.

678 Scholastic Publication Design for Advisors. (3) This course is designed for secondary teachers seeking an understanding of design principles and how they are applied to the high school newspaper, yearbook, or magazine. Production techniques will be emphasized. Students will complete a research assignment. One-week summer workshop.

Prerequisite: permission of the department chairperson.

679 Advanced Photojournalism for Publication Advisors. (3) This course is designed for secondary teachers wishing to engage in advanced projects involving news photography, darkroom management, page design, editing, and curriculum design and their application to school publications. Students will study the photo story/essay and complete a research assignment. One-week summer workshop.

Prerequisite: JOURN 676.

680 Studies in Journalism and Communications Research Methods. (3) Survey of journalism and mass media research methods and strategies, including content analysis and other qualitative and quantitative research techniques. Emphasis on student preparation for graduate research options.

PUBLIC RELATIONS (PR)

605 Public Relations Management. (3) The organizational structures, management styles, leadership issues, and challenges commonly encountered in the management of public relations or advertising firms or public relations departments in corporations, non-profits, or government agencies.

620 Seminar in Public Relations Foundations. (3) Explores the theory and practice of public relations with an overview of the fundamentals including principles, writing skills, and strategic campaign development. Provides students with a basic foundation for professional public relations activities and advanced graduate level instruction.

660 Public Relations Theories and Applications. (3) Theories and principles applicable to the practice of public relations, the communications and management methodologies used, and the societal applications that can be made while maintaining harmony between human organizational structures and their social environment.

662 Public Relations Case Studies. (3) Study and critical analysis of how professionals handled public relations problems in a variety of circumstances, including crisis, employee communication, and media relations.

664 Public Relations Evaluation Techniques. (3) Simple and scientific evaluation techniques for a variety of public relations activities. Emphasizes survey research.

Prerequisite: permission of the department chairperson.

665 Public Relations Campaigns. (3) Detailed analysis of a variety of public relations campaigns. Funding, volunteerism, use of the mail, successful planning of large and small meetings.

Prerequisite: permission of the department chairperson.
MASTER OF ARTS IN TELECOMMUNICATIONS

Admission requirements

Students may only enter the MA in telecommunications program during fall semester of each academic year. Applicants must meet the admission requirements of the Graduate School and must have completed the Graduate Record Examination (GRE).

In addition, applicants must demonstrate proficiency in (1) written; (2) verbal; (3) visual communication; and (4) relevant computer skills. Proficiency will be demonstrated via submission of a portfolio upon application to the program. At minimum, this portfolio should contain: (1) a cover letter that introduces and explains the contents of the portfolio; (2) an original 1,500-word academic, creative, and/or professional writing sample; (3) a transcript indicating a grade of B or better in an undergraduate oral performance course (e.g., public speaking, broadcast performance, dramatic arts) and a syllabus or course description from that course; (4) an original project that emphasizes skill in visual communication (e.g., Web page design, graphic design, publication design, broadcast design, theatrical design, architectural design); and (5) a list of computer application programs with which the applicant is fluent (above basic e-mailing and word-processing applications). Applicants may include other items that are relevant to telecommunications.

Additional Graduate Requirements

In addition to successfully completing their course work and a thesis or creative project, students pursuing an MA in telecommunications must fulfill several other requirements: (1) participate in a public exhibition of their thesis or creative project; (2) participate in 10 collateral experiences (of their choice) designed to complement and extend their course work (e.g., training workshops in design and production skills, artist-in-residence events, guest speakers, field trips, video conference); and (3) receive approval of a digitally based, personal narrative that shares the story of their experiences in the telecommunications program.

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158
Other courses that meet the student needs may be substituted, assuming that the student meets the course prerequisites and is preapproved by the program coordinator. Courses from English, history, theatre, marketing, art, music technology, architecture, and the Teachers College may be particularly useful supplements to the study of telecommunications.

**TELECOMMUNICATIONS (TCOM)**

**530 Audio Production. (3)** Emphasizes techniques and skills needed for audio production. Typical experiences in radio broadcasting. A practical test is part of the final examination, and students are expected to maintain a record of their productions. In addition, graduate students will produce a program for air.

*Open only to approved graduate students.*

**601 Foundations of Digital Storytelling 1. (3)**

Presents the nature of graduate education, including purpose of scholarly activity and the scholarly environment. Explores the storytelling process from concept development to presentation; the history of storytelling; the societal impact and value of storytelling; and the influence of technology on the storytelling process.

*Prerequisite:* permission of the program coordinator.

**602 Foundations of Digital Storytelling 2. (3)**

Introduces story writing concepts and experiences. Students also select from a range of topics associated with the digital storytelling process, including nonlinear storytelling methods, law and ethics, audience analysis and adaptation, performance studies, interdisciplinary approaches to storytelling and development, animation, and gaming.

*Prerequisite:* permission of the program coordinator.

**610 Approaches to Creativity. (3)** Examines techniques for developing creative ideas. Students will imagine, innovate, and create experiential presentations and mediated works. Students are encouraged to be risk-takers and learn from the failure of their creative endeavors.

*Prerequisite:* permission of the program coordinator.

**630 Story Design and Development. (3)**

Examines various approaches to the story-creation process. Emphasizes the practice of storywriting for various genres. Students will participate in a community service project that involves the creation of digitally based stories.

*Prerequisite:* TCOM 601; permission of the program coordinator.

**632 Digital Production. (3)**

Techniques of acquisition and manipulation of digitized sights and sounds. Digital audio and video recording software and hardware are utilized to capture, edit, and finish creative productions. Proficiency in digital audio and video technologies is needed.

*Prerequisite:* permission of the program coordinator.

**634 Interactive Storytelling. (3)**

Writing nonlinear, interactive stories for entertainment, promotional, journalistic, and instructional applications. Authoring software will be utilized to bring ideas to fruition. Proficiency in digital audio and video technologies is needed.

*Prerequisite:* permission of the program coordinator.

**660 Intercultural Immersion. (3)**

Directed residential immersion in another culture for the purpose of investigating the story-telling forms and traditions of that culture. Students later present the story of their intercultural experience to others.

*Prerequisite:* permission of the program coordinator.
**669 Professional Experience. (1-3)** Enables students to gain supervised, practical experience in the field of digital storytelling by working with an approved firm or agency.

*Prerequisite:* permission of the program coordinator.

A total of 3 hours of credit may be earned.

**670 Special Projects. (1)** Enables students to pursue the ongoing development of storytelling projects. Emphasizes writing and producing digital stories. Projects will require a faculty advisor.

*Prerequisite:* TCOM 601; permission of the program coordinator.

A total of 3 hours of credit may be earned, but no more than 1 in any one semester or term.

**680 Seminar in Current Topics. (3-6)** Intensive study of selected topics from the literature or practice of digital storytelling. Topics will vary each semester. Content will be drawn from areas not dealt with in the regular curriculum.

*Prerequisite:* permission of the program coordinator.

A total of 6 hours of credit may be earned.

**690 Directed Study. (3-6)** Intensive investigation of a topic related to digital storytelling that is not already addressed by regularly offered courses.

*Prerequisite:* TCOM 601; permission of the program coordinator.

A total of 6 hours of credit may be earned.

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**COLLEGE OF FINE ARTS**

[Link to website](http://www.bsu.edu/cfa)

Arts and Communications Building 200, 765-285-5495

*Dean:* Robert A. Kvam

*Associate Dean:* Michael O’Hara

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**COLLEGE OF FINE ARTS (CFA)**

**598 Seminar in Museum Studies. (1-5)**

Interdisciplinary introduction to museums and museum collections through formal lectures and independent research on various facets of a planned permanent collection exhibition. Participants act as interns in museum curation, education, registration, and/or preparation.

*Prerequisite:* permission of the instructor.

A total of 9 hours of credit may be earned, but no more than 5 in any one semester or term.

**651 The Arts in Contemporary Society. (3)**

A study of three artists in each of the fields of fine art, music, and literature to explore the effect of the artist on contemporary society.
The graduate program in art is based on the department’s mission to educate students to develop significant ideas within the discipline of visual arts education and to master the tools and methods of inquiry for creating art. Creating art forms and teaching art are highly individualized activities that require an understanding of the four major activities related to art—perceiving, producing, knowing, and evaluating—that help students understand themselves and the world they live in. Through the visual arts students learn to share their feelings, beliefs, and values.

PROGRAM

Master of arts (MA) in art with emphasis in visual arts studio; master of fine arts (MFA), visual arts

The graduate program of study leading to a master of arts degree offers concentrations in the visual arts through studio/education seminars, art history, and advanced studio—ceramics, drawing, electronic art and animation, metals, painting, photography, printmaking, sculpture, and visual communication. Interdisciplinary programs of study are possible.

Students are expected to develop and refine studio skills, education skills, and academic scholarship to a level of professional excellence. The program enables the student to work closely with studio faculty in well-designed facilities, become an ambassador of the visual arts in school systems and communities, and enrich their lives with the traditions of the visual arts.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and must be admitted formally by the Department of Art. Applicants must have an undergraduate degree in art and grade-point averages (GPA) in art courses of at least 3.0 on a 4.0 scale and must pass review by the Department of Art graduate committee. Each applicant must submit to the Graduate School an application for admission and to the Department of Art:

• a letter expressing goals in pursuing the degree;
• a resume;
• transcripts for all college-level course work;

• a portfolio of artwork (submitted as 20 slides or in CD format);
• three letters of recommendation;
• other supportive materials such as research and publications.

Visual Arts Studio
Degree requirements

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MASTER OF FINE ARTS, VISUAL ARTS

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The MFA would allow students to earn a terminal degree in an area of studio emphasis at BSU, while still having the option of earning the more general MA. After completing 27 hours of MA course work, interested students could apply for permission to take an additional 27 hours of MFA course work and complete an MFA creative project for 6 credit hours. Completing the MFA would require a minimum six semesters.

**ART: CRAFTS (ACR)**

**511 Advanced Ceramics. (3-6)** A continued study in ceramics for advanced ceramics students.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

*Open only to accepted graduate students.*

**521 Advanced Metals. (3-6)** Advanced work in metals that assumes a proficiency in basic techniques. Student and instructor will work together to establish an individual direction, emphasizing experimentation along with investigation of contemporary and historical trends.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

*Open only to accepted graduate students.*

**531 Advanced Glass. (3-6)** Advanced graduate level study in studio glass.

*Prerequisite:* permission of the department chairperson.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

*Open only to accepted MA program students.*

**631 Glass Studio. (6-12)** Graduate supervised, time-intensive graduate level problems in glass defining aesthetic and technical directions for the professional artist. Bi-weekly meetings and exhibition of artwork required for final assessment.

*Prerequisite:* ACR 531 (6 total hours); permission of the department chairperson.

A total of 21 hours of credit may be earned, but no more than 12 in any one semester or term.

*Open only to accepted MFA program students.*

**ART: EDUCATION (AED)**

**604 Curriculum Methods in Art Education. (3)** Developing concepts for the implementation, evaluation, and change of the art education curriculum. Teaching innovations, functional methods, and criteria for theory, content, practice, and program development in public schools.

**608 Workshop in the Visual Arts. (3-6)** For classroom teachers: exploration of current concepts in basic arts education in a workshop setting. Explores contemporary techniques and theory in arts teaching, emphasizing the elementary school.

A total of 6 hours of credit may be earned.

**655 Teaching Art Awareness in Public Schools. (3)** An analysis of current thinking, approaches, and methodologies to foster art appreciation in elementary and secondary schools, emphasizing instructional strategies.

**ART: FINE ARTS (AFA)**

**501 Advanced Drawing. (3-6)** Advanced drawing, stressing research and experimentation and individual problem-solving in a variety of media with greater expectations of proficiency in each successive course.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

*Open only to accepted graduate students.*

**511 Advanced Painting. (3-6)** Advanced painting, stressing continued individual growth in technical proficiency and personal creative and conceptual progress with each successive course in a variety of media.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
Open only to accepted graduate students.

521 Advanced Sculpture. (3-6) Advanced sculptural study. Follows specific needs and encourages individual direction.
   A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
   Open only to accepted graduate students.

531 Advanced Printmaking. (3-6) Study in printmaking techniques. Emphasis on the ability to deal creatively and conceptually with the technical process.
   A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
   Open only to accepted graduate students.

581 Bookmaking. (3) Creative investigation of book structures (folded, glued, sewn) with an emphasis on integration of sequential imagery and type. A variety of media and approaches are presented including photo-etching and letterpress. Personal creativity is emphasized.
   A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

ART: HISTORY (AHS)

501 Special Topics in the History of Art. (3) Investigation of a particular topic, problem, or issue in art history, with content for any particular term to be announced.
   A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term. Topics may not be repeated for credit.

698 Seminar in Art History. (3) Applications of art historical concepts and skills for the studio artist and community arts advocate. 3 credit hours required.

ART (ART)

511 Advanced Animation. (3-6) Advanced graduate-level study within animation.
   A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
   Open only to accepted graduate students.

515 Independent Study in Visual Arts.

521 Advanced Video and Intermedia Art. (3-6) Advanced graduate-level study within video and intermedia art.
   A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
   Open only to accepted graduate students.

531 Advanced Photography. (3-6) Advanced study of photography or photo-related studies.
   A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.
   Open only to accepted graduate students.

600 Colloquium in the Visual Arts. (3) Examination and discussion of contemporary theoretical issues in the visual arts. A total of 3 hours required.

601 Visual Arts Seminar. (3) Seminar for group and individual investigation/discussion of a variety of visual art-related topics; studio practice, criticism, education, community outreach, grant writing, etc. Taught by department faculty and/or visiting artists, scholars. Exact content announced before each offering.
   A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
   Open only to art majors.

602 Creative Project Seminar. (3) Definition and identification of a specific artistic and aesthetic direction through intensive studio work. Development of creative project proposal, outlines of historical influences, and the creative project committee.
   Prerequisite: AHS 698; permission of the department chairperson.
   Open only to accepted MFA program students.

611 Animation Studio. (6-12) Graduate supervised, time intensive graduate level
problems in animation defining aesthetic and technical directions for the professional artist. Bi-weekly meetings and exhibition of artwork required for final assessment. 

Prerequisite: ART 511 (6 total hours).

A total of 21 hours of credit may be earned, but no more than 12 in any one semester or term. 

Open only to accepted MFA program students.

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SCHOOL OF MUSIC

www.bsu.edu/music
Hargreaves Music Building 203, 765-285-5400

PROGRAMS

Master of music (MM); master of arts (MA) in music; doctor of arts (DA) in music; and an artist diploma

ARTIST DIPLOMA

The artist diploma is a highly selective non-degree graduate program for the specialized training of the gifted and accomplished performer. The program focuses on the practical aspects of music performance: private instruction solo performance, participation in musical ensembles, chamber music, musicianship skills, and may include nonperformance supportive music courses.

Admission requirements

To be accepted into the artist’s diploma program, the applicant must have earned the bachelor’s degree from an accredited institution and must have an overall grade-point average (GPA) of 2.75 (or 3.0 in the last two years of study).

The successful applicant to the artist’s diploma program will present an audition demonstrating a high level of performance ability. All audition requirements will parallel the graduate-level audition requirements used in existing graduate degree programs. A live audition on the Ball State campus is required for unconditional acceptance into the program; however, a recent videotape or compact disc recording may be submitted for conditional acceptance into the program. A student admitted conditionally must perform a live audition before the end of the third week of the first semester of study in order to continue in the program. All diploma students must pass a jury or a recital hearing by the end of the second semester of study. All auditions will be evaluated by faculty from the discipline, the performance area coordinator, and two performance faculty from outside the discipline. The audition committee will be selected by the graduate coordinator and the performance area coordinator.

Degree requirements

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<tr>
<td>MUSPE</td>
<td>Applied Study (MUSPE 600-609, 610-619)</td>
<td>8-12</td>
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<tr>
<td>595</td>
<td>Career/Performance Seminar 595 (2 credit hours)</td>
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<tr>
<td>699</td>
<td>Independent Study in Music Performance 699 (2 credit hours)</td>
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Electives

Courses selected may include:
- additional applied study, ensemble participation, chamber music, special topics, conducting, diction and literature, pedagogy, improvisation, courses in music technology, courses from music theory or music history and musicology, etc.

A total of 24 credit hours may be earned.
Recital requirement

Two faculty-adjudicated solo recitals. For voice, the performance of a major opera role or a major performance with orchestra (40-50 minutes of singing) may be substituted for one recital, with permission of the voice faculty. The graduate coordinator and performance area coordinator will appoint a faculty jury to evaluate each performance.

Additional requirements

- Diploma students will be in residence for a minimum of two semesters (residence is defined as a minimum of 8 hours/semester [may include summer].)
- All requirements for the diploma must be met within a five-year period.
- Students wishing to take graduate-level courses in theory (MUSTH) or music history (MUHIS) must establish eligibility by passing the theory/history placement tests or successfully completing the review courses.
- No course with a grade below 2.0 can be counted toward the diploma. Diploma students must maintain an overall GPA of 3.0. Students falling below that average will be placed on academic probation and will have one semester in which to bring the GPA up to a 3.0.
- Undergraduate courses may be taken during the course of the diploma program, but will not count toward the required 24 hours of graduate credit.
- No transfer credits from other institutions are allowed.

MASTER OF MUSIC

The master of music (MM) degree requires that at least one-third of the credits be completed in the major field of study. Majors offered are music performance, conducting, woodwinds, piano chamber music/accompanying, piano performance and pedagogy, music history and musicology, music education, music theory, and music composition. The program offers in-depth study for students highly gifted in some facet of music performance, music composition, or research. It is designed for students certified to teach as well as for those who do not have and do not seek such certification. A faculty-approved creative project, recital, or thesis is required of all students. All master of music students are required to pass a comprehensive examination that is administered near the end of the degree program.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and must also be approved by School of Music faculty. Applicants are invited to present on-campus auditions or, when a personal audition is not possible, to send audition tapes. (Conducting applicants must audition in person.) Applicants for academic programs are invited to send research papers, class projects, and compositions, as appropriate. Before enrolling in required course work in music theory and history, applicants must achieve acceptable scores on the graduate placement tests. Students not achieving acceptable scores must complete a review course in theory and/or history.

Degree requirements

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<td>Major area of study in music including credit for a thesis, research paper, or creative project</td>
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<td>Minor, electives in music, and electives</td>
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30-32 hrs

MASTER OF ARTS IN MUSIC

The requirements for the master of arts (MA) in music include a core of studies in music performance, music history and musicology, music theory, and music education. The degree is designed to meet the needs of students interested in securing broad coverage of the...
discipline at the graduate level. The elective hours may be used for additional courses in music, for professionalization courses (for certified teachers), or for a minor outside the School of Music. The degree includes a required research component that may take the form of a sequence of research methodology courses, a research project or thesis, or a creative project recital. All master of arts in music students are required to pass a comprehensive examination that is administered near the end of the degree program.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and ordinarily will have majored or minored in music at the undergraduate level. Before enrolling in required course work in music theory and history, applicants must achieve acceptable scores on the graduate placement tests. Students not achieving acceptable scores must complete a review course in theory and/or history.

Degree requirements

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The School of Music core includes foundational course work in music education, music theory, and music history, such as studies in the history and philosophy of music education, principles of music theory, and the history of American music.
The area of primary emphasis may be in music performance, conducting, music theory and composition, or music education. The area of secondary emphasis may be in music performance conducting, music theory and composition, music history and musicology, music education, or outside the School of Music in a subject that relates to the primary field of study.

The area of college teaching and learning includes a college teaching internship and an externship, and courses in such subjects as the role of music in college education, teaching music for the listener, computer applications in music, cognition and learning theory, and foundations of higher education. The dissertation may make an original contribution to knowledge in the primary field, produce innovative teaching materials or methods, or focus on a problem identifiable with college teaching.

**MUSIC HISTORY AND MUSICOLOGY (MUHIS)**

501 Piano Literature. (3) Standard literature for the piano from Bach through the twentieth century.

535 Music in the Baroque Era. (3) The vocal and instrumental music of western Europe during the seventeenth and early eighteenth centuries, including figured bass, opera, oratorio, and cantata, and the development of such instrumental genres as concerto, sonata, and suite.

Not open to students who have credit in MUHIS 435.

536 Music in the Preclassical and Classical Eras. (3) Vocal and instrumental music of the eighteenth century, including the various styles that marked the transition from baroque to classical music, the rise of comic opera, and the development of the symphony, concerto, sonata, chamber music, and keyboard literature.

Not open to students who have credit in MUHIS 436.

537 Music in the Romantic Era. (3) Vocal and instrumental music in Western civilization in the nineteenth century, emphasizing Lieder and choral, operatic, piano, chamber, and orchestral literature. Important composers and works from the various time periods: early, middle, late, and post-Romanticism.

Not open to students who have credit in MUHIS 437.

538 Opera History from 1780 to 1980. (3) Types of opera and changing styles from the mid-eighteenth century to the present. Considers in detail works from the standard repertoire and encourages students to explore less familiar operas.

Not open to students who have credit in MUHIS 438.

539 Jazz History 1. (2) Evolution of jazz music in the United States. Stylistic innovations and contributions of selected groups and individuals.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in MUHIS 439.

540 Jazz History 2. (2) Continuation of MUHIS 539, covering the 1950s through the present. Progressive 1950s, the rock-jazz fusions of the 1960s, 1970s, and 1980s–today’s trends.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in MUHIS 440.

592 Special Topics in Musicology. (1-3) Musicological topics and issues of special interest to students and instructor. Permits the study of topics not formally treated in other courses.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

593 Workshop in Music History and Musicology. (1-3) A one- or two-week workshop on special topics in music history and musicology.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

596 History of Organ Literature and Design. (2) The organ and its music from the
Renaissance. Emphasizes baroque, Romantic, and contemporary instruments and literature. Field trips to pipe organ installations.

Not open to students who have credit in MUHIS 496.

598 Choral Music and Hymnody of the Church. (3) Hymns, anthems, motets, cantatas, and oratorios from the fifteenth century to the present; their musical, theological, and liturgical contexts and contemporary use.

Not open to students who have credit in MUHIS 498.

599 Collegium Musicum. (1-4) The study, realization, and performance of medieval, Renaissance, and baroque music.
A total of 4 hours of credit may be earned.

600 Methodology and Bibliography in Musicology. (3) Bibliographical materials and research methods in musicology.

601 Graduate History Review. (3) A concise review of music history from the medieval period through the twentieth century. Required for those who did not pass the Graduate History Placement Test. Credits may not be used to meet graduate degree requirements.

602 Seminar in Teaching Introduction to Music. (3) Content, organization, textbooks, materials, tests, and methods of teaching courses dealing with the introduction to music for nonmajors.

603 Chamber Music Literature. (3) Chamber music from its beginnings through the mid-twentieth century, with an analysis of examples representative of the periods.

605 Vocal Literature. (3) A stylistic and analytical study of vocal literature, both solo and choral, chosen from the eighteenth, nineteenth, and twentieth centuries.

611 History of American Music. (3) Our American musical heritage: national origins, schools of composition, contributing influences, important trends, and the works of composers whose diversified styles have shaped art music in this country.

631 Music in the Middle Ages. (3) Studies in Gregorian chant, the rise of polyphony, the various schools of secular monophony, and the evolving styles of the fourteenth century in France, Italy, and England.

632 Music in the Renaissance. (3) Studies in the polyphony of the fifteenth and sixteenth centuries with emphases on the mass, motet, chanson, and madrigal by such composers as Dufay, Ockeghem, Josquin, Willaert, Palestrina, and Byrd.

633 Music in the Twentieth Century. (3) Music from the works of Debussy and Stravinsky to recent composers. Music studied will be drawn from the standard repertoire of the twentieth century.

680 Symphonic Literature. (3) Orchestral music from its origins in the seventeenth century through the twentieth century, with an analysis of examples representative of the periods.

686 Ethnomusicology and World Musics. (3) Introduction to the musics of non-Western cultures and ethnic music of Western cultures and a study of research methods.

687 Early Keyboard Performance Practice. (2) Keyboard performance practices from the Renaissance through the baroque. The instruments, tempi, rhythmic conventions, articulations and phrasing, fingering, ornamentation, temperaments, and tunings.
Prerequisite: previous keyboard study.

691 Independent Study in Music History. (1-6) Guided reading, intensive study, and/or research in an area of music history of particular interest that is not covered by regular offerings.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

692 Special Topics in Musicology. (1-6) Musicological topics and issues of special interest to students and instructor. Permits the
study of topics not formally treated in other courses.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

695 History of Musical Instruments. (3)
History of musical instruments and their development in Western and other civilizations. Emphasizes construction, tuning, and use.

791 Independent Study in Music History. (1-6) Guided reading and intensive study and/or research in an area of music history of particular interest not covered by regular offerings.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

SCHOOL OF MUSIC (MUSCH)
† There is no limit to the number of credits students may earn in this course.

† 540 Large Instrumental Ensemble. (1) A major performing ensemble, normally rehearsing five hours a week. Included in this category are the wind ensemble, the symphony band, the marching show band, the symphony orchestra, and jazz ensemble I.

† 550 Large Vocal Ensemble. (1) A major performing ensemble normally rehearsing five hours a week.

593 Workshop in Music. (1-3) A one- or two-week workshop on specialized, interdisciplinary topics in music.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

611 Internship in Professional Experience. (1-3) Professional-related musical experience in performing (including conducting) or teaching under the supervision of a master musician or teacher, on or off campus. A summary log or journal is required; remuneration is allowed.

Prerequisite: permission of the graduate coordinator.

A total of 3 hours of credit may be earned.

692 Special Topics in Music. (1-6) Explores problems of special interest to students and the instructor. Permits study of topics not formally treated in other courses.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

699X Experimental/Developmental Topics. (3-6) Topics relevant to the discipline. Course titles will be announced before each semester.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

710 Internship in College Music Teaching. (1-6) Guided teaching of Ball State undergraduate students. An analysis of objectives, teaching approaches, and evaluative techniques.

Open only to doctor of arts students with majors in music.

Three hours of credit must be earned; a total of 6 hours of credit may be earned with committee approval.

711 Externship in College Music Teaching. (3-6) Guided teaching of undergraduates at a campus of a different size from Ball State. An analysis of objectives, teaching approaches, and evaluative techniques.

A total of 6 hours of credit may be earned with committee approval.

Open only to doctor of arts students with majors in music.

MUSIC EDUCATION (MUSED)

558 Methods for Organ Teaching. (1)
Methods for teaching the pipe organ. An application of these methods to recital literature and the music of the church.

Prerequisite: previous organ study at the university level.

Not open to students who have credit in MUSED 458.

565 Jazz Ensemble Techniques. (2) Introduces the style characteristics of jazz performance. Includes preparation in the administration and teaching of jazz ensembles in school settings.

Not open to students who have credit in MUSED 465.
566 Class Guitar. (2) Development of fundamental performance skills on the guitar for classroom and social use. Focuses on choral accompaniment styles and application to folk, popular, and children’s song literature.

578 Teaching Multicultural Music. (2) Exploration of music from various ethnic groups and cultures. Emphasizes techniques and materials to present music from various cultures to elementary and secondary students. Includes teaching projects and integration with traditional music curricula.

592 Special Topics in Music Education. (1-6) Issues of importance in music education. Permits the study of topics not formally treated in other courses.

593 Workshop in Music Education. (1-6) A one- or two-week workshop on special topics in music education.

600 History and Philosophy of Music Education. (3) Study of some of the major philosophical bases of music education from a historical perspective. Focuses on the investigation of pedagogical procedures inherent in those philosophies and on a comparison of possible results to be expected through their implementation.

610 Music Teaching and Learning. (3) Learning theories, their application to the music classroom, and curricula in music education. Students will complete projects in their areas of teaching specialization.

620 Assessment Techniques in Music Education. (3) Assessment techniques for music aptitude, achievement, and preference. Emphasizes authentic assessment techniques, developing teacher-made tests, and available standardized music tests.

640 Advanced Studies in General Music. (3) Strategies and techniques for the development and maintenance of quality general music education programs at the elementary and/or secondary levels. Topics may include: approaches and methodologies, national and state standards, technology, assessment, listening strategies, and music creation.

650 Advanced Studies in Choral Music Education. (3) Strategies and techniques for the development and maintenance of quality choral music education programs. Topics may include: selecting and adapting quality literature, rehearsal structures and strategies, maximizing teaching effectiveness and student motivation, developing music literacy skills, building vocal technique, and assessment.

651 Band Administration. (3) The organizational problems of the band director; musical materials; library management; budgeting; awards and incentive systems; selection, care, and handling of uniforms and equipment; instrumental balance and seating plans; operation of festivals and contests.

660 Advanced Studies in Instrumental Music Education. (3) Strategies and techniques for the development and maintenance of quality instrumental music education programs. Topics may include: selecting materials, pedagogy, rehearsal techniques, instrumental music research, technology in instrumental music education, assessment, and developing and implementing instrumental music curricula.

668 Research in Music Education. (3) Analysis of paradigms and methods in music education research, sources of research information, and challenges facing contemporary music education researchers and users of research. A major research study/paper is required.

669 Advanced Research in Music Education. (3) Advanced studies in the methods and materials of music education research. Students will conduct a major research project under the guidance of the instructor.

Prerequisite: MUSED 668 or permission of the instructor.
673 Band Rehearsal Laboratory. (3) Concentrated study of the requirements for success in conducting wind instrument ensembles: lecture, discussion, and ensemble participation. Band literature and ensemble drill materials reviewed or played by the laboratory band.

674 Orchestra Rehearsal Laboratory. (3) The elements that contribute to success in conducting orchestra ensembles: lecture, discussion, and performance in selected orchestral groups. Materials suited to various phases of orchestral training, as well as to program planning, are reviewed.

675 Choral Rehearsal Laboratory. (3) The elements that contribute to success in conducting choral ensembles—exploration and analysis of materials and related teaching methodology; lecture, discussion, and laboratory experiences. Materials suited to various phases of choral training will be reviewed and sung.

681 Psychology of Music. (3) Study of the psychological and physical aspects of human musical perception, including the nature of musicality. Attention is given to research, possible applications to the teaching and learning of music, and processes in the development of musical preference.

691 Independent Study in Music Education. (1-3) For superior students: intensive study and research in a particular part of music education.

**Prerequisite:** permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

791 Independent Study in Music Education. (1-3) Intensive study and research in a particular part of music education.

**Prerequisite:** permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

MUSIC PERFORMANCE (MUSPE)

* An applied music course requiring special fees
‡ There is no limit to the number of credits students may earn in this course.

525 Elementary Piano Pedagogy and Literature. (3) Methods and materials of elementary-level piano teaching, studio management, observation, and practice teaching of elementary-level students.

Not open to students who have credit in MUSPE 425.

526 Intermediate Piano Pedagogy and Literature. (3) Methods and materials of intermediate-level piano teaching, observation, and practice teaching of undergraduate piano minors or other intermediate-level students.

Not open to students who have credit in MUSPE 426.


Not open to students who have credit in MUSPE 429.

548 Opera Theatre. (1-4) Study and/or performance of operatic literature. Combines all art forms related to the lyric theatre, including production techniques and performance activities.

**Prerequisite:** audition and permission of the director of opera.

A total of 12 hours of credit may be earned, but no more than 4 in any one semester or term.

577 Continuo Playing and Keyboard Improvisation. (1-2) Development of facility in reading from figured basses or improvisation in the church service, free harmonization of hymns.
A total of 2 hours of credit may be earned.

592 Special Topics in Applied Music. (0)
Individual applied instruction (according to proficiency) for the study of music of any period or style.

Prerequisite: permission of the graduate coordinator.

593 Workshop in Music Performance.
(1-3) A one- or two-week workshop on special topics in music performance.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

595 Career/Performance Seminar. (2)
Professionalism, preparing resumes, preparing for auditions and competitions, setting up camps and conferences, the recording industry, securing grants, community music schools, the private studio, managers and agents, performance anxiety, and more.

Prerequisite: permission of the department chairperson.
A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

598 Diction for Singers. (2)
Study of effective pronunciation of English, French, German, and Italian with emphasis on techniques in producing vowel sounds and consonant articulation appropriate to the work performed.
A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

599 Advanced Vocal Diction. (2)
Advanced study of diction in major western languages as it pertains to singing and applications in performance of music literature for singers. Includes a survey of diction reference materials.

Prerequisite: MUSPE 598 or permission of the instructor.
Not open to students who have credit in MUSPE 440.

*‡ 600 Major Study (Woodwinds). (1)
One private half-hour lesson weekly in flute, oboe, clarinet, bassoon, or saxophone. For master’s students approved for major study.

*‡ 601 Major Study (Brass). (1)
One private half-hour lesson weekly in trumpet, French horn, trombone, euphonium, or tuba. For master’s students approved for major study.

*‡ 602 Major Study (Percussion). (1)
One private half-hour lesson weekly. For master’s students approved for major study.

*‡ 603 Major Study (Strings). (1)
One private half-hour lesson weekly in violin, viola, cello, double bass, or guitar. For master’s students approved for major study.

*‡ 604 Major Study (Harp). (1)
One private half-hour lesson weekly. For master’s students approved for major study.

*‡ 605 Major Study (Piano). (1)
One private half-hour lesson weekly. For master’s students approved for major study.

*‡ 607 Major Study (Organ/Harpsichord). (1)
One private half-hour lesson weekly. For master’s students approved for major study.

*‡ 608 Major Study (Voice). (1)
One private half-hour lesson weekly. For master’s students approved for major study.

*‡ 609 Major Study (Guitar). (1)
One private half-hour lesson weekly in the classical guitar. For master’s students approved for major study.

*‡ 610 Major Study (Woodwinds). (4)
One private one-hour or two half-hour lessons weekly for students majoring in flute, oboe, clarinet, bassoon, or saxophone.
Open only to master’s students approved for major study who are pursuing the graduate creative project.

*‡ 611 Major Study (Brass). (4)
One private one-hour lesson or two private half-hour lessons weekly for students majoring in trumpet, French horn, trombone, euphonium, or tuba.
Open only to master’s students approved for major study who are pursuing graduate creative projects.

*‡ 612 Major Study (Percussion). (4)
One private one-hour lesson or two private half-hour
lessons weekly for students majoring in percussion.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**613 Major Study (Strings). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in violin, viola, cello, bass, or guitar.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**614 Major Study (Harp). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in harp.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**615 Major Study (Piano). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in piano.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**617 Major Study (Organ/Harpsichord). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in organ or harpsichord.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**618 Major Study (Voice). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in voice.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**619 Major Study (Guitar). (4)** One private one-hour lesson or two half-hour lessons weekly for students majoring in classical guitar.

Open only to master’s students approved for major study who are pursuing the graduate creative project.

**620 Minor Study (Woodwinds). (1)** One private half-hour lesson weekly in a woodwind instrument.

Open to all graduate students.

**621 Minor Study (Brass). (1)** One private half-hour lesson weekly in a brass instrument.

Open to all graduate students.

**622 Minor Study (Percussion). (1)** One private half-hour lesson weekly in a percussion instrument.

Open to all graduate students.

**623 Minor Study (Strings). (1)** One private half-hour lesson weekly in a string instrument.

Open to all graduate students.

**624 Minor Study (Harp). (1)** One private half-hour lesson weekly in harp.

Open to all graduate students.

**625 Minor Study (Piano). (1)** One private half-hour lesson weekly on the piano.

Open to all graduate students.

**626 Piano for the Conductor. (1-4)** Development of the facility to transpose and condense full score at the keyboard. Does not require advanced piano technique. To be used as a tool for better understanding the total musical and compositional process and acquiring an aural comprehension of the score.

A total of 4 hours of credit may be earned.

**627 Minor Study (Organ/Harpsichord). (1)** One private half-hour lesson weekly on the organ or harpsichord.

Open to all graduate students.

**628 Minor Study (Voice). (1)** One private half-hour lesson weekly in voice.

Open to all graduate students.

**629 Minor Study (Guitar). (1)** One private half-hour lesson weekly on the guitar.

Open to all graduate students.

**637 Church Music Performance Practice. (1)** Performance projects of interest to organists and church musicians. Reading of anthems, motets,
oratorio movements; music for organ and instruments; music for graded church choirs; conducting from the keyboard. Material varies each semester.

643 Chamber Music. (1–4) Advanced development in the art of chamber music performance. Emphasizes the study of a variety of types of literature of musical worth in program building. Refinement of ensemble skills and individual techniques.

Prerequisite: MUSPE 433 or permission of the coordinator of graduate programs.

A total of 4 hours of credit may be earned.

690 Advanced Conducting. (4) Baton technique, advanced study of vocal and instrumental scores, repertory development, and rehearsal techniques.

A total of 12 hours of credit may be earned, but no more than 4 in any one semester or term.

* 691 Lessons in Advanced Conducting. (1-2) One private half-hour lesson weekly for conducting students.

A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

692 Special Topics in Music Performance. (1-6) Explores problems of special interest to students and the instructor. Permits study of topics not formally treated in other courses.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

699 Independent Study in Music Performance. (1-2) Opportunity to study specific needs or interests not covered by the regular course offerings in applied studies in music.

Prerequisite: permission of the associate director of applied studies in music.

A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

*‡ 700 Major Study (Woodwinds). (1) One private half-hour lesson weekly in a woodwind instrument. For doctoral students approved for major study.

*‡ 701 Major Study (Brass). (1) One private half-hour lesson weekly in a brass instrument. For doctoral students approved for major study.

*‡ 702 Major Study (Percussion). (1) One private half-hour lesson weekly in a percussion instrument. For doctoral students approved for major study.

*‡ 703 Major Study (Strings). (1) One private half-hour lesson weekly in a string instrument. For doctoral students approved for major study.

*‡ 704 Major Study (Harp). (1) One private half-hour lesson weekly in harp. For doctoral students approved for major study.

*‡ 705 Major Study (Piano). (1) One private half-hour lesson weekly on the piano. For doctoral students approved for major study.

*‡ 707 Major Study (Organ/ Harpsichord). (1) One private half-hour lesson weekly on the organ or harpsichord. For doctoral students approved for major study.

*‡ 708 Major Study (Voice). (1) One private half-hour lesson weekly in voice. For doctoral students approved for major study.

*‡ 709 Major Study (Guitar). (1) One private half-hour lesson weekly on the guitar. For doctoral students approved for major study.

*‡ 710 Major Study (Woodwinds). (4) One private one-hour or two half-hour lessons weekly in a woodwind instrument. For doctoral students with a primary area in performance.

*‡ 711 Major Study (Brass). (4) One private one-hour or two half-hour lessons weekly in a brass instrument. For doctoral students with a primary area in performance.

*‡ 712 Major Study (Percussion). (4) One private one-hour or two half-hour lessons weekly in a percussion instrument. For doctoral students with a primary area in performance.

*‡ 713 Major Study (Strings). (4) One private one-hour or two half-hour lessons weekly in a
string instrument. For doctoral students with a primary area in performance.

*‡ 714 Major Study (Harp). (4) One private one-hour or two half-hour lessons weekly in harp. For doctoral students with a primary area in performance.

*‡ 715 Major Study (Piano). (4) One private one-hour or two half-hour lessons weekly on the piano. For doctoral students with a primary area in performance.

*‡ 717 Major Study (Organ/Harpsichord). (4) One private one-hour or two half-hour lessons weekly on the organ or harpsichord. For doctoral students with a primary area in performance.

*‡ 718 Major Study (Voice). (4) One private one-hour or two half-hour lessons weekly in voice. For doctoral students with a primary area in performance.

*‡ 719 Major Study (Guitar). (4) One private one-hour or two half-hour lessons weekly on the guitar. For doctoral students with a primary area in performance.

743 Chamber Music. (1-4) Advanced development in the art of chamber music performance. Study of a variety of types of literature with emphasis on mature works. Refinement of ensemble skills and individual techniques.

A total of 4 hours of credit may be earned.

790 Advanced Conducting. (4) Baton technique, advanced study of vocal and instrumental scores, repertory development, and rehearsal techniques.

A total of 12 hours of credit may be earned, but no more than 4 in any one semester or term.

* 791 Lessons in Advanced Conducting. (1-4) One private half-hour lesson weekly for conducting students.

A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

799 Independent Study in Music Performance. (1-2) Opportunity to study specific needs or interests not covered by the regular course offerings in applied studies in music.

Prerequisite: permission of the associate director of applied studies in music.

A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

MUSIC THEORY AND COMPOSITION (MUSTH)

510 Choral Arranging. (2) Scoring for choir and choral ensembles. Gives particular attention to voicing, soloistic treatment of voices, texts, and other elements of traditional and contemporary scoring.

Not open to students who have credit in MUSTH 410.


Not open to students who have credit in MUSTH 411.

513 Band Arranging. (2) Scoring for symphonic band and wind ensemble. Gives particular attention to voicing, sectional and cross-sectional doubling, soloistic treatment of instruments, and other elements of contemporary treatment in scoring.

Not open to students who have credit in MUSTH 413.

514 Commercial Arranging. (2) Arranging concepts in commercial music. Writing in commercial idioms. The composer-arranger in the recording studio environment. Students will be assigned individual projects requiring laboratory participation.

Not open to students who have credit in MUSTH 414.

520 Sixteenth-Century Counterpoint. (3) Exercises in contrapuntal writing designed to develop sensitivity to sixteenth-century polyphonic practice.
Not open to students who have credit in MUSTH 420.

527 Introduction to Computer Applications in Music. (3) Computer systems and languages for musical analysis, composition, and sound synthesis. A historical perspective of applications for these purposes. Programming procedures. Individual projects in students’ special interest areas.

593 Workshop in Music Theory and Composition. (1-3) A one- or two-week workshop on special topics in music theory and composition.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

601 Graduate Theory Review. (3) Concise and thorough presentation of basic theoretical principles as taught in undergraduate courses. Required for those who did not pass the Graduate Theory Placement Test. Credits may not be used to meet graduate degree requirements.

612 Compositional Practices of the Seventeenth and Eighteenth Centuries. (3) General trends with focus (to be announced) on one or more composers, major works, or special developments of the period.

616 Theory of Nineteenth-Century Music. (3) Stylistic devices of selected composers of the nineteenth century.

617 Theory of Twentieth- and Twenty-First Century Music. (3) Vocabulary, devices, tonal organization, notation, and other elements that characterize the compositional practices of music of the twentieth- and twenty-first centuries.

621 Analytical Technique. (3) Identification and analysis of significant compositional elements as determined by the musical context. Special attention given to musical practices before and after the period of tertian harmony.
Prerequisite: passing grade on the Graduate Theory Placement Test or MUSTH 601.

623 Twentieth- and Twenty-First Century Counterpoint. (2) Exercises in contrapuntal writing designed to develop sensitivity to significant principles and procedures of music of the twentieth- and twenty-first centuries.

625 Electronic Music Studio 1. (2) Fundamentals of the physical and perceptual dimensions of sound as a basis for the electronic synthesis and analysis of musical sounds. Studio laboratory time required.

626 Electronic Music Studio 2. (2-6) Individualized approach to the application of electronic sound synthesis compositionally or in educational research. Studio laboratory time required.
Prerequisite: MUSTH 625.
A total of 6 hours of credit may be earned.

628 Composition. (1-4) Musical composition suited to the needs of graduate students whose major professional interests lie outside the field of composition; students are free to work in the shorter forms and in less-advanced idioms.
A total of 4 hours of credit may be earned.

629 Composition. (3-9) Experience in writing for any size instrumental or vocal ensemble with emphasis on the cultivation of a personal style within the framework of current practice. Encourages students to examine and cultivate facility in the use of serialism and electronic techniques.
A total of 9 hours of credit may be earned.

635 Arranging Workshop. (1-4) Individualized, project-oriented, advanced skill development in arranging. Scoring of commercials, show components, marching band shows, and background music for film, TV, radio, and media productions.
Prerequisite: permission of the instructor.
A total of 4 hours of credit may be earned.

691 Independent Study in Music Theory. (1-3) Independent study in any branch of music theory or pedagogical practice by means of readings, analysis, research, speculative writing, or survey.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

692 Special Topics in Music Theory and Composition. (1-3) Explores problems of special interest to students and the instructor. Permits study of topics not formally treated in other courses.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

722 Seminar in the Principles of Music Theory. (3) Discursive study of theoretical principles from a historical and pedagogical point of view. Includes readings, research, writing, contemporary materials and their applications in program organization, implementation, and administration. 

Prerequisite: MUSTH 621 or its equivalent or permission of the department chairperson.

729 Composition. (3) Continuation of MUSTH 629 with emphasis on personal style development.

A total of 12 hours of credit may be earned, but no more than 3 in any one semester or term.

791 Independent Study in Music Theory. (1-3) Independent study in any branch of music theory or pedagogical practice by means of readings, analysis, research, speculative writing, or survey.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

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THEATRE AND DANCE

www.bsu.edu/theatre
Arts and Communications Building 306, 765-285-8740

PERFORMANCE STUDIES (PS)

532 Oral Interpretation of Prose Fiction. (3) Study of the novel through the medium of solo performance.

534 Oral Interpretation of Poetry. (3) The study of poetry through the medium of oral performance.

535 Oral Interpretation of Drama. (3) The study of dramatic literature through the medium of oral performance.

Not open to students who have credit in THEAT 435.

536 Studies in Oral Interpretation. (2) Students with an interest in oral interpretation pursue a particular subject of study in depth.

A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term.

THEATRE (THEAT)


517 History of Theatre 1. (3) Study of the Western theatre from its origins through the Renaissance, with emphasis on theatre architecture, production elements, theory, and representative dramatic literature.

Not open to students who have credit in THEAT 317.

518 History of Theatre 2. (3) Study of Western theatre from the Renaissance to the foundations of modern theatre in the late nineteenth century,
with emphasis on theatre architecture, production elements, theory, and representative dramatic literature.

*Not open to* students who have credit in THEAT 318.

**519 Modern Theatre.** (3) Study of major movements in modern Western theatre since 1875, with emphasis on theoretical documents, production elements, and representative dramatic literature.

*Not open to* students who have credit in THEAT 319.

**520 Scene Design.** (3) Advanced training and experience in the problems of set design and lighting for theatrical productions in many forms and styles. Some elements of television design will be covered.

*Not open to* students who have credit in THEAT 420.

**523 Theatre Costume Design.** (3) Practice in the research, design, and building techniques involved in the preparation of period costumes for use in theatre productions. Special consideration is given to the costume problems facing the elementary or secondary school teacher involved in drama.

*Not open to* students who have credit in THEAT 423.

**526 Stage Lighting Design.** (3) Training and experience in the problems of stage lighting design for the proscenium and nonproscenium stage. Practical laboratory work in stage lighting of university productions.

*Prerequisite:* THEAT 326 or its equivalent.

*Not open to* students who have credit in THEAT 426.

**529 Principles of Stage Makeup.** (3) An investigation of the principles, techniques, and materials of stage makeup and practical experience in their application.

*Not open to* students who have credit in THEAT 229.

**533 Styles of Acting.** (3) Styles of acting appropriate to major types of drama from antiquity to the present.

*Prerequisite:* 6 hours of acting or the equivalent in theatre production.

*Not open to* students who have credit in THEAT 433.

**551 Directing 2.** (3) Further investigation of the work of the director with special reference to directing the various styles, modes, and periods of theatre.

*Prerequisite:* THEAT 250 or its equivalent.

*Not open to* students who have credit in THEAT 350.

**552 Directing for the Musical Theatre.** (3) The selection, organization, and direction of musical theatre productions. For practical laboratory work, the student may elect to concentrate on the production problems of either a specific musical comedy or an opera.

**570 Methods and Materials in School Play Production.** (3) For prospective and actual directors of secondary school plays. Choice of plays, community values, casting, secondary-school stages, advanced makeup, lighting, and stagecraft.

**576 Creative Drama.** (3) Principles of developing original dramatizations through improvisational techniques. Students are expected to observe and work with children as well as with college adults.

**580 Summer Theatre Workshop.** (2-4) Participation in the Summer Festival Theatre.

*Prerequisite:* permission of the department chairperson.

A total of 4 hours of credit may be earned.

**591 Theatre Management.** (3) Study and practice in box office procedures, house management, publicity, and promotions as related to college, community, and professional theatres.

*Not open to* students who have credit in THEAT 491.

**601 Introduction to Research in Theatre.** (3) The research methods available to theatre scholars.
625 Studies in Technical Theatre. (2-4) Technical problems of theatre production. Students must arrange to meet with the costume lab, the scenery lab, or the lighting lab. 
   Prerequisite: 6 hours of technical theatre or the equivalent.
   A total of 4 hours of credit may be earned.

640 Theory and Criticism of Drama. (3) The nature, function, and significance of the drama as examined by major and minor critics and theorists of the past and present.

650 Directing Theory. (3) Past and present theories of directing drama. Secondary emphasis on practice of theories in directing stage, radio, and classroom dramatics.

690 Seminar: Theatre History. (2-6) Selected periods of theatre history, with emphasis on research and reporting in the specified areas.
   Prerequisite: THEAT 517, 518, 519 or the equivalent.
   A total of 6 hours of credit may be earned.

696 Directed Study in Theatre. (1) Individual and directed study of research or creative projects in design, playwriting, acting, or directing, meeting the approval of the theatre staff.
   A total of 4 hours of credit may be earned, but no more than 1 in any one semester or term.

COLLEGE OF SCIENCES AND HUMANITIES

www.bsu.edu/sh
North Quadrangle Building 112, 765-285-1042
Dean of the College: Michael A. Maggiotto
Associate Deans: Susan M. Johnson, Jeffry Grigsby, Kecia McBride

INTERDEPARTMENTAL PROGRAMS

SCIENCE

www.bsu.edu/physics

<table>
<thead>
<tr>
<th>MASTER OF ARTS IN SCIENCE EDUCATION</th>
<th>SCI 699 Res Mth Ed 3</th>
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<tbody>
<tr>
<td>PREFIX NO SHORT TITLE CR HRS</td>
<td>RES 697 Research Ppr (1-3) or</td>
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<td>Approved science education courses</td>
<td>CRPRJ 698 Creat Proj (3 or 6) 3</td>
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<tr>
<td>Common core, 12 hours</td>
<td>Complete one option</td>
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Option 1: High school, 18 hours
SCI 690 Wkshp Sci Ed 0-9 and/or
approved course work in one or
more of the following content areas:
biology, chemistry, earth/space
science (geology and/or astronomy),
environmental science, or physics 9-18

18 hrs

Option 2: Elementary/middle
school, 18 hours
SCI 690 Wkshp Sci Ed 0-9
and/or
approved course work in at least
three of the following content areas:
biology, chemistry, earth/space
science (geology and/or astronomy),
environmental science, or physics 9-18

18 hrs

30 hrs

The student will conduct science education
research and write a research paper (RES 697)
or do a creative project (CRPRJ 698) on a
science education topic. The research paper or
creative project earns a total of three hours
credit.

DOCTORAL PROGRAMS

DOCTOR OF EDUCATION (EdD) IN
SCIENCE EDUCATION

This degree prepares graduates to assume
positions as science education specialists in a
variety of settings. Option 1 is for individuals
who will work at the university level as K-12
science teacher preparation experts. Option 2 is
for individuals who will work as science content
faculty in 2 or 4-year colleges and universities
where high priority is placed on teaching. The
major consists of course work in science
content, science education, and research
methodologies. A dissertation is written in either
science or science education in the student’s
major science field. A teaching internship, a
required part of the program for both options,
allows candidates to acquire experience in the
techniques of conventional as well as
technology-oriented systems instruction. The
program requires a minimum of 90 hours of
approved graduate work beyond the bachelor’s
degree. Science fields include: biology,
chemistry, geological sciences, natural resources
and environmental management, and physics
and astronomy.

Degree requirements

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<td>Resrch Teach</td>
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<td>Adv Teh Sci</td>
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6 hours from

| EDPSY  | 640| Methodology   | 3      |
| EDPSY  | 642| Interim Stat  | 3      |
| EDPSY  | 741| Ap Regres An  | 3      |
| EDPSY  | 742| Statist Tech  | 3      |
| EDSTU  | 660| Ethno Res Ed  | 3      |
| EDSTU  | 735| Resrch Teach  | 3      |

17 hrs

Education

| EDCUR | 601| Curric Devel  | 3      |
| EDFON | 631| Philosophy Ed | 3      |
| EDFON | 641| Hist Amer Ed  | 3      |
6 hours from
EDCUR 610 Elem Sch Cur (3)
or
620 Sec Sch Cur (3)
or
630 Jr H Mid Cur (3)
EDFON 621 Educ Ethics (3)
EDPSY 600 Adv Ed Psy (3)
606 Lrn & Motiv (3)
628 Adoles Devel (3)
PSYSC 616 Percp Cognit (3)
618 Thinking (3)

| 15 hrs |

Dissertation/Record of Study
DISS 799 Drs Dissert (1-24)

| 10 |

90 hrs

Option 2
College (Community College/Junior College/Small Liberal Arts College)

Science Faculty

Science Content
(at least 24 hours in one field)

36

Science Education

| 15 |

Research Methodologies
ID 705 Resrch Collq (1-3)
SCI 699 Res Mth Ed

| 3 |

5

| 9 |

9 hours from
BIO 548 Biometry (3)
CHEM 500 Chem Comunic (1)
and
696 Resrch Meth (2)
EDPSY 641 Statist Meth (3)
642 Interim Stat (3)

| 742 Statist Tech (3) |
| 743 Factor Analy (3) |
| 660 Ethno Res Ed (3) |
| 735 Resrch Teach (3) |
| 685 Geo Res Meth (3) |
| 572 App Res Meth (3) |
| 681 Resour Meth (3) |
| 14 hrs |

Education
EDHI 609 Prep Prof (3)
611 Tch Cur H Ed (3)

| 6 |

9 hours from
EDAC 634 Adlt Learner (3)
635 Tchg Adlts (3)
638 Pro Com Adlt (3)
EDFON 631 Philsophy Ed (3)
641 Hist Amer Ed (3)
EDHI 601 Theor St Dev (3)
602 Amer Col Stu (3)
EDPSY 600 Adv Ed Psy (3)
606 Lrn & Motiv (3)
629 Adult Devel (3)

| 9 |

Dissertation/Record of Study
DISS 799 Drs Dissert (1-24)

| 10 |

90 hrs

DOCTOR OF PHILOSOPHY (PhD) IN ENVIRONMENTAL SCIENCE

This degree prepares graduates for careers in post-secondary education, where research is among the professional expectations and for careers in scientific research in the public and private sectors. Unique to this degree is its interdisciplinary focus. Each student’s program originates in a major discipline, is complemented by course work from other scientific disciplines, and culminates in a dissertation that draws from more than one discipline. Each student will participate in an interdisciplinary research seminar every semester in residence and will present his/her research at several meetings of the seminar. Students develop the skills necessary to pursue
complex questions in environmental science that require an interdisciplinary approach. Applicants must meet the admission requirements of the Graduate School.

Degree requirements

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SCIENCE (SCI)

501 Electron and Confocal Microscopy. (3) Introduction to the techniques and theory of electron and confocal microscopy. Emphasizes basic procedures employed in specimen preparation, production of micrographs and operation of the transmission, scanning, and confocal microscopes.

690 Workshop in Science Education. (1-12) Practical experience with teaching science at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific topic (e.g., chemistry or geology). May be repeated for different level and/or topic.

Prerequisite: teaching experience or certification or permission of the instructor.

692 Topics in the History and Nature of Science. (3) Examination of the historical development of science from a wide variety of perspectives. Roles of scientists, society, culture, and gender in the creation and validation of scientific knowledge. Implications of the Nature of Science for science teaching and learning.

695 Advanced Teaching Methods in Science. (3-6) Recent developments in science teaching at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific topic (e.g., biology or physics). May be repeated for different level and/or topic.

Prerequisite: teaching experience or certification or permission of the instructor.

A total of 6 hours of credit may be earned.

696 Current Issues in Science Education. (3-6) Current research and theory of teaching science at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific science topic (e.g., chemistry or geology). May be repeated for different level and/or topic.

Prerequisite: permission of the instructor.

A total of 6 hours of credit may be earned.

699 Research Methodology in Science Education. (3) Identification of research problems in science and science education. Introduction to types of research, research design, and grant-writing. Review of literature pertinent to a special topic of student interest. Development of a research proposal.

Prerequisite: permission of the department chairperson.

790 Internship in Science Education. (1-4) Supervised experience in instruction of science or science education courses.

Prerequisite: permission of the department chairperson.

A total of 4 hours of credit may be earned.
MASTER OF ARTS IN SOCIAL SCIENCE

Admission requirements

Applicants must meet the admission requirements of the Graduate School. To qualify for a graduate assistantship in the department, an applicant must take the general and subject (one of the social science disciplines) tests of the Graduate Record Examination (GRE) and ordinarily have an undergraduate GPA of at least 3.0 on a scale of 4.0.

Degree requirements

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<td>Courses from anthropology, economics, geography, government, psychology, sociology, United States history, and world civilization; at least one social studies methods course.</td>
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ANTHROPOLOGY

www.bsu.edu/anthropology
Burkhardt Building 315, 765-285-1575

PROGRAMS

Master of arts (MA) in anthropology

Admission requirements

Applicants must meet the admission requirements of the Graduate School, meet a cumulative undergraduate minimum GPA of 2.75 on a 4.0 scale, and have the approval of the departmental graduate committee. The graduate committee bases its decisions on the applicant’s undergraduate transcripts; Graduate Record Examination (GRE) scores; written recommendations; and a 300-500 word narrative detailing relevant background, reasons for wishing to undertake graduate study in this department, and the relationship of such study to long-term goals and interests in anthropology. Applicants whose undergraduate majors are not anthropology or closely related subjects may be required to complete undergraduate courses to acquire background knowledge. Credit for these courses does not apply to degree requirements. It is suggested that students wishing to focus on archaeology participate in a summer field school or have equivalent experience before beginning studies.

MASTER OF ARTS IN ANTHROPOLOGY

Degree requirements

The minimum requirement for the MA in anthropology is 32 hours of graduate credit. Although students are encouraged to take general courses, they may focus on cultural and biological anthropology or archaeology. In keeping with the principle that students should have a broad knowledge of anthropology, core courses covering those three major subdisciplines are required; this requirement can be waived only by the graduate committee. In order for students to acquire an understanding of
anthropology as a profession and a background in anthropological thought, ANTH 600 Graduate Studies Seminar and a course emphasizing method and/or theory are also required. A required 6-hour thesis permits students to specialize and acquire skills in research methods and techniques. A public thesis defense presentation is also required. Beyond these requirements, each student’s plan of study will be tailored to individual needs. The completed thesis document would be subject to approval by the committee following a public oral defense.

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**Graduate Minor in Anthropology**

Requires a minimum of 9 hours of approved anthropology courses. Students wishing to pursue a minor should contact the department chairperson before taking any anthropology courses.

**CERTIFICATE IN INTERPRETIVE ETHNOGRAPHY**

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**ANTHROPOLOGY (ANTH)**

**501 History of Method and Theory in Anthropology. (4)** Surveys the major ideas and issues of anthropology over time. Includes methods and theories from archaeology, biological anthropology, linguistics, and cultural anthropology. For students without a strong undergraduate background in anthropology.  

*Not open to students who have credit in ANTH 301.*

**505 Topics in Biological Anthropology. (3)** Covers a variety of advanced current and special topics in biological anthropology, depending on students’ interests and capacities. May be repeated for different topics.  

*Prerequisite:* an introductory biological anthropology course or permission of the instructor.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

**506 The Anthropology of Physical Growth and Development. (3)** Children’s physical growth and development, its regulation, variation, and assessment in different times and places.  

*Prerequisite:* an introductory physical anthropology course.

*Not open to students who have credit in ANTH 306.*
507 Applied Anthropology. (3) Investigates the problems and work that engage the attention of anthropologists outside the university setting. Examination of new skills needed to supplement those traditionally taught in anthropology.

Not open to students who have credit in ANTH 307.

512 Ecological Dimensions of Culture. (3) Explores the system of relationships between any human population and its environment, focusing on cultural behavior. Uses studies from ancient to modern times and models and theories from ecology and anthropology; considers both applied and theoretical perspectives.

Prerequisite: an introductory cultural anthropology course (waived for minors in environmentally sustainable practices) or permission of the instructor.

Not open to students who have credit in ANTH 312.

515 Human Paleontology. (3) Fossil record of the evolution of humans and their primate predecessors.

Prerequisite: ANTH 206 or equivalent or permission of the instructor.

Not open to students who have credit in ANTH 315.

516 Human Osteology. (3) Laboratory and lecture dealing with the human skeleton including identification of whole and fragmentary bones and the assessment of the age, stature, sex, and other traits of a skeleton as applied to paleodemography, paleopathology, and forensic problems.

Prerequisite: ANTH 206 or equivalent or permission of the instructor.

Not open to students who have credit in ANTH 416.

521 Social Organization. (3) Provides a systematic cross-cultural analysis of human organizations from kinship-based societies to modern bureaucracies. Using an evolutionary approach, provides both theoretical perspectives and applied understanding.

Prerequisite: ANTH 101, 111 or permission of the instructor.

525 Evolutionary Adaptation and Human Diversity. (3) Human biological variation in the contemporary world: examination of its distribution, inheritance, development, and adaptiveness.

Prerequisite: an introductory biological anthropology course or permission of the instructor.

Not open to students who have credit in ANTH 305.

527 Culture and Medicine. (3) Focuses on conceptions of health and illness from a cross-cultural perspective.

Not open to students who have credit in ANTH 427.

529 Laboratory Methods in Material Culture. (4) Addresses artifacts as reflections of culture. Focuses on ethnoarchaeology and experimental archaeology, as well as the integration of research design, recovery, identification, and laboratory analysis of artifacts from archaeological sites.

530 Topics in Native North American Cultures. (3) Topics in Native American cultures or study of Native American cultures of a particular region. May be repeated for different topics.

Not open to students who have credit in an undergraduate course covering the same topic.

531 Native Americans of North America. (3) Survey of cultures of North American Native Americans emphasizing their economic, socio-political, and religious institutions.

Not open to students who have credit in ANTH 331.

532 Native Americans of the Great Lakes. (3) In-depth study of selected Native American cultures indigenous to the Great Lakes region from the time of European contact to the contemporary period.

Not open to students who have credit in ANTH 332.
534 Midwestern Archaeology. (3) Archaeological development of the Midwest traced through the Paleo-Indian, Archaic, Woodland, and Mississippian stages.

Prerequisite: ANTH 103 or 204.
Not open to students who have credit in ANTH 334.

537 Contemporary Problems of the Native Americans. (3) Detailed study of current issues facing Native Americans. Particular issues facing tribes in specific regions and general issues of a pan-Native American nature will be covered.

Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
Not open to students who have credit in the corresponding undergraduate course in the same region.

540 Anthropological Field Trip. (3-6) Exposes students to lifeways of groups outside mainstream society whose lives and communities are significantly shaped by the policies of the larger society. Can be used for trips in various subfields of anthropology when appropriate.

Prerequisite: permission of the instructor.
A total of 6 hours of credit may be earned.

541 Anthropology and Women. (3) Development of the female phenotype; variation in the roles assigned in cultures of different levels of complexity, from gather-hunters to industrial societies—both Western and non-Western—and the contributions of women anthropologists to understanding this variation.

Not open to students who have credit in ANTH 341.

542 American Culture. (3) Examines how the values, beliefs, and norms of American culture are integrated into and symbolized in various media. Explores how Americans experience and resolve cultural tensions between individualism and community, equality and hierarchy, competition and cooperation.

Not open to students who have credit in ANTH 342.

543 Historical Archaeology of Eastern United States. (3) Explores primary historical processes and archaeologically significant trends in material culture that have shaped modern life since AD 1500.

Not open to students who have credit in ANTH 343.

545 Archaeological Field School. (3-6) Provides the practical application of archaeological methods, techniques, and strategies in a field setting. Participation in a supervised investigation of a formal archaeological problem at an actual archaeological site or at an experimental site.

Prerequisite: permission of the instructor.
A total of 6 hours of credit may be earned.

550 Ethnographic Field School. (6-12) An intensive immersion in the methods of field research in cultural anthropology. Emphasizes problem formulation, observation, interviewing, writing, and interpretation of field data. Field schools are intended to provide specific skills that result in an ethnographic report.

Prerequisite: permission of the instructor.
A total of 12 hours of credit may be earned.

551 Witchcraft, Magic, and Religion. (3) Anthropological study of humankind’s age-old concern with life, death, sickness, and the unknown. Discusses human attempts to control life through supernatural beings, prayer, sacrifice, and techniques of magic and witchcraft.

Not open to students who have credit in ANTH 451.

552 Anthropology of Technology. (3) Reviews the anthropological literature on technology, focusing on cultural and comparative aspects of technology. This subfield’s theoretical base and research methods will also be assessed.

Not open to students who have credit in ANTH 452.

555 Primatology. (3) Comparative survey of nonhuman primates, their biology and behavior.
Prerequisite: ANTH 206 or permission of the instructor.
Not open to students who have credit in ANTH 455.

557 Applied Archaeology. (3) Special problems of contract, conservation, and public archaeology, including laws and guidelines, relations with governmental and private agencies, research design and proposals, field and laboratory methods, and curation.

Not open to students who have credit in ANTH 457.

559 Ethnographic Methods. (3) Develops the ability to conduct and comprehend ethnographic research. Includes research design, data collection, analysis, reporting, basic statistics, and computer use. Emphasizes both quantitative and qualitative techniques for basic and applied research.

Prerequisite: 15 hours of ANTH courses or permission of the instructor.

Not open to students who have credit in ANTH 459.

560 Topics in Ethnology. (3) Considers special topics not covered by regular courses. One topic is studied in a semester. May be repeated for different topics.

Not open to students who have credit in an undergraduate course covering the same topic.

563 Theory and Method in Historical Archaeology. (3) Presents a detailed summary of theory and methods used by historical archaeologists, including social theory, historical methods, and archaeological analysis methods.

Not open to students who have credit in ANTH 463.

564 European Prehistory. (3) Prehistory of Europe from the Paleolithic through the Iron Age emphasizing the regions north and west of the classical world.

Not open to students who have credit in ANTH 364.

570 Topics in Regional Ethnography. (3) Considers the culture of a selected geographic area not covered by regular courses. May be repeated for different areas.

571 Ethnohistory. (3) Methods and theories of ethnohistory introduced by emphasizing how culture and history intersect with race, ethnicity, gender, class, and sexuality; a research-intensive class.

Not open to students who have credit in ANTH 471.

577 Topics in Museum Operations. (3) Introduces various aspects of museum operations, such as organization, financing, curation, exhibits, public interpretation, and conservation of collections. Emphasizes ethnographic and archaeological collections. May be repeated for different topics.

Not open to students who have credit in ANTH 377.

580 Topics in Archaeology. (3) Surveys archaeology of a selected region (e.g., Southwest) or focuses on a specialized area. May be repeated for different topics.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

581 Culture, Economy, and Development. (3) Concerned with a culturally embedded view of allocation, conversion, production, distribution, and consumption of resources. Emphasizes economic development in third- and fourth-world countries both from theoretical and applied perspectives.

Not open to students who have credit in ANTH 481.

582 Native Americans of the American Southwest. (3) Surveys prehistoric, historic, and contemporary cultures of selected Southwest Native American groups. Emphasizes culture-specific solutions to problems perceived in their relationship to their natural and social environments.

Not open to students who have credit in ANTH 482.

590 Topics in Cultural Change. (3) Surveys from various perspectives the major concepts
and processes of culture change, including globalization and its effects on cultures and individuals.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.  
*Not open to* students who have credit in ANTH 460.

**600 Graduate Studies Seminar. (1)**
Introduction to the nature, purpose, and practice of scholarly inquiry in academic and applied environments. Includes exposure to major literature and research resources in the field, familiarization with professional culture and faculty resources, individual program design, and thesis planning.

A total of 2 hours of credit may be earned, but no more than 1 in any one semester or term.

**601 Scope of Cultural Anthropology. (3)**
Overview of theory in cultural anthropology and its application to various conditions of recent and contemporary human society and culture.  
*Prerequisite:* undergraduate anthropology major or minor, admission to anthropology graduate program or permission of the instructor.

**603 Scope of Archaeology. (3)**
Overview of current archaeological research foci and interpretive frameworks in their historical context. Considers the relationship of archaeology to the other subdisciplines of anthropology and broader anthropological concerns.

**605 Scope of Biological Anthropology. (3)**
Survey of the basic methods and theories of biological anthropology.  
*Prerequisite:* undergraduate anthropology major or minor, admission to anthropology graduate program or permission of the instructor.

**609 Independent Study in Anthropology. (1-3)**
Topics to be chosen and investigated in consultation with the instructor with special competence in the subject involved.  
*Prerequisite:* permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

**695 Research Methods in Anthropology. (3)**
An opportunity to use research techniques appropriate to one or more subfields of anthropology in developing a research model, gathering and analyzing data, and organizing the material in a research paper or report.

**696 Internship in Anthropology. (3-6)**
On-the-job experience practicing anthropology for a period of five to ten weeks with an institution or agency.

A total of 6 hours of credit may be earned.

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**BIOLOGY**

[www.bsu.edu/biology](http://www.bsu.edu/biology)
Cooper Science Complex 121, 765-285-8820

**PROGRAMS**

Master of arts (MA) in biology; master of science (MS) in biology; doctor of education (EdD) in science education and doctor of philosophy (PhD) in environmental science. Graduate minors in biology are also offered at the master's level. A biotechnology certificate is also available. The science and general science program requirements may be found in the Science section, page 180.

See the Science listing under the College of Sciences and Humanities, page 180, for the
doctrinal programs in science education and philosophy in science.

MASTER'S PROGRAMS

Admission requirements

Applicants must meet the admission requirements of the Graduate School and submit scores from the Graduate Record Exam (GRE). Students should have good backgrounds in the life sciences, chemistry, mathematics, and physics and baccalaureate degrees with majors or minors in biology or the equivalent. Exceptions may be made by petition to the department. Students entering without adequate background are expected to make up the deficiencies during their first year.

Professionalization of a Teaching License

Any of the master’s programs may be used to convert a standard-grade teaching license to a professional-grade teaching license. Teachers working toward professional certification must complete a 9-hour professional education component, which includes at least one of the following: BIO 691, 694, PHYCS 691, or SCI 696. The BIO, PHYCS, or SCI hours may count toward the major area, the other hours as minor and elective hours toward the total of 30 hours.

MASTER OF ARTS IN BIOLOGY

Designed to strengthen the student’s background in biological sciences and related disciplines through course work at the graduate level; there is no research thesis requirement. Prepares students for jobs in biomedical laboratories, natural resource management agencies, scientific supply firms, environmental consulting firms, and scientific publishing firms, as well as for further education.

Degree requirements

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or

| RES 697 Research Ppr (1-3) |
| or |
| BIOT 596 Res Des/Pres (2) |
| and |
| BIOT 590 Recomb Techn (3) |
| or |
| SCI 699 Res Mth Ed (3) 16-30 |

Minors and electives 0-14

30 hrs

Minors are optional, but if taken must include at least 8 hours of courses approved by a designated advisor from the minor area and the biology department.

MASTER OF SCIENCE IN BIOLOGY

Includes both graduate course work and extensive research experience culminating in a research thesis. It is designed to prepare students for further study at the doctoral level, but graduates may also find employment in research-oriented activities of government agencies or private business firms.

Degree requirements

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<td>THES 698 Thesis (1-6) 16-30</td>
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Minors and electives 0-14

30 hrs

Minors are optional, but if taken must include at least 8 hours of courses approved by a designated advisor from the minor area and the biology department.

GRADUATE MINOR IN BIOLOGY

Requires 8 or more hours of approved BIO, BOT, and ZOOL courses.

BIOTECHNOLOGY CERTIFICATE
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**BIOLOGY (BIO)**

**501 Developments in Modern Biology.** (3-6) Stresses recent discoveries in biology and integrates and enhances understanding of basic principles of the discipline.

A total of 6 hours of credit may be earned.

**516 Population Ecology.** (3) Presents fundamental principles of population growth and regulation, including both with-species and between-species interaction. Implications for over-population, endangered species, and pest and game management are discussed. Laboratory includes both experimental studies and computer simulation exercises.

**520 Field Biology of Distant Areas.** (3-12) The species peculiar to selected geographic areas. Ecology, flora, and fauna. Travel may be by air. Seminars may be scheduled regularly throughout the course. Registration fee may include travel charges as well as the general fee.

**530 Field Biology of Distant Areas.** (3-12) The species peculiar to selected geographic areas. Ecology, flora, and fauna. Travel may be by air. Seminars may be scheduled regularly throughout the course. Registration fee may include travel charges as well as the general fee.

**540 Evolution.** (3) Principles, evidence, and the historical context of modern evolution theory. Some attention will be given to the origin of life and the evolution of plants and animals.

**546 Applied Microbiology.** (3) Study of microorganisms that effect beneficial and detrimental changes in foods (including milk and milk products) and industrial fermentations.

**548 Biometry.** (3) Principles and applications of statistics to biological problems. The use of parametric and nonparametric tests of significance in the analysis of data and the interpretation of experiments.

**552 Advanced Genetics.** (3) Bacterial and eukaryotic genetics with emphasis on recent developments in molecular genetics. Topics include alternative structures of DNA, mechanisms of DNA replication, mutagenesis, DNA rearrangements, regulation of gene expression, RNA processing, and molecular and mutagenetic analysis of the cell cycle.

**553 Human Genetics and the Problems of Humankind.** (3) Current developments in human heredity. Human chromosome
aberrations. DNA, the genetic code, and mutations. Consanguineous marriages and genetic defects. Mendelian principles applied to humans. Pedigrees and probability. Genetic screening and counseling. Social, ethical, and legal problems and advances in genetics.

Prerequisite: BIO 214 or permission of the instructor or department chairperson.

Not open to students who have credit in BIO 453.

554 Development and Evolution of Genomes: Genomics and Proteomics. (3) Analysis of the development, expression, and evolution of genomes through the examination of genomics and proteomics. Attempts to explore the theoretical basis of developing technologies to provide models for application to current questions in biological systems from the cellular or organismal levels by treatment of the genome as a system.

Prerequisite: BIO 214, 215; or permission of the instructor.

Not open to students who have credit in BIO 454.

556 Cancer Biology. (3) Examination of the biological basis of cancer, discussion of related contemporary issues, and overview of recent advances in cancer research. Emphasis on cancer progression, tumor production, etiology/epidemiology, prevention, modern therapies, and patient management.

Prerequisite: BIO 215, its equivalent, or permission of the department chairperson.

557 Molecular Biology. (4) Structure and function of macromolecules in living things. Emphasizes three-dimensional structures; models for enzyme mechanisms, DNA replication; protein synthesis and membrane function; and applications of biotechnology.

Prerequisite: BIO 215 or the equivalent, or permission of the department chairperson.

Not open to students who have credit in BIO 457.

560 Microtechniques. (4) A lecture/lab course in the preparation of biological material for microscopic examination in teaching, research, and clinical applications. Emphasizes preparation of smears, squashes, whole mounts, paraffin, and frozen plant and animal sections, and photomicrography.

Not open to students who have credit in BIO 460.

570 Developmental Biology. (4) Recent advances and theories in early embryogenesis and developmental biology. Major emphasis on genetic and molecular mechanisms operating during developmental phenomena. Topics include fertilization, mosaic versus regulative development, regulation of gene expression, patterning, germ line and sex determination, and neoplasia. Lecture and laboratory.

Prerequisite: BIO 215 or equivalent or permission of the department chairperson.

Not open to students who have credit in BIO 470.

580 Limnology. (3) The physical, chemical, and biological characteristics of inland waters. Laboratory time and several field trips will be devoted to exploring techniques for the evaluation of representative aquatic ecosystems.

Prerequisite: BIO 216 or permission of the department chairperson.

Not open to students who have credit in BIO 480.

582 Aquatic Microbiology. (3) Microorganisms indigenous to nonpolluted and polluted aquatic ecosystems. Emphasizes nutrient cycling and the use of microorganisms as indicators of pollution. Morphology, physiology, and ecology of specific organisms. Lecture and laboratory.

Prerequisite: BIO 313.

Not open to students who have credit in BIO 482.


Not open to students who have credit in BIO 483.
592 Bioethical Decision Making. (3)
Development of decision-making skills through
the analysis and personal resolution of bioethical
problems created by the application of new
biological and biomedical knowledge and
technologies.

*Not open to* students who have credit in BIO 492.

628 Readings in Biology. (1-3) Directed
readings for majors in biology. Individualized
program of readings developed under the
supervision of a faculty member.

*Prerequisite:* permission of the department
chairperson.

A total of 3 hours of credit may be earned.

629 Seminar in Biology. (1) Review and
discussion of the literature related to selected
topics of current interest in biological research.

*Prerequisite:* permission of the department
chairperson.

A total of 2 hours of credit may be earned,
but no more than 1 in any one semester or term.

631 Virology. (4) An in-depth study of viruses,
including animal, plant, insect, and bacteria
viruses. Topics include the physical and
chemical properties of viruses, virus-host
interactions, and pathogenesis. In addition to the
lecture component, a weekly discussion of
journal articles emphasizing virology-based
experimental assays will also be required.

*Prerequisite:* cell biology and one course in
microbiology, or by permission of the instructor
or department chairperson. Familiarity with
immunology is preferred.

636 Immunology. (4) A study of the
components of the immune system and immune
responses with particular emphasis on immune-
related diseases. Topics include hematopoiesis,
cellular interactions, immunochemistry,
immunogenetics, and immune regulation and
tolerance. The lab component will emphasize
immunology-based assays and include journal
article discussions concerning immunology
topics.

*Prerequisite:* cell biology and one course in
microbiology, or by permission of the instructor
or department chairperson.

641 Medical Bacteriology. (3) Study of
pathogenic bacteria with emphasis on
morphology and physiology. Laboratory
techniques in culturing, isolating, and
identifying bacteria.

*Prerequisite:* BIO 313; CHEM 231.

*Not open to* students who have credit in BIO 341.

642 Medical Microbiology. (8) Microbiology
for medical students with consideration of
bacteria, fungi, viruses, and parasites as agents
in human disease and the immunological and
serological aspects of the host-parasite
relationship.

*Open only to* medical students or by
permission of the department chairperson.

653 Medical Genetics. (2) Genetics for medical
students: basic genetic principles, human
cytogenetics, molecular genetics, genetic
epidemiology; probability, population and
quantitative (multifactorial) genetics;
dermatoglyphics, etiology of birth defects,
inborn metabolic disorders, genetic screening
and counseling, genetics of mental illness and
cancer, pharmacogenetics, immunogenetics, and
gene
ingeering.

*Open only to* medical students or by
permission of the department chairperson.

655 Cell Biology. (4) Biology of the cell,
including cell morphology, bioenergetics,
enzyme function, cell environment, membrane
structure and function, cell metabolism, and cell
differentiation and growth.

*Prerequisite:* CHEM 360.

*Not open to* students who have credit in BIO 215.

656 (518) Ecosystem Ecology. (3) Principles
and application of ecosystem ecology. Provides
students with an understanding of concepts in
modern ecosystem ecology and with an in-depth
analysis of ecosystem components, processes,
and factors that control them.

*Prerequisite:* BIO 216 or the equivalent, or
permission of the instructor.
**657 Multivariate Analysis of Environmental Data.** (3) Introduction to multivariate statistical techniques and technological tools necessary to evaluate the literature and to carry out original research in the environmental sciences.  
*Prerequisite:* BIO 448 or 548 or the equivalent, or permission of the instructor.

**669 Internship in Biology.** (1-6) Paid, supervised field and laboratory experience in public or private agencies (or in the Department of Biology). Training involves application of biological principles in the work environment.  
*Prerequisite:* permission of the department chairperson.  
A total of 6 hours of credit may be earned.

**691 Developments in Biology Education.** (3) Origin, content, emphasis, and objectives of recent curriculum developments and philosophical approaches to teaching science in the secondary school. Student activities include presentation of current topics and creation of instructional materials that incorporate the most current techniques.  
*Prerequisite:* an undergraduate major or minor in science.

**694 Practicum in Science Education.** (1-6) Science curricula and instruction in classroom situations. Needs assessment in science education from the point of view of inservice teachers and their students. Staff consultation in implementation of improved science programs.  
*Prerequisite:* permission of the department chairperson.  
A total of 6 hours of credit may be earned.

**697 Research in Biology.** (1-3) Independent research for biology majors at the master’s level. Students’ research projects must be developed in consultation with a faculty member.  
*Prerequisite:* permission of the department chairperson.  
A total of 8 hours of credit may be earned, but no more than 6 in any one semester or term.

**BIOTECHNOLOGY (BIOT)**

**590 Introduction to Recombinant DNA and RNA Techniques.** (3) Study of the fundamental methods and approaches used in biotechnology with experiences in recombinant DNA and RNA techniques. Emphasis on theory and practice of commonly used scientific techniques, experimental design, and reading and analysis of scientific literature.  
*Prerequisite:* BIO 215 or 655.  
*Not open to* students who have credit in BIOT 490.

**591 Theory and Applications of the Polymerase Chain Reaction.** (3) Study of the theory of the polymerase chain reaction and its standard applications in research. Emphasis on experimental design and optimization of reactions, applications in DNA and RNA analysis, differential display, site-directed mutagenesis, and subcloning of PCR products.  
*Prerequisite:* BIO 215 or 655.  
*Not open to* students who have credit in BIOT 491.

**592 Protein Isolation and Analysis.** (3) Study of the theory and application of techniques involved in protein isolation, characterization, and analysis. Emphasis on understanding principles of protein purification, laboratory experiences in protein separation, detection and analysis of structure function relationships.  
*Prerequisite:* BIO 215 or 655.  
*Not open to* students who have credit in BIOT 492.

**593 Professional Development in Biotechnology.** (1) Emphasizes curriculum vita development. Provides employment counseling, discussion of job ethics and values, information on laboratory set-up, and job interview strategies.
Not open to students who have credit in BIOT 493.

594 Cell Culture Techniques. (2) Study of the practice and theory of cell and tissue culture. Emphasis on the application of basic concepts and techniques to the in vitro culture of many different cell types.
   Prerequisite: BIOT 590.
   Not open to students who have credit in BIOT 494.

595 DNA Sequencing and Bioinformatics. (2) Covers the determination of DNA nucleotide sequence and Internet/software utilization of DNA and protein databases for sequence analysis.
   Prerequisite: BIOT 590.
   Not open to students who have credit in BIOT 495.

596 Research Design and Presentation. (2) Emphasizes improvements in oral and written communication skills, and development of an independent research proposal.
   Prerequisite: BIOT 590.
   Not open to students who have credit in BIOT 496.

BOTANY (BOT)

   Prerequisite: BIO 112 or permission of the department chairperson.
   Not open to students who have credit in BOT 440.

542 Economic Botany. (3) The cultivation, processing, environmental requirements, and use of plants and plant derivatives for food, drugs, dwellings, clothing, and power.
   Not open to students who have credit in BOT 442.

544 Plant Propagation and Management. (3) Practical experience in the different methods of plant propagation, care, and cultivation for use in the home, school, garden, and greenhouse. Diseases, pathogens, and pests of the plant.

546 Medical Mycology. (3) Study of fungi with emphasis on pathogenic forms. Methods of identification of fungi will be discussed along with morphology and biochemistry of fungi.
   Prerequisite: BIO 313.
   Not open to students who have credit in BOT 446.

   Prerequisite: BIO 112; CHEM 231.
   Not open to students who have credit in BOT 451.

560 Plants and Their Allies. (4) Evolutionary-phylogenetic survey of plant forms. Includes bacteria, algae, fungi, bryophytes, and vascular plants. Emphasizes comparative morphology and anatomy, reproductive structures, cycles, and adaptations to varying habitats.
   Prerequisite: BIO 111, 112.

570 Dendrology. (3) The identification and site characterization of woody plants with emphasis on midwestern tree species. Use of botanical features and keys in field identification. Correlation of species with site conditions, plant diseases, climatic parameters, associate species, and geographical distribution.
   Prerequisite: BIO 112 or permission of the department chairperson.
   Not open to students who have credit in BOT 470.

580 Plant Ecology. (3) Factors affecting the distribution and abundance of plants. Patterns, structure, and development of plants at the individual, population, and community levels. Laboratory provides experience with ecological experimentation at the physiological, population, and community levels.
   Prerequisite: BIO 216 or permission of the instructor.
581 Aquatic Botany. (4) The collection and identification of nonvascular and vascular plants from fresh water ecosystems. Emphasizes morphology, physiology, and ecology of these plants to explain their distribution in nature. Class project and field trips may be used to demonstrate ecological relationships.

Prerequisite: BIO 112 or permission of the department chairperson.

Not open to students who have credit in BOT 481.

SCIENCE (SCI)

501 Electron and Confocal Microscopy. (3) Introduction to the techniques and theory of electron and confocal microscopy. Emphasizes basic procedures employed in specimen preparation, production of micrographs and operation of the transmission, scanning, and confocal microscopes.

690 Workshop in Science Education. (1-12) Practical experience with teaching science at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific topic (e.g., chemistry or geology). May be repeated for different level and/or topic.

Prerequisite: teaching experience or certification or permission of the instructor.

A total of 24 hours of credit may be earned, but no more than 12 in any one semester or term.

692 Topics in the History and Nature of Science. (3) Examination of the historical development of science from a wide variety of perspectives. Roles of scientists, society, culture, and gender in the creation and validation of scientific knowledge. Implications of the Nature of Science for science teaching and learning.

695 Advanced Teaching Methods in Science. (3-6) Recent developments in science teaching at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific topic (e.g., biology or physics). May be repeated for different level and/or topic.

Prerequisite: teaching experience or certification or permission of the instructor.

A total of 6 hours of credit may be earned.

696 Current Issues in Science Education. (3-6) Current research and theory of teaching science at specific level (early childhood, elementary, middle, secondary, or higher education) and/or specific science topic (e.g., chemistry or geology). May be repeated for different level and/or topic.

Prerequisite: permission of the instructor.

A total of 6 hours of credit may be earned.

699 Research Methodology in Science Education. (3) Identification of research problems in science and science education. Introduction to types of research, research design, and grant-writing. Review of literature pertinent to a special topic of student interest. Development of a research proposal.

Prerequisite: permission of the department chairperson.

790 Internship in Science Education. (1-4) Supervised experience in instruction of science or science education courses.

Prerequisite: permission of the department chairperson.

A total of 4 hours of credit may be earned.

ZOOLOGY (ZOOL)

532 Invertebrate Zoology. (4) Comparative morphology, physiology, ecology, life histories, and phylogeny of invertebrate animal phyla.

Prerequisite: BIO 111, 112, or permission of the department chairperson.

Not open to students who have credit in ZOOL 432.

540 Ornithology. (3) The study of birds including identification, systematics, anatomy, physiology, life histories, ecological relationships, and conservation. Fieldwork in addition to regular laboratory periods may be required.

Not open to students who have credit in ZOOL 440.

541 Entomology. (3) Anatomy, physiology, taxonomy, life histories, habits, and adaptations of insects.
Prerequisite: BIO 111, 112, or permission of the department chairperson.
Not open to students who have credit in ZOOL 441.

544 Ichthyology. (3) The study of fish with emphasis on identification, classification, anatomy and physiology, and ecology. Emphasizes Indiana species but includes other important species.
Prerequisite: BIO 111, 112, or permission of the department chairperson.
Not open to students who have credit in ZOOL 444.

545 Herpetology. (3) Introduction to the biology of amphibians and reptiles, including their origin, anatomy, physiology, classification, behavior, and ecology. Through extensive field trips, the laboratory will emphasize identification and observation of amphibians and reptiles in their natural habitats.
Prerequisite: BIO 112.
Not open to students who have credit in ZOOL 445.

546 Mammalogy. (3) The evolutionary origin, characteristics, and distribution of recent mammals. The economic relationships of mammals. The collection and preservation of specimens. May require additional fieldwork.
Not open to students who have credit in ZOOL 446.

565 Fishery Resources Management. (3) The relationship of fisheries to other natural resources; a survey of aquatic habitats and the characteristics of fish that affect their management; basic principles, practices, and techniques of management of inland waters for fish production.
Prerequisite: BIO 216 or permission of the department chairperson.
Not open to students who have credit in ZOOL 465.

583 Wildlife Biology. (3) The identification, population dynamics, and geographic distribution of wildlife species with particular emphasis on those of the United States. The harvest and management of wildlife. May require additional fieldwork.
Prerequisite: BIO 216 or permission of the department chairperson.
Not open to students who have credit in ZOOL 483.

584 Aquatic Entomology. (3) Immature and adult stages of aquatic insects, including collecting techniques, identification, ecological requirements, morphology, and evolutionary adaptations to lentic and lotic conditions. Emphasizes aquatic insects as indicators of environmental quality and stress.
Prerequisite: ZOOL 541 or permission of the department chairperson.
Not open to students who have credit in ZOOL 484.

670 Field Zoology. (3) The field study of animals—terrestrial and aquatic, invertebrate and vertebrate, microscopic and macroscopic—with emphasis on the collection and identification of noninsect invertebrates.

682 Animal Ecology. (3) The composition, development, dynamics, and geographic distribution of animal communities. The relationships between animals and the physical, chemical, and biotic elements of the environment. Includes physiological ecology and ethology. Field studies of animal communities.

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CHEMISTRY

www.bsu.edu/chemistry
Cooper Science Complex 305, 765-285-8060

PROGRAMS
Master of arts (MA) in chemistry and master of science (MS) in chemistry

See the Science listing under the College of Sciences and Humanities, page 180, for doctoral programs in science education and philosophy in environmental science.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and should have satisfactory Graduate Record Examination (GRE) verbal and quantitative scores.

MASTER OF ARTS IN CHEMISTRY

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Graduate chemistry courses approved by the graduate advisor 9

Research requirements
4 hours from
CHEM 670 Resrch Chem (1-7) 7
CHEM 696 Resrch Meth (2) 6
RES 697 Research Ppr (1-3) 4

30 hrs

Chemistry option

Chemical Education option

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<td>Seminar</td>
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Research requirements
4 hours from
CHEM 671 Resrch Ch Ed (1-7) 7
THES 698 Thesis (1-6) 6

30 hrs

These programs are designed for students who hold bachelor of science or bachelor of arts degrees in chemistry, including at least one year of calculus-based physical chemistry. Students with substantial backgrounds (e.g., those who have completed at least ACS-certified bachelor’s degrees or work beyond the bachelor’s level) may have one or more of the core course requirements waived, but the minimum number of 30 hours required for graduation still applies. These students should discuss the possibilities with the chemistry graduate advisor.
Students with substantial chemistry backgrounds but who have undergraduate degrees in such other disciplines as biology, medical technology, premedicine, or predentistry may be admitted to the graduate program to begin some graduate course work while making up undergraduate deficiencies. However, courses taken to remove undergraduate deficiencies cannot be applied to total graduate hours. These students should discuss their situations with the chemistry graduate advisor to determine whether their backgrounds are sufficient to begin graduate work in chemistry.

**CHEMISTRY (CHEM)**

**500 Chemical Communications. (1)** Use of scientific literature, sources, and classification systems, and current and retrospective searches in the specialized branches of chemistry.

*Prerequisite:* 20 hours of chemistry or permission of the department chairperson.

*Not open to* students who have credit in CHEM 400.

**520 Chemical Instrumentation 1. (3)** Theoretical principles and applications of selected spectroscopic, electro chemical, and chromatographic methods, with illustrative experiments. Two hours of lecture and one three-hour laboratory period weekly.

*Prerequisite:* CHEM 225, 344 or 340 or permission of the department chairperson.

*Not open to* students who have credit in CHEM 420.

**521 Chemical Instrumentation 2. (3)** Advanced treatment of selected topics in spectroscopy, electrochemistry, and chromatography. Introduction to mass spectroscopy, nuclear methods, and thermal and surface analysis. Three hours of lecture weekly.

*Prerequisite:* CHEM 520 or permission of the department chairperson.

**525 Instrumental Methods of Analysis. (3)** Practical applications of modern chemical instrumentation: electrometric, chromatographic, and spectroscopic methods. For chemical/medical technologists or departmental minors. Two hours of lecture and one three-hour laboratory weekly.

*Prerequisite:* CHEM 225.

*Not applicable to* MS or MA degree programs in chemistry.

*Not open to* students who have credit in CHEM 325.

**530 Organic Laboratory Techniques. (2)** Laboratory course that includes multi-step syntheses of organic compounds, their isolation, purification, and characterization using modern spectroscopic and chromatographic techniques. Six hours of laboratory weekly.

*Prerequisite:* CHEM 232 or its equivalent.

*Not open to* students who have credit in CHEM 430.

**540 Selected Principles of Physical Chemistry. (3)** Introduction to the properties of solids, liquids, gases, and solutions and to the basic concepts of thermodynamics and kinetics. Especially for premedical, biology, and general science majors, chemistry teaching majors, and chemistry minors. Two hours of lecture and one three-hour recitation/laboratory period weekly.

*Prerequisite:* CHEM 225; MATHS 161.

*Not open to* students who have credit in CHEM 340, 344, or 544.

**544 Physical Chemistry 1. (4)** Thermodynamic and structural description of chemical processes and properties of solids, liquids, gases, and solutions. Three hours of lecture and one three-hour laboratory period weekly.

*Prerequisite:* CHEM 232 or 235; MATHS 166; one year of college physics.

*Not open to* students who have credit in CHEM 344.

*Cannot be used* for credit by a candidate for the master of science degree with chemistry as a major.

**545 Physical Chemistry 2. (4)** Continuation and extension of CHEM 544. Topics include reaction kinetics, theoretical facets of quantum mechanics, and spectroscopy. Three hours of lecture and one three-hour laboratory period weekly.

*Prerequisite:* CHEM 344 or 544.
Not open to students who have credit in CHEM 345.

Cannot be used for credit by a candidate for the master of science degree with chemistry as a major.

550 Inorganic Chemistry. (4) Chemistry of the elements, including the relationships of chemical properties and atomic and molecular structure, chemical bonding, acid-base theories, chemical periodicity, and modern theories of coordination compounds. Four hours of lecture weekly.

Prerequisite: CHEM 232 or 235 or 360; MATHS 161 or 165.

Not open to students who have credit in CHEM 450.

560 Essentials of Biochemistry. (4) Organic chemistry of carboxylic acids, amines, and their derivatives; biochemistry of proteins, carbohydrates, lipids, and nucleic acids; metabolism and the regulation of metabolic processes. For students in life sciences, dietetics, and medical technology. Three hours of lecture and one three-hour laboratory session weekly.

Prerequisite: CHEM 231 or the equivalent.

Not applicable to MS or MA degree programs in chemistry.

Not open to students who have credit in CHEM 360 or 463 or 563.


Prerequisite: CHEM 232 or 235.

Not open to students who have credit in CHEM 463.

564 Principles of Biochemistry 2. (3) Continuation and extension of CHEM 563 including biological oxidations and energy transfers; metabolism of carbohydrates, lipids, proteins, and nucleic acids; and regulation of metabolic processes. Three hours of lecture weekly.

Prerequisite: CHEM 463 or 563.

Not open to students who have credit in CHEM 464.

575 Exploration of Selected Topics in Chemistry. (1-3) Discussion or written reports or both in advanced special topics in or related to chemistry. Examples are topics in neurochemistry, physical organic, chemical synthesis, kinetics, spectroscopy, etc.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

626 Advanced Analytical Chemistry. (3) Survey of modern analytical chemistry. Topics include sampling, wet chemical techniques, nonaqueous systems, and contemporary research and applications in chromatography, spectroscopy, and electrochemistry. Three hours of lecture weekly.

Prerequisite: CHEM 225 or the equivalent.

627 Analytical Chemistry in the Environmental Sciences. (3) Survey of the development and implementation of modern analytical methods, particularly as they apply to the study of environmentally relevant systems. Techniques include gas and liquid chromatography, mass spectrometry, UV-visible absorption and fluorescence spectroscopy, electrochemistry and elemental analysis techniques such as AAS and ICP.

Prerequisite: permission of the department chairperson.

636 Advanced Organic Chemistry. (3) Topics include nomenclature, bonding, acids and bases, stereochemistry, structure- reactivity relationships, and mechanisms of important reactions. Introduction to synthesis, the disconnect approach, synths, protecting groups, and functional group interconversions.

Prerequisite: CHEM 232 or 235 or the equivalent.

646 Advanced Physical Chemistry. (3) Survey of physical chemical principles with emphasis on practical applications. Topics include thermodynamics, reaction kinetics, and selected quantum chemical applications.

Prerequisite: CHEM 345 or its equivalent.
651 Advanced Inorganic Chemistry. (3)
Continuation of CHEM 550. Current theories of bonding in coordination chemistry. Descriptive and theoretical treatments of the chemistry and structure of transition metal complexes, organometallic compounds, fluxional molecules, and metal clusters; the importance of metals in biological systems. Three hours of lecture weekly.
Prerequisite: CHEM 450, 340 or 344.

667 Medical Biochemistry. (6) Chemistry of major cellular constituents; enzymes as the catalysts of intracellular chemical reactions with emphasis on underlying principles of physical and organic chemistry. Intermediary metabolism of carbohydrates, lipids, amino acids, and nucleotides; modern techniques employed in the study of metabolic processes; biosynthesis and degradation of intracellular components; hormonal regulation of metabolism.
Prerequisite: admission to the medical education program.

670 Research in Chemistry. (1-7) Original work at the molecular level on projects based in the current scientific literature. The projects will be directed by graduate faculty and will typically involve aspects of ongoing research.
Prerequisite: permission of the department chairperson.
A total of 7 hours of credit may be earned.

671 Research in Chemical Education. (1-7) Original work based on the current science education literature. Projects will be directed by graduate faculty and may involve conducting surveys, developing new instructional materials or methods, or evaluating the effectiveness of technology-based teaching.
Prerequisite: permission of the department chairperson.
A total of 7 hours of credit may be earned.

673 Seminar in Chemistry. (1) Critical examination and discussion of recent experimental and theoretical developments in chemistry.
Prerequisite: CHEM 400 or 500; permission of the department chairperson.

675 Advanced Topics in Chemistry. (1-3) Discussion, experimentation, or both in specialized topics for the qualified advanced student. Information concerning specific topics offered during a given semester may be obtained from the departmental office. Lecture and laboratory schedules appropriate to the topics offered.
Prerequisite: permission of the department chairperson.
A total of 3 hours of credit may be earned.

676 Chemistry Research Methods. (2) Introduction to use of scientific literature, design of research experiments, specialized techniques, and writing skills endemic to the specialized fields of chemistry. Class and laboratory experience appropriate to students’ specializations.
Prerequisite: CHEM 400 or 500; permission of the department chairperson.

690 Contemporary Instruction and Curricula in Chemistry. (2-4) Designed to make the inservice chemistry teacher familiar with management of large-group instruction, development and implementation of multimedia materials in instructional schemes, use of videotape in the laboratory, and facility design for modular and other systems. Field trips to nearby schools to study facility design may be included. Two hours of lecture weekly.
Prerequisite: permission of the department chairperson.
A total of 4 hours of credit may be earned.

770 Research in Chemistry. (1-12) In-depth original work at the molecular level on projects based in the current scientific literature. The projects will be directed by graduate faculty and will typically involve aspects of ongoing research.
Prerequisite: permission of the department chairperson.
A total of 12 hours of credit may be earned.

771 Research in Chemical Education. (1-12) In-depth original work based on the current science education literature. Projects will be directed by graduate faculty and may involve conducting surveys, developing new
instructional materials or methods, or evaluating the effectiveness of technology-based teaching. 

Prerequisite: permission of the department chairperson.

A total of 12 hours of credit may be earned.

773 Chemistry and Chemical Education Seminar. (1-3) In-depth analyses of recent trends and developments in chemistry or chemical education. Seminar participants report on assigned topics to departmental groups. 

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

COMPUTER SCIENCE

The master of science (MS) degree is primarily for students with undergraduate degrees in computer science who plan to undertake further graduate study or apply computer science in a variety of fields. A minor in computer science is also offered.

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

Admission requirements

In addition to meeting the admission requirements of the Graduate School, applicants must have departmental approval for admission. Applicants must submit three letters of recommendation, a one-page statement of educational goals, and scores from the Graduate Record Examination (GRE). Students without an adequate computer science background will be required to take directed courses in which they earn an average grade of at least a B. No credit toward a degree will be granted for these courses.

MASTER OF SCIENCE IN COMPUTER SCIENCE

Required mathematics background courses (unless the student has credit in equivalent courses). No credit given toward the degree, but a grade of at least a B is to be earned in each course.

Required computer science background courses (unless the student has credit in equivalent courses). No credit given toward the degree, but a grade of at least a B is to be earned in each course.

Thesis option

Required courses

15 hours of electives (including at least one 600-level course, other than CS 699)
MINOR IN COMPUTER SCIENCE

PREFIX NO SHORT TITLE CR HRS
12 hours from
CS  527 Networks (3)  12
   530 System Prog (3)
   536 Database Dgn (3)
   538 Graphics (3)
   545 Hum-Comp Int (3)
   555 Data Mining (3)
   556 Image Proc (3)
   557 Appl Cryptog (3)
   570 Thy Cmptn 1 (3)
   576 Op Systems (3)
   636 Adv Db Sys (3)
   638 Topics Graph (3)
   639 Seminar (3)
   642 Simulations (3)
   665 Ap Comp Geom (3)
   668 Graph Algo (3)
   670 Thy Cmptn 2 (3)
   675 Model Check (3)
   678 Compil Const (3)
   689 Res Methods (3)
   690 Software Eng (3)
   699 Read Honor (3)

MATHS  562 Numer Anls 1 (3) 15
   563 Numer Anls 2 (3)  21

33 hrs

Nonthesis option

Required courses
CS  570 Thy Cmptn 1  3
   670 Thy Cmptn 2  3
   689 Res Methods  3
   690 Software Eng  3

21 hours of electives (including at least two 600-level courses, other than CS 699)

CS  527 Networks (3)
   530 System Prog (3)
   536 Database Dgn (3)
   538 Graphics (3)
   539 Curr Tpcs (3-6)
   545 Hum-Comp Int (3)
   555 Data Mining (3)
   556 Image Proc (3)
   557 Appl Cryptog (3)
   576 Op Systems (3)
   636 Adv Db Sys (3)
   638 Topics Graph (3)
   639 Seminar (3)
   642 Simulations (3)
   665 Ap Comp Geom (3)
   668 Graph Algo (3)
   675 Model Check (3)
   678 Compil Const (3)
   699 Read Honor (3)

MATHS  562 Numer Anls 1 (3)  12
   563 Numer Anls 2 (3)  12

12 hrs

DOCTOR OF EDUCATION (EdD and PhD)
WITH MAJOR IN COMPUTER SCIENCE

EdD program in science education and PhD program in philosophy in environmental science with computer science as the major area is available. See the Science listing on page 180 under the College of Sciences and Humanities for details.

COGNATE IN THEORY OF COMPUTING

This cognate is aimed at the EdD in science candidate who already has the background course work in computer science that is required.
of all candidates entering the master of science degree program in computer science, as well as the relevant mathematical background prerequisites to the program.

**Degree requirements**

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9 hrs

Electives (choose two courses for the 15-credit-hour cognate, or five courses for the 24-hour cognate.)

| CS   | 538 | Graphics (3)          |
|      | 555 | Data Mining (3)       |
|      | 557 | Appl Cryptog (3)      |
|      | 638 | Topics Graph (3)      |
|      | 639 | Seminar (3)           |
|      | 642 | Simulations (3)       |
|      | 665 | Ap Comp Geom (3)      |
|      | 675 | Model Check (3)       |
|      | 678 | Compil Const (3)      |
|      | 699 | Read Honor (3)        |
| MATHS | 562 | Numer Anls 1 (3)     |
|      | 563 | Numer Anls 2 (3)     |

6 or 15 hrs

Up to 9 hours of 500-level courses permitted on the 15-hour cognate; up to 12 hours of 500-level courses permitted on the 24-hour cognate.

A total of 9 hours of CS 699 may be earned for the 24-hour cognate and a total of 6 hours of CS 699 may be earned for the 15-hour cognate.

**PRE-MASTERS OF COMPUTER SCIENCE CERTIFICATE**

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**COMPUTER SCIENCE (CS)**

**515 Game Programming.** (3) An introduction to game programming. Topics include active and passive rendering, sprite animation, collision detection, audio playback, input devices, deployment, and applications of artificial intelligence.

*Prerequisite: CS 324.
Not open to students who have credit in CS 315.*

**517 Introduction to Programming.** (3) Software development using a high-level programming language (such as C++ or Java) for a wide range of information system applications. Structured programming, data types, functions, arrays, pointers, and recursion. Applications from areas of interest.

*Not open to graduate majors in computer science.*

**524 Design and Analysis of Algorithms.** (3) Topics include: analysis of algorithms; dynamic programming; probabilistic algorithms, examples of geometric, combinatorial and graph algorithms, pattern matching; introduction to NP-completeness. Hours do not apply to master's degree in computer science.

*Prerequisite: CS 121 or equivalent and either MATHS 161 or 165 or equivalent.*

**527 Internetworking.** (3) The hardware and software of computer networks and distributed processing. Develops the important design parameters and a general design methodology.

*Prerequisite: CS 324.*
530 System Programming. (3) Considers the
computer system from the points of view of its
architecture, operating system, and applications.
Topics include processor organization,
peripheral devices, I/O programming, system
programs, monitor services, file organization,
and real-time applications.
Prerequisite: CS 230.
Not open to students who have credit in CS
327.

535 Programming Languages. (3) Study of
principles of programming languages.
Emphasizes language paradigms and important
features, structures, characteristics, and formal
syntax of modern high-level programming
languages. Examples of languages in each
paradigm will be studied. Hours do not apply to
master's degree in computer science.
Prerequisite: CS 230 or equivalent.

536 Database Design. (3) An introduction to
database design, including physical
representation, modeling, database systems, and
implementation.
Prerequisite: CS 324.
Not open to students who have credit in CS
430.

538 Computer Graphics. (3) Methods of
developing, modifying, and rendering graphics
displays. Emphasizes the design and writing of
graphics software for both two- and three-
dimensional displays. Knowledge of a structured
high-level language is required.
Prerequisite: CS 324.
Not open to students who have credit in CS
436.

539 Current Topics. (3) In-depth study of a
topic taught in a seminar format. Topics will be
posted in the department before registration.
Prerequisite: CS 324, 335.
A total of 9 hours of credit may be earned,
but no more than 6 in any one semester or term.

545 Human-Computer Interaction. (3)
Investigation into the principles and practice of
user interface design, evaluation, and
implementation. Topics include user-centered
design, graphical user interface programming,
evaluation methods, and software architectures.
Prerequisite: CS 324.

547 Computer, Information, and Network
Security. (3) Topics include encryption,
decryption, protocols, viruses, network security,
authentication, legal and ethical issues, and
security in operating systems, databases, e-
commerce, Internet, wireless. Algorithms,
protocols, applications such as RSA, DES, SSL,
Firewalls, Digital Signatures, and VPNs, and
emerging topics will be explored.
Prerequisite: CS 121.

555 Data Mining. (3) Topics include data
preprocessing, clustering analysis, data
classification, mining association rules, data
mining and database, complex data mining, Web
mining, new application in data mining such as
intrusion detection and bio-informatics.
Prerequisite: CS 324.
Not open to students who have credit in CS
455.

556 Image Processing. (3) Project based,
dealing with basic principles of digital image
processing and computer vision. Topics: digital
image formats, geometric operations on digital
images, filtering, histogramming, binarization of
gray-scale images, labeling binary images,
perimeter and area determination, thinning
operations, object recognition using global
features, edge detection processes, and other
topics as time permits.
Prerequisite: CS 324.

557 Applied Cryptography. (3) Introduction of
basic principles and application of cryptography.
Topics include encryption, decryption, private
and public key systems, and their mathematical
foundation: divisibility and Euclidean
algorithms, arithmetic of congruences, and large
prime numbers. Projects are implementations of
related algorithms. LISP and JAVA are
recommended languages.
Prerequisite: CS 324.
570 Theory of Computation 1. (3)
Mathematical logic; alphabets and languages; finite automata, regular and nonregular languages, and Kleene’s theorem; regular grammars; pushdown automata and context-free grammars; Turing and Post machines; recursive and recursively enumerable languages; the Chomsky Hierarchy.
Prerequisite: CS 324 or permission of the instructor.
Not open to students who have credit in CS 470.

576 Operating Systems. (3) Investigate the functions and structure of computer operating systems, processors, and memory. Topics include process control, concurrency, scheduling, security, and file systems. Introduces topics in systems programming, including I/O programming, signals, and IPC.
Prerequisite: CS 230, 324.
Not open to students who have credit in CS 376.

597 Multitier Web Architectures. (3) Topics include n-tier architectures, data access and application logic layers, Web services, scalability, advanced XML, service-oriented architectures, object access protocols, and Web site administration and security. Projects will be used to reinforce concepts.
Prerequisite: CS 324.
Not open to students who have credit in CS 397.

614 (514) Web Programming. (3) Technical foundations for rich, interactive Web sites and current topics in Web programming. Client and server side Web programming to enable Web 2.0 applications.
Open only to non computer science graduate students.

616 (516) Digital Animation. (3) Introduces tools and skills needed to create digital animations. Students work with different development environments, techniques, interface designs, and audio/visual sequences.
Open only to non computer science graduate students.

629 Special Topics. (1-6) Special topics in computer science for non-CS graduate students. Topics will be posted by the department prior to registration.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

636 Advanced Database Systems. (3) Topics include knowledge representation and ontology concepts, object database concepts, database security and authorization, distributed databases, client-server architectures, Internet databases, and emerging database technologies and applications. Programming of both database techniques and application servers is based on current technologies such as ORACLE.
Prerequisite: CS 324.

638 Advanced Topics in Computer Graphics. (3) Topics will be chosen from current research areas in computer graphics and from advanced topics in classical computer graphics. Possible topics include fractals, ray tracing, animation techniques, and geometric modeling.
Prerequisite: CS 538.

639 Seminar in Computer Science. (3) Readings and conferences assigned in some particular problem or group of problems in computer science.
Prerequisite: CS 324, 335.

642 Simulation Techniques. (3) An introduction to the principles and applications of simulation. Use of higher-level languages and simulation languages as applied to system studies. Use of examples from different subjects to carry out simulation.
Prerequisite: CS 121; MATHS 221.

665 Applied Computational Geometry. (3) Topics such as algorithms for polygon triangulation, polygon partitioning and their applications, convex hulls in two and three dimensions and their applications, Voronoi diagrams and their applications, search and intersection algorithms, robot motion planning, and implementation of algorithms.
Prerequisite: CS 324 or permission of the instructor.
   *Prerequisite:* CS 324 or permission of the instructor.

670 Theory of Computation 2. (3) Computability and decidability; introduction to the theory of computational complexity; the classes P and NP; NP-completeness; examples of some NP-complete problems; nondeterminism and parallel computation; proving the correctness of programs.  
   *Prerequisite:* CS 570.

675 Model Checking. (3) Overview of formal verification techniques in software engineering; system modeling with automata; temporal logics; algorithms and techniques of model checking; study and use of model checkers such as SPIN; applications of model checking to critical systems in industry.  
   *Prerequisite:* CS 324, 335.

678 Compiler Construction. (3) Review of context-free grammars and basic parsing concept, compiler organization, and construction of components for a compiler.  
   *Prerequisite:* CS 570.

689 Research Methods. (3) Discussions on research areas in computer science, scientific methods of research, and dissemination of research. Requirements include presentations and written reports that demonstrate proficiency in presentation tools and techniques, statistical and experimental design techniques, and library and literature searches.  
   *Prerequisite:* 6 hours of CS graduate courses.

690 (697) Software Engineering. (3) Software engineering principles and concepts. The software life cycle, structured specifications, design tools and techniques, software reliability, and verifying program correctness.  
   *Prerequisite:* CS 324 and 3 computer science graduate courses or permission of the instructor.  
   *Not open to* students who have credit in CS 495.

691 Software Requirements and Design. (3) Methods, tools, and notations for requirements capture, analysis and design. Unified Modeling Language (UML), logic and algebraic specification, prototyping, use cases, domain modeling, software architecture, design patterns, refactoring, software reuse.  
   *Prerequisite:* CS 690.

692 Software Verification and Validation. (3) Concepts and techniques for testing software; unit, integration, system, and regression testing; test coverage, test case generation, tools for automated testing. Verification of nonfunctional properties.  
   *Prerequisite:* CS 690.

699 Reading and Honors. (3) Special advanced work not offered in other courses. Requirements include a final written report and a presentation in the departmental colloquium series.  
   *Prerequisite:* CS 324, 335; permission of the department chairperson.

   A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.  
   A total of 12 hours of combined CS 539, 639, and 699 credit may be earned.
CRIMINAL JUSTICE AND CRIMINOLOGY (CJC)

650 Criminal Justice Administration. (3) An examination of the study of the principles of administration of criminal justice agencies and the development of present and future criminal justice leaders.

651 Interpersonal Relations in Criminal Justice. (3) Exploration of interpersonal relationships in an agency context. Examines issues peculiar to criminal justice agencies, including cynicism, trauma, burnout, everyday stressors, authoritarian management structures and leadership styles, peer loyalty versus organizational loyalty versus public duty, and public relations.

652 Philosophical Aspects of Criminal Justice Practice. (3) Provides philosophical and moral bases for the establishment and operation of justice system agencies charged with enforcement of criminal codes and preservation of social order, including an overview of fundamental philosophical issues of justice-system practices.

690 Independent Study in Criminal Justice. (1-3) An opportunity to study specific topics related to the criminal justice system.

Prerequisite: permission of the instructor.
A total of 3 hours of credit may be earned.

ENGLISH

www.bsu.edu/english
Robert Bell Building 297, 765-285-8580

PROGRAMS

Master of arts (MA) in English (general, rhetoric and composition, creative writing, and literature), in linguistics, and in teaching English to speakers of other languages (TESOL); doctor of philosophy (PhD) in English (with concentration areas in literature, in rhetoric and composition, and in applied linguistics).

Cognates are available in composition, literary theory, literature, linguistics, TESOL, and English language arts.

MASTER OF ARTS IN ENGLISH (CREATIVE WRITING)

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, and submit Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), a statement of purpose (750-1000 words), portfolio of 20 pages of creative writing, and three letters of recommendation.

Degree requirements

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and/or
615  Screnwr Wkp (3-9) 3-9

Courses in literature  6
CRPRJ  698  Creat Proj (3 or 6)  6
Electives  6

33 hrs

MASTER OF ARTS IN ENGLISH
(GENERAL)

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, and submit Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), a statement of purpose (750-1000 words), examples of their scholarly or critical writing, and three letters of recommendation.

Degree requirements

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| Core requirements
| Approved courses in English | 15-29 |
| Research requirements
| ENG 601  Res Eng Stu (3) | 3 |
| or
| RES 606  Lit Theory 1 (3) | 3 |
| or
| RES 607  Lit Theory 2 (3) | 3 |
| 17-20 hours of approved graduate courses in literature including
| American literature | 6 |
| British and World literature
| Before 1660 | 3 |
| After 1660 | 3 |
| Approved literature electives | 5-8 |
| Research requirement
| RES 697  Research Ppr (1-3) | 3 |
| or
| THES 698  Thesis (1-6) | 3 |
| Electives | 0-3 |

32 hrs

MASTER OF ARTS IN ENGLISH
(LITERATURE)

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, submit Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), a statement of purpose (750-1000 words), examples of their scholarly or critical writing, and three letters of recommendation.

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| Core requirements
| ENG 601  Res Eng Stu (3) | 3 |
| or
| RES 606  Lit Theory 1 (3) | 3 |
| or
| RES 607  Lit Theory 2 (3) | 3 |
| 17-20 hours of approved graduate courses in literature including
| American literature | 6 |
| British and World literature
| Before 1660 | 3 |
| After 1660 | 3 |
| Approved literature electives | 5-8 |
| Research requirement
| RES 697  Research Ppr (1-3) | 3 |
| or
| THES 698  Thesis (1-6) | 3 |
| Electives | 0-3 |

32 hrs

MASTER OF ARTS IN ENGLISH
(RHETORIC AND COMPOSITION)

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, submit Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), a statement of purpose (750-1000 words), examples of their scholarly or critical writing, and three letters of recommendation.
(GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), a statement of purpose (750 to 1000 words), examples of their scholarly or critical writing, and three letters of recommendation.

Degree requirements

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Research requirements

| RES    | 697| Research Ppr (1-3)     |        |
|        |    | or                     |        |
| THES   | 698| Thesis (1-6)           | 3-6    |

Electives

5-11

32 hrs

ENG 601 may be waived for students who choose the nonthesis option.

MASTER OF ARTS IN LINGUISTICS

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, have the equivalent of at least two years of college-level study of foreign language (requirement can be met during MA program), and submit a statement of purpose (750 to 1000 words), Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), examples of their scholarly writing, and three letters of recommendation.

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Major requirements

ENG or the equivalent will be required but will not count towards required hours in the degree.

Directed electives (at least 15 hours from the following courses):

| ENG    | 622| His Eng Lang           | 3      |
|        | 625| Phonology              | 3      |
|        | 628| Lang Culture           | 3      |
|        | 629| Top Ap Ling            | 3      |
|        | 630| Contras Anls           | 3      |
|        | 631| Hist Linguis           | 3      |
|        | 632| Discrs Anls            | 3      |
|        | 682| Top Eng Ling           | 3      |
|        | 686| Top in Ling            | 15     |

Electives

(3 hours, an additional course from the directed electives or any of the following):

| ENG    | 624| Found S L A            | 3      |
|        | 684| Topics S L A           | 3      |
|        | 693| Writ in Prof           | 3      |

Research requirement

ENG and

| RES    | 697| Research Ppr (1-3)     |        |
|        |    | or                     |        |
| CRPRJ  | 698| Creat Proj (3 or 6)    | 3      |

36 hrs

Depending on the nature of the student’s research, the student may also be advised to take one or more courses in Experimental Design and Statistics in addition to other course work.
MASTER OF ARTS IN TEACHING
ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, have the equivalent of at least two years of college-level study of foreign language (requirement can be met during MA program), and submit a statement of purpose (750 to 1000 words), Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), examples of their scholarly writing, and three letters of recommendation.

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Research requirements

ENG 601 Res Eng Stu 3
RES 697 Research Ppr (1-3) or CRPRJ 698 Creat Proj (3 or 6) 3

36 hrs

Depending on the nature of the student’s research, the student may also be advised to take one or more courses in Experimental Design and Statistics in addition to other course work.

MASTER OF ARTS IN TEACHING
ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL) AND LINGUISTICS

Admission requirements

Applicants must meet the admission requirements of the Graduate School, have an undergraduate grade-point average (GPA) of at least 3.0, have the equivalent of at least two years of college-level study of foreign language (requirement can be met during MA program), and submit a statement of purpose (750 to 1000 words), Graduate Record Examination (GRE) scores (required for native speakers of English) or Test of English as a Foreign Language (TOEFL) scores (required for nonnative speakers of English), examples of their scholarly writing, and three letters of recommendation.

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Directed electives

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Research requirements

ENG 601 Res Eng Stu 3
RES 697 Research Ppr (1-3) or CRPRJ 698 Creat Proj (3 or 6) 3

36 hrs

Depending on the nature of the student’s research, the student may also be advised to take one or more courses in Experimental Design and Statistics in addition to other course work.
Directed electives (at least 15 hours from the following courses):

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Research requirements

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<td>RES</td>
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<td>CRPRJ</td>
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45 hrs

Depending on the nature of the student’s research, the student may also be advised to take one or more courses in Experimental Design and Statistics in addition to other course work.

DOCTOR OF PHILOSOPHY (PhD) IN ENGLISH

Concentration in Applied Linguistics

Admission requirements

Applicants to the PhD in English with a concentration in applied linguistics must hold an earned master’s or equivalent degree and meet the admission requirements of the Graduate School, submit a statement of purpose (750 to 1000 words), graduate grade-point average (GPA) of at least 3.3 (preferably 3.5), cumulative GRE general scores (required for native speakers of English) or (for nonnative speakers of English) cumulative TOEFL scores of at least 575 (or equivalent), and submit examples of their scholarly or critical writing and three letters of recommendation. Before writing comprehensive examinations, candidates must demonstrate competence in two foreign languages, other than English, relevant to their research.

Degree requirements

The PhD in English with a concentration in applied linguistics requires a total of 48 graduate hours and a dissertation (with 10 associated hours to be taken at Ball State). Up to 32 hours from the masters degree may be applied to the total of 90 hours for the doctoral degree. Students may elect to take one or more cognates in an appropriate department or university area. ENG 520 Introduction to Linguistics and a graduate research course are prerequisites to the program. Students who have not taken them or done equivalent work must take ENG 520 or an additional 3 hours of ENG 601, but these courses will not be included in the 48 hours of course work required for graduation.

Transfer credit (up to) 32

Required core courses

Students must complete the following four courses as early as possible in the program.

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At the end of the first year of doctoral study, doctoral students will undergo a review to determine their fitness to continue in the program. This review will examine their academic and professional performance to this point in the doctoral program. Details regarding this review will be outlined during the fall semester each year, and the due date for review materials will be set. Students will have at least one month to prepare the materials to be turned in at some point during the spring semester. Students who are not advanced will be permitted to complete a master’s degree but will not be permitted to continue in the doctoral program.

Directed electives
Students must choose at least 18 hours from the following courses. Students may be advised to take one or more courses in Experimental Design and Statistics in addition to other course work.

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Electives  15

Research requirement

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<td>ENG 601</td>
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90 hrs

Concentration in Literature

Admission requirements

Applicants for the PhD in English with a concentration in literature must hold an earned master’s or equivalent degree, meet the admission requirements of the Graduate School, and submit a statement of purpose (750 to 1000 words), Graduate Record Examination (GRE) scores of at least 550 on verbal aptitude (preferred), a graduate GPA of at least 3.3 (preferably 3.5), examples of their scholarly or critical writing, and three letters of recommendation. Nonnative speakers of English may substitute TOEFL scores for the GRE aptitude test. In addition, all applicants for the concentration in literature must submit scores for the GRE subject test in literature of at least 550 (preferred).

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3 hours in each of the following areas:
- American Literature
- British Literature to 1500;
- British/American literature 1500-1700;
- British/American literature 1700-1800;
- British/American literature 1800-1900;
- Literature 1900-present.  15

One course in one of the following areas:
- American ethnic studies
- Gender studies
- International studies  3

Directed electives

At least 15 hours of electives in courses chosen in consultation with advisor.  15

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90 hrs

Concentration in Rhetoric and Composition

Admission requirements

Applicants for the PhD in English with a concentration in rhetoric and composition must hold an earned master’s or equivalent degree, meet the admission requirements of the Graduate School, and submit a statement of purpose (750 to 1000 words), GRE score of at least 550 (preferred) on verbal aptitude, a graduate GPA of at least 3.3 (preferably 3.5), examples of their scholarly or critical writing, and three letters of recommendation. Nonnative speakers of English may substitute TOEFL scores for the GRE scores.

Degree requirements
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3 (rhetoric and composition) hours in each of the following areas:
Rhetorical History
Digital Literacies
Research Methodologies 9

9 additional hours directed electives
in one of the three areas of emphasis 9

Electives 9

Course work from Master’s degree
or equivalent 32
DISS 799 Drs Dissert (1-24) 16

90 hrs

DOCTORAL COGNATE IN LITERARY THEORY

See the department for information regarding course selection.

For purposes of advising, enrollment in all graduate courses in the Department of English requires permission of the department.

ENGLISH (ENG)

520 Introduction to Linguistics. (3) Basic concepts, scope, and methodology of the science of language.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in ENG 320.

588 English Studies Abroad. (3-6) English studies at approved study abroad sites. Credit applied to department requirements as approved by the department chairperson.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

601 Research in English Studies. (3) Research methods in composition, English education, language and linguistics, and/or literature.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

602 English Internship. (1-6) Supervised work experience appropriate for English graduate students. Assignments may be part-time or full-time, paid or unpaid, for one or more semesters in approved businesses or organizations.

Prerequisite: permission of the internship coordinator or department chairperson.

A total of 6 hours of credit may be earned. A maximum of 3 hours may apply as elective credit toward the MA or PhD in English.

603 Independent Study. (1-3) Independent study and research in composition, creative writing, English education, language and linguistics, or literature.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

604 Teaching with Technology. (3) Theory and practice of using major technologies in the teaching of English; primary emphasis on postsecondary level. Focuses on practical activities related to planning and carrying out text-intensive teaching with technology.

Prerequisite: permission of the department chairperson.

605 Teaching in English Studies. (3) Instruction and, where appropriate, close supervision in pedagogical theory and practice and other proficiencies and skills required for success in university teaching.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.
606 Literary Theory 1. (3) Critical theory through New Criticism and its application to selections from the various forms of literature.

Prerequisite: permission of the department chairperson.

607 Literary Theory 2. (3) Contemporary critical theory and its application to selections from the various forms of literature.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

608 Seminar in Theory. (3) Topics in theory. Advanced study of the work of specified theorists or in specified theoretical paradigms.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

609 Indiana Writing Project. (1-6) Training in writing, research, and teaching according to the National Writing Project model. Taught by the Indiana Writing Project (IWP) director or codirector assisted by teacher consultants. Applies to a degree only with the department chairperson’s permission. The course is not intended to substitute for certification or degree requirements.

Prerequisite: permission after application to the IWP director.

A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.

610 Reading and Writing Across the Genres. (3) A comprehensive introduction to graduate creative writing, with study and practice of the forms and techniques of fiction, poetry, and creative nonfiction.

Prerequisite: permission of the department chairperson.

612 Workshop in Fiction Writing. (3) Instruction, practice, and criticism in a workshop format.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

613 Workshop in Poetry Writing. (3) Instruction, practice, and criticism in a workshop format.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

614 Practicum in Literary Editing. (3) History and philosophy of literary publishing, with practical experience in editorial work and production in print and electronic formats.

Prerequisite: permission of the department chairperson.

615 Workshop in Screenwriting. (3) Instruction, practice, and criticism in screenwriting in a workshop format.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

616 Introduction to Theories of Language Learning. (3) Psychological, sociocultural, and linguistic basis of language learning; research and theoretical perspectives related to second language teaching.

Prerequisite: knowledge of a foreign language; permission of the department chairperson.

Prerequisite or parallel: ENG 520 or equivalent.

617 Methods for Teaching English Language Learners. (3) Study and practice of a variety of methods in teaching English language learners in second or foreign language settings.

Prerequisite: permission of the department chairperson.

Prerequisite or parallel: ENG 520 or equivalent.
618 Materials Development for Teaching English Language Learners. (3) Focus on the use and design of materials to meet the specific needs of language learners at various levels of proficiency in second and foreign language settings.

Prerequisite: permission of the department chairperson.
Prerequisite or parallel: ENG 520 or equivalent.

620 Linguistics and the Study of English. (3) An introduction for nonspecialists to areas of linguistics pertinent to the study and teaching of English literature and composition.

Prerequisite: permission of the department chairperson.

621 Meaning and Structure in English. (3) An integrated study of the syntax, semantics, and pragmatics of the English language. Introduces key concepts in syntactic, semantic, and pragmatic analysis, and focuses on aspects of English lexical and grammatical structure most problematic in the teaching of English as a second/foreign language.

Prerequisite: ENG 520; permission of the department chairperson.

622 History of the English Language. (3) History of the development of the phonological, morphological, lexical, and syntactical systems of the English language from its beginnings to the present day.

Prerequisite: permission of the department chairperson.

623 Phonetics and Phonology. (3) Speech sounds and the linguistic methods employed in their description, classification, and analysis as elements in language systems. Relationships among speech sounds in a language.

Prerequisite: permission of the department chairperson.

624 Foundations of Second Language Acquisition. (3) Covers the foundations of second language acquisition theories and research, and introduces various issues related to second language learning and teaching.

Prerequisite: ENG 616, 617; permission of the department chairperson.

625 Phonology. (3) General characteristics of speech sounds and of the systematic relationships they exhibit in natural languages. Emphasizes current research in generative phonology.

Prerequisite: ENG 623; permission of the department chairperson.

626 Morphology and Syntax. (3) A detailed examination of the patterns of word and phrase building in natural languages. Emphasizes both formal and functional approaches.

Prerequisite: ENG 520; permission of the department chairperson.

627 Sociolinguistics. (3) Examines the correlation of linguistic variation with geographic areas and social variables such as sex, age, socioeconomic status, and ethnicity.

Prerequisite: ENG 320 or 520; permission of the department chairperson.

628 Language and Culture. (3) Examines the ways members of different cultures organize and exploit their linguistic resources. Topics include registers and forms of address, verbal art, conversational strategies, code-switching, language maintenance and death, and cross-cultural miscommunication.

Prerequisite: permission of the department chairperson.

629 Topics in Applied Linguistics. (3) Intensive study of a selected topic or closely related set of topics relevant to applied linguistics. May be repeated if the topic changes.

Prerequisite: ENG 520 or equivalent; 9 additional hours in applied linguistics or permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

630 Contrastive Analysis. (3) Study of language universals and comparison of the structural systems of natural languages.

Prerequisite: ENG 520, 621; knowledge of a foreign language; permission of the department chairperson.
631 Historical Linguistics. (3) Scientific study of the process of linguistic change. A survey of the methods and principles used in historical and comparative linguistic analysis.

Prerequisite: ENG 623, 625; permission of the department chairperson.

632 Discourse Analysis. (3) A detailed examination of the principal methods of analyzing oral and written discourse.

Prerequisite: ENG 520 or 621; permission of the department chairperson.

633 Practicum in Teaching English to Speakers of Other Languages. (1-6) Practical experience related to the teaching of English as a second or foreign language.

Prerequisite: permission of the department chairperson.

Parallel: ENG 616 or 617.

A total of 6 hours of credit may be earned.

640 Studies in American Authors. (3) Focused study of the works and lives of selected American authors.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

641 Early American Literature. (3) Examination of selected literary works written through 1830. Attention will also be given to cultural, political, and intellectual contexts and to current scholarship on the period.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

642 Literature of the American Renaissance. (3) Examination of literary works written from 1830 to 1865. Attention will also be given to cultural, political, and intellectual contexts, and to current scholarship on the period.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

643 American Realism and Naturalism. (3) Examination of selected literary works from the middle of the nineteenth century into the earliest part of the twentieth century. Considers authors, their work, their philosophies of art, and current scholarship on the period.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

644 Early Twentieth-Century American Literature. (3) Examination of literary works and intellectual and aesthetic movements during the first half of the twentieth century. Attention will be given to cultural, political, and intellectual contexts and to current scholarship on the period.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

645 Contemporary American Literature. (3) Examination of literary works from 1945 to the present.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

646 Studies in American Ethnic Literature. (3) Study of literary works that express the experiences and cultures of American population groups whose voices have not been adequately represented in the literary and social mainstream.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

647 African American Literature. (3) Examines African American literature focusing on the role of vernacular speech and music; the social status of African Americans and their relations with other racial groups; the connections between race, class, gender, and sexuality; and relevant literary criticism and theory.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

650 Seminar in Literature. (3) Special topics in literature. Advanced study of a time period, form, nation, and/or specific issue or problem in literary studies.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

651 Studies in the Novel. (3) Special topics in the novel. Advanced study of a time period, form, nation and/or specific issue or problem.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

652 Studies in Poetry. (3) Special topics in poetry. Advanced study of a time period, form, nation and/or specific issue or problem.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

653 Studies in Drama. (3) Special topics in drama. Advanced study of a time period, form, nation and/or specific issue or problem.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

654 Film Studies. (3) Investigation of theoretical and critical approaches to the cinematic text, which may include studies of language, form, history, reception, narrative, culture, ideological formation, technological innovation, and representation.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

655 Gender Studies. (3) Exploration of issues in gender theory, which may include studies of power, language, literature, culture, identity, sexuality, representation, and pedagogy, as well as interdisciplinary connections to other political and philosophical theories of race, class, gender, ethnicity, and nationality.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

656 Cultural Studies. (3) Investigation of cultural studies as it relates to specific texts, social themes, and issues.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

657 Post-Colonial Studies. (3) Focused study of post-colonial literature and literary theory.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

659 Workshop in Literature. (3-9) Specific themes or specific units of American, British, or world literature. Stresses both the cooperative efforts of participants and faculty and the critical approaches to literature that are most useful in reading and teaching the literature.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned.

660 Studies in British Authors. (3) Focused study of the works and lives of selected British authors.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

661 Early British Studies. (3) Intensive study of early British literature emphasizing language, sources, structure, and significance of the works. Aspects of early culture pertinent to the works will be considered.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

662 Renaissance and Seventeenth-Century Studies. (3-6) Study of selected works of English literature of the Tudor, Stuart, and Puritan periods (1485-1660).
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

663 Studies in Shakespeare. (3) Study of major Shakespearean dramas and major Shakespearean criticism. Some attention given to the sonnets.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

664 Studies in English Literature of the Restoration and Eighteenth Century. (3) An extensive study of the nondramatic works of Dryden, Swift, Pope, and Johnson, with possible supplementary readings from other British authors of the period 1660-1800.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

665 Romantic Studies. (3) Examination of literary works from the Romantic period. Attention given to the cultural and intellectual contexts of the period as well as current scholarship relevant to the period.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

666 Victorian Studies. (3) Examination of literature of the Victorian period. Attention given to cultural and intellectual contexts and to the current scholarship relevant to the period.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

668 Early Twentieth-Century British Literature. (3) Focused study of selected works in early-twentieth-century British literature and culture.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

669 Contemporary British Literature. (3) Focused study of selected works in contemporary British literature and culture.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

670 Seminar in English Education. (3-9) Investigations of special topics related to the teaching of English.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned.

671 Reading Texts in the English Classroom. (3) Emphasizes current theoretical and research bases for effective reading of texts in the English classroom.
Prerequisite: permission of the department chairperson.

672 Workshop in English Language Arts. (3-9) A study of the objectives, materials, and teaching techniques employed at the various levels of English language arts instruction with emphasis on application to specific classroom situations. Course content and requirements designed to meet individual needs and interest.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned.

673 English Language and Grammar in the Schools. (3) An introduction to the scientific study of the English language. The relation of contemporary language description and research to the teaching of English skills in the schools.
Prerequisite: permission of the department chairperson.
674 Teaching English Language Arts in the Elementary Grades. (3) A critical review of trends and issues and their implications for the teacher in the elementary grades. 
Prerequisite: permission of the department chairperson.

675 Teaching Writing in Secondary Schools. (3) Advanced pedagogy, theory, research, and current issues in teaching writing, language, and visual representation, along with the use of performance assessments in the English Language Arts classroom. 
Prerequisite: permission of the department chairperson.

676 Teaching Literature, Speaking and Listening in Secondary Schools. (3) Advanced pedagogy, theory, research, and current issues in teaching literature, speaking, and listening in the English Language Arts classroom. 
Prerequisite: permission of the department chairperson.

677 Literature for Young Children. (2) Appraisal of literature for young children. Of special interest to students of early-childhood education. 
Prerequisite: permission of the department chairperson.

678 Children’s Literature. (3) Overview of the field of children’s literature and intensive study of the various genres. Includes study of theoretical issues, research, and recommended practice in teaching children’s literature along with the study of a sampling of recently published children’s books. 
Prerequisite: permission of the department chairperson.

679 Young Adult Literature. (3) Recent literature suitable for students of varying abilities in junior high/middle and secondary schools. Emphasizes the actual reading of selections with some attention given to methodology. 
Prerequisite: permission of the department chairperson.

Not open to students who have credit in ENG 414.

Prerequisite: permission of the department chairperson.

681 Reading in English Language Arts Education. (3) A critical review of significant research in English education and its implications for teaching English in the schools. 
Prerequisite: permission of the department chairperson.

682 Topics in English Linguistics. (3) Intensive study of a selected topic or closely related set of topics relevant to English linguistics. 
Prerequisite: ENG 520 or equivalent; permission of the department chairperson. 
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

684 Topics in Second Language Acquisition. (3) Intensive study of a selected topic or closely related set of topics relevant to Second Language Acquisition. 
Prerequisite: ENG 520 or equivalent; ENG 616; permission of the department chairperson. 
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

686 Topics in Linguistics. (3) Intensive descriptive, theoretical, or applied study of a selected topic or closely related set of topics relevant to linguistics and any of the world’s languages. 
Prerequisite: ENG 520 or equivalent; permission of the department chairperson. 
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

690 Seminar in Composition. (3) Special research problems in English composition using recognized techniques of research, extensive readings in selected texts, group discussions, and conferences.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned.

691 Advanced Composition. (3) Principles of and practice in the writing and evaluation of expository prose. Intended for teachers of English at the elementary, secondary, and college levels.
Prerequisite: permission of the department chairperson.

692 Writing Technologies. (3) Examination of relationships among literacy, technology, and English studies. Includes a historical approach to literacy, with major attention to how past and present technologies of literacy affect culture and education. Will explore issues and practices in laboratory sessions.
Prerequisite: permission of the department chairperson.

693 Writing in the Profession. (3) Directed writing in some of the modes required in the academic profession of English studies, with a view toward producing effective, publishable prose.
Prerequisite: permission of the department chairperson.

694 Classical Rhetoric. (3) A survey of the history and development of classical rhetoric in English composition. Special research problems in the explication of standard literary texts from a classical rhetorical perspective. Extensive readings in selected texts, some in translations from Latin and Greek.
Prerequisite: permission of the department chairperson.

695 Medieval and Early Modern Rhetoric. (3) A survey of Western rhetorical theory and practice from the fifth into the seventeenth century. Offers insight into the vocation and impact of rhetoric in the medieval and early modern period, with emphasis on implications for literacy and education.
Prerequisite: permission of the department chairperson.

696 Nineteenth-Century Rhetoric. (3) Survey of the nineteenth-century theories of composition that established the roots of contemporary teaching practices. Special research problems from a nineteenth-century rhetorical perspective using recognized techniques of research, extensive readings in selected texts, group discussions, and conferences.
Prerequisite: permission of the department chairperson.

697 Contemporary Rhetoric. (3) Overview of major contemporary rhetorical theories and practice, focusing on several major rhetoricians and recent developments in the field. Special research problems using recognized techniques of research, extensive reading in selected texts, group discussions, and conferences.
Prerequisite: permission of the department chairperson.

698 Rhetoric and Poetics. (3) Covers identification and theories of poetics in all genres. Includes classical schemes and tropes and contemporary theories about epistemology and figures of speech. Surveys Aristotle’s poetics through contemporary criticism.
Prerequisite: permission of the department chairperson.

699 Contemporary Theories of Composition. (3) Focuses on theories of writing prominent during the past hundred years, contextualizing those theories in terms of history, political movements, theoretical milieux, and educational changes. Connections made to similar shifts in perspective across the academic landscape.
Prerequisite: permission of the department chairperson.

701 Independent Study. (1-3) Intensive study of a topic in literature, composition, or linguistics not ordinarily addressed in a regularly scheduled course. Intended to prepare doctoral students on a tutorial basis to research and develop an original dissertation topic.
Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.
729 Advanced Topics in Linguistics. (3)
Intensive advanced study of a selected topic or closely related set of topics relevant to linguistics and applied linguistics.

Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

GEOGRAPHY

www.bsu.edu/geog
Cooper Life Science Building 425, 765-285-1776

MASTER OF SCIENCE (MS) IN GEOGRAPHY

This program is designed to provide a solid background in skills such as remote sensing, GIS, and advanced cartography to be applied to various sub-disciplines of geography and allied fields. The demands for skilled work force in these fields continues to expand in industries, business, and government, both locally and nationally. The Internet has paved the way for different types of archived and present data to be available to the public and government in a timely manner. With globalization, employers are looking for people who are skilled in the above fields. An intricate combination of several factors such as growing and changing world economy, changing environment, mobility of multinational corporations, and data availability through various sources have created a major demand for remote sensing and GIS techniques. The specialized courses in remote sensing, GIS, and advanced cartography are designed for students who are interested in handling various types of spatial data.

The Department of Geography is equipped with leading software in remote sensing, GIS and cartography. The department’s experienced faculty members can accommodate the needs of students with varied interests.

Admission requirements
Applicants must meet the admission requirements of the Graduate School.

Degree requirements
Requires 30 hours including the research requirement. Undergraduate deficiencies must be fulfilled as needed. Specialized programs apply state-of-the-art technologies such as remote sensing, geographic information systems, and advanced cartography in various subdisciplines of geography, atmospheric science, and allied sciences. The requirements are flexible and allow students to arrange programs of study that will serve as a basis for further graduate study; as preparation for positions in industry, business, and government; or as a way to meet the immediate and changing needs of teachers and educators.

Course requirements
All students must complete 9 semester hours of core courses, 15 semester hours of directed electives, and 6 semester hours of Thesis (THES 698).

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Directed electives, 15 hours

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542 Intr Rem Sen (3)
543 Adv Rem Sens (3)
544 Adv GIS Anly (3)
545 GIS App Desg (3)
546 Sem Rem Sen (3)
547 Thermo Meteo (3)
548 GIS Sys Desg (3)
549 Synop Meteor (3)
550 Sev Loc Stor (3)
551 Dynamic Mete (3)
570 World Pol Ge (3)
590 F Obs Sev LS (6)
614 Prob Tch ES (3-6)
620 Seminar Geog (3)
625 Spl Tps GIS (3-6)
630 Spl Tps Cart (3-6)
635 Spl Tps R S (3-6)
640 Spl Tps Atmo (3)
680 D A Field St (1-6)
690 Prof Intern (1-3)
695 Rdgs Sp Stud (1-3)  15

Thesis requirement
THES  698  Thesis (1-6)  6

30 hrs

MINOR IN GIScience

PREFIX NO  SHORT TITLE  CR HRS

Core requirements, 6 hours
GEOG   542  Intr Rem Sen  3
444  Adv GIS Anly  3

9 hours from
GEOG   543  Adv Rem Sens (3)
545  GIS App Desg (3)
546  Sem Rem Sen (3)
548  GIS Sys Desg (3)
625  Spl Tps GIS (3-6)
635  Spl Tps R S (3-6)  9

15 hrs

GEOGRAPHY (GEOG)

525 Physical Meteorology. (3). Study of the physical processes of the atmosphere with a focus on solar and terrestrial radiation, clouds, and precipitation.

Prerequisite: GEOG 330 or 530; MATHS 165; PHYCS 120 or permission of the instructor.

Not open to students who have credit in GEOG 425.

530 Weather Analysis. (3) Presentation and practice of synoptic- and meso-scale diagnostic analysis techniques, including a review of satellite and radar remote sensing systems and image interpretation. Introduction to numerical weather prediction.

Prerequisite: GEOG 230 or equivalent.

531 Global Climate. (3) Introduction to the dynamics of the global climate system. Emphasizes the physical processes that force spatial variability in climate, and the feedback mechanisms associated with global teleconnections and climate change.

Prerequisite: GEOG 330 or 530.

532 Climate Change and Modification. (3) Study of the variability of climate over time and space, and factors involved. Focuses on past climates, modeling of future climates, and modification at local or microscale.

Prerequisite: GEOG 230 or permission of the instructor.

Not open to students who have credit in GEOG 332.

534 Atmospheric Hazards. (3) Examination of the causes, consequences, and spatial distribution of hazards deriving from or impacting the atmosphere. Both the physical properties and processes of natural hazards (e.g. hurricanes, tornadoes, biochemical) and the human actions and reactions to these hazards will be emphasized at the local, regional, and global scales.

Prerequisite: GEOG 101 or GEOL 101 or permission of the instructor.

Not open to students who have credit in GEOG 334.

535 Satellite and Radar Meteorology. (3) Study of the platforms and sensors of satellite and radar remote sensing systems used in meteorology and climatology. Emphasis is on
satellite and radar products and their interpretation.

Prerequisite: GEOG 330 or 530; MATHS 165; PHYCS 120; or permission of the instructor.

Not open to students who have credit in GEOG 435.

540 Cartography and Visualization of Spatial Data. (3) Introduction to cartographic methods for the visualization and analysis of geographic phenomena. Principles of design are stressed with particular emphasis on methods for symbolizing point, line, and area elements, and the principles and use of color in cartography. Students produce publication quality maps using an industry standard software.

Not open to students who have credit in GEOG 340.

542 Introduction to Remote Sensing. (3) Principles of remote sensing and its applications on Earth resources. Topics include the physics of remote sensing, aerial photo interpretation, photogrammetry, multispectral, hyperspectral, thermal infrared remote sensing, RADAR/LIDAR, remote sensing of vegetation, water, and soils.

Not open to students who have credit in GEOG 342.

543 Advanced Remote Sensing. (3) Digital image processing techniques utilized to analyze remotely sensed data. Topics include remote sensing data collection, image pre-processing, image enhancement, image classification, post classification analysis, and multi-temporal data analysis for change detection.

Prerequisite: GEOG 542.

Not open to students who have credit in GEOG 343.

544 Advanced Geographic Information Systems Analysis. (3) Examination and use of analysis techniques in Geographic Information Systems (GIS). Introduction to basic GIS programming. Diagramming GIS logic and processing flows. Exposure to widely used GIS data models.

Prerequisite: GEOG 240, 265; or permission of the instructor.

Not open to students who have credit in GEOG 344.

545 Geographic Information Systems Applications Design and Development. (3) Fundamentals of geographic information system (GIS) programming. Develop and implement customized GIS applications. Exposure to widely used GIS software-programming environments.

Prerequisite: GEOG 265, 544; or permission of the instructor.

Not open to students who have credit in GEOG 445.


Prerequisite: GEOG 542, 543; or permission of the instructor.

Not open to students who have credit in GEOG 443.

547 Thermodynamic Meteorology. (3) Application of physical gas laws such as the equation of state and hydrostatic equation to investigate adiabatic processes and parcel theory as they relate to atmospheric instability and connective development.

Prerequisite: GEOG 330 or 530; MATHS 165, 166; PHYCS 120, 122 or permission of the instructor.

Not open to students who have credit in GEOG 447.


Prerequisite: GEOG 544.

Not open to students who have credit in GEOG 448.
549 Synoptic Meteorology. (3) Investigation of synoptic- and meso-beta-scale atmospheric systems, with a focus on analysis and forecasting through the use of satellite, radar, and numerical weather prediction technology. 
Prerequisite: GEOG 330 or 530; MATHS 165; PHYCS 120 or permission of the instructor.
Not open to students who have credit in GEOG 449.

550 Severe Local Storms. (3) Survey of severe thunderstorms and tornadoes. Focuses on storm processes and the forecasting of severe local storm events. 
Prerequisite: GEOG 330 or 530.

551 Dynamic Meteorology. (3) Study of the variables that explain four-dimensional atmospheric behavior with primary focus on synoptic-scale processes. Special attention is given to the governing equations and associated approximation and assumption relevant to numerical weather prediction. 
Prerequisite: GEOG 330 or 530; MATHS 165, 166; PHYCS 120, 122 or permission of the instructor.
Not open to students who have credit in GEOG 451.

570 World Political Geography. (3) Analysis of the contribution of physical and cultural characteristics of the nations of the world to foreign relations problems. 
Not open to students who have credit in GEOG 470.

590 Field Observation of Severe Local Storms. (6) Field trip to the Great Plains region to observe severe local storms. Begins with two three-hour, on-campus lecture periods, followed by a four-week period of field observation, then concludes with three two-hour, on-campus trip-review lectures. 
Prerequisite: permission of the instructor.

610 History of Geographic Thought. (3) Focuses on the role of geography in the evolution of the physical and social sciences. Traces paradigms from the premodern period of geography through its emergence as an academic discipline to its present-day applications and theory.

614 Problems in the Teaching of Earth Science. (3-6) Primarily for experienced teachers: discussion and solution of problems teachers have had in teaching the concepts of earth science, physical geography, and geology. 
A total of 6 hours of credit may be earned.

615 Research Methods in Geography. (3) Examination of research-related topics relevant to first-year graduate study in geography. Focuses on use of the scientific method in solving geographic problems, although topics such as ethics, integrity, professionalism, philosophy, research project designs, and professional presentations are covered.

618 Quantitative Methods in Geography. (3) A study of quantitative techniques used in geographic research that focus on the solution of spatial problems. Emphasizes geographic and spatial data, geographic research inferences, point pattern analysis, areal association, and factor analysis in geography. 
Prerequisite: MATHS 221 or equivalent.

620 Seminar in Geography. (3) Small group discussion of geographic problems selected by instructional staff and depending on students’ interest. 
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term. Open only to majors in geography and related fields.

625 Special Topics in GIS. (3) Topics chosen from current research areas in applied GIS and from advanced topics in GIS data representation. Possible topics include advanced spatial models and object modeling with geodatabases. 
Prerequisite: GEOG 544, 545; or permission of the instructor.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

630 Special Topics in Advanced Cartography. (3) Advanced study exploring contemporary research in cartographic techniques and production. Topics include trends in
cartographic research, academic and commercial sources of cartographic information, and the impact of information technology. Topics vary depending on the needs of the students.  
Prerequisite: GEOG 340 or 540 or equivalent.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.  
Open only to geography majors.

635 Special Topics in Remote Sensing. (3) Research in remote sensing using advanced techniques applied to a field of study such as land use, vegetation, climatology, agriculture, or environmental problems. Research activities are accompanied by presentations on advanced remote-sensing topics.  
Prerequisite: GEOG 542, 543.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

640 Special Topics in Atmospheric Science. (3) The study of a topic in atmospheric science within the expertise of the instructor. Examples include such areas as land-surface-atmosphere interactions, meso-scale meteorology, hydroclimatology, climate change, and tropical weather and climate.  
Prerequisite: GEOG 530.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Open only to majors in geography and related fields.

653 Geography of Indiana. (3) A geographic examination of the physical, cultural, and economic diversity of the state. Field experience with assigned projects supplements classroom activities.

680 Distant Areas Field Studies. (1-6) Physical, economic, and cultural geography in areas distant from the campus. Includes seminars arranged during travel.  
Prerequisite: permission of the department chairperson.
A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.  
Open only to students in geography, earth science, and allied subjects.

690 Professional Internship. (1-3) Paid or unpaid supervised field and laboratory experience in public or private agencies.  
A total of 3 hours of credit may be earned.

695 Readings and Special Studies in Geography. (1-3) Special assigned studies in various sub-fields of geography including readings and research projects.  
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

GEOLOGICAL SCIENCES

www.bsu.edu/geology
Fine Arts Building 117, 765-285-8270

PROGRAMS

Master of arts (MA) and master of science (MS) in geology and master of arts (MA) in GIScience; the latter is cooperative with the Department of Geography.  
See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and have cumulative undergraduate grade-point averages (GPA) of at least 2.75 overall or 3.0 for their junior and senior years and Graduate Record Examination (GRE) scores of at least 470 verbal, 530 quantitative, and 520 analytical (or an acceptable combination of GPA and GRE scores). Candidates must have completed
acceptable geology field courses as undergraduates or must complete a Ball State field course as part of the master’s requirements.

**MASTER OF ARTS IN GEOLOGY**

**Degree requirements**

 Requires 30 hours of graduate courses, and passing the following National Association of State Boards of Geology (ASBOG) tests: the Fundamentals of Geology Examination and the Practice of Geology Examination. Each student must register for the 1-credit Research Colloquium during each Fall and Spring Semester of full-time graduate study.

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Approved major or minor in a second discipline or GEOL and/or other approved electives 9

30 hrs

**MASTER OF SCIENCE IN GEOLOGY**

**Degree requirements**

 Requires 30 hours of graduate courses. Each student must register for the 1-credit Research Colloquium during each Fall and Spring Semester of full-time graduate study, and write a thesis, which fulfills 6 hours of the 30-hour requirement. In a normal course of study, students are required to determine the thesis topic by the end of the second semester. The completed thesis document is subject to approval by the committee following a public oral defense.

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Approved major or minor in a second discipline or GEOL and/or other approved electives 9

30 hrs

**GEOLOGY (GEOL)**

500 **Research Colloquium.** (1) Presentations on geological science research topics by faculty, students, and visiting professional speakers. Enrolled by every departmental graduate degree candidate, each semester in residence.

A total of 8 hours of credit may be earned, but no more than 1 in any one semester or term.

502 **Global Positioning System Techniques.** (1) Global Positioning System (GPS) surveying and mapping techniques. Overview of satellite and system technology, examination of various GPS units available for applications, techniques using units individually or in combination for mapping and navigation, differential GPS methods, use in computer-generated maps.

Prerequisite: permission of the department chairperson.
A total of 3 hours of credit may be earned, but no more than 1 in any one semester or term.

508 Sedimentary Geology. (3) An introduction to the study of sedimentary rocks and processes. Sedimentary rock description, depositional environments, and the application of stratigraphic methods. Regularly scheduled laboratory and a field trip.

Prerequisite: GEOL 201 or permission of the department chairperson.

Not open to students who have credit in GEOL 308.

509 Micropaleontology. (3) Morphology, classification, preparation techniques, and evolution of paleontologically significant microfossil groups and their biostratigraphic and paleoecologic significance. Emphasizes foraminifera, conodonts, and ostracodes. Regularly scheduled laboratory. Includes an immersion experience.

Prerequisite: GEOL 508 or permission of the department chairperson.

Not open to students who have credit in GEOL 409.

510 Igneous and Metamorphic Petrology. (3) Origin and description of igneous and metamorphic rocks. Incorporates information on recent advances in our understanding of these rocks. Provides an overview of the field of petrology and a solid foundation for more advanced studies.

Prerequisite: GEOL 220 or permission of the department chairperson.

Not open to students who have credit in GEOL 310.

512 Sedimentary Petrology. (3) A petrographic approach to the classification and genetic interpretation of sedimentary rocks. Terrigenous sandstones and carbonate rocks will be emphasized with lesser stress on mud rocks and noncarbonate chemical rocks.

Prerequisite: GEOL 201, 220, 310, or permission of the department chairperson.

Not open to students who have credit in GEOL 412.

516 Geology of Hazards and the Environment. (3) Applied geology for hazard and environmental problems. Properties and mechanics of rocks and soil; geologic materials in construction; erosion, mass wasting, subsidence, flooding, shoreline, seismic, volcanic, and other natural hazards. Dams, tunnels, mines, shoreline structures, and other special construction problems; groundwater engineering problems.

Prerequisite: an introductory course such as GEOL 101, 207, 240; NREM 211 or EMHS 352; MATHS 108 or high school equivalent, or permission of the department chairperson.

Not open to students who have credit in GEOL 416.

510 Advanced Igneous and Metamorphic Petrology. (3) Processes responsible for, and the rocks and minerals associated with, the formation of both igneous and metamorphic rocks. Microscopic to macroscopic features associated with these processes. Regularly scheduled laboratory.

Prerequisite: GEOL 510 or permission of the department chairperson.

Not open to students who have credit in GEOL 411.

520 Oceanography. (3) Description of geological and physical characteristics of the oceans, marine processes, and related topics.

Prerequisite: GEOL 201, 207; CHEM 111,
or permission of the department chairperson.

Not open to students who have credit in GEOL 420.

525 Geophysics. (3) An introduction to the physics of the earth and the geophysical sciences. Refraction and reflection seismology, magnetic, electrical, gravity, radioactivity, and geothermal methods are included in lecture topics, laboratory exercises, and field investigations. Emphasizes the application of geophysical methods to energy, mineral and ground-water exploration, site evaluation, pollution detection, and other applied problems.

Not open to students who have credit in GEOL 425.

535 Sequence Stratigraphy. (3) Principles and practices of sequence stratigraphy. Use of
surface and subsurface stratigraphic data in the reconstruction of depositional sequences and records of sea-level change. Includes an immersion experience.

Prerequisite: GEOL 508 or permission of the department chairperson.

Not open to students who have credit in GEOL 435.

545 Fractals in the Natural Sciences. (3)
Fractal geometric models and data analysis methods of practical use in the sciences. Application examples drawn from geosciences and other natural science fields. Divider, box, size-number, variogram, and rescaled range methods, along with other techniques. Discussion of chaos and self-organized criticality as possible sources of fractals in nature.

Prerequisite: MATHS 108.

Not open to students who have credit in GEOL 445.

550 Geology of Indiana. (3)
Rocks, structure, fossils, landforms, economic resources, and geologic history of Indiana. Designed for students, particularly teachers, not majoring in the earth sciences. Field-trip oriented with collection of rock, mineral, and fossil specimens.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Not open to students who have credit in GEOL 450.

560 Hydrogeology. (3)
Occurrence and movement of surface water and groundwater, with special reference to the geologic environment.

Prerequisite: GEOL 201 or 207 or 240 or NREM 211; MATHS 108 or high school equivalent; or permission of the department chairperson.

Not open to students who have credit in GEOL 360.

570 Groundwater Geochemistry. (3)
Introduces the processes controlling the composition of natural waters: streams, lakes, oceans, and near-surface ground-waters. Focuses on the effects of human activities, biological systems, and inorganic geochemistry processes on water chemistry.

Prerequisite: GEOL 101; CHEM 111, 112; or permission of the department chairperson.

Not open to students who have credit in GEOL 470.

571 Volcanology and Volcanic Hazards. (3)
Designed to give middle- and upper-level students a working knowledge of the causes and effects of the various types of volcanism ranging from quiescent Hawaiian-style volcanoes to the explosive Southwest Pacific volcanoes. In addition, looks at volcanic prediction, monitoring, and hazard response programs.

Prerequisite: GEOL 201 or permission of the department chairperson.

575 Glacial Geology. (3)
In-depth study of the physical nature of glaciers, their deposits, and the erosional and depositional landforms they create. Introduction to the glacial history of the north central United States. Term paper required.

Prerequisite: GEOL 240; PHYCS 110 or 120; or permission of the department chairperson.

Not open to students who have credit in GEOL 475.

580 Special Studies and Field Problems. (1-3)
Selected detailed geologic problems under the guidance of a qualified instructor.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

583 Field Geology. (6)
A capstone experience applying field techniques to the resolution of geologic problems. Group and individual projects include accumulation and interpretation of field observations and preparation of geologic maps, cross sections, and stratigraphic sections to answer geologic questions. Five-week summer field course in the Rocky Mountains.

Prerequisite: GEOL 201, 220, 240, 508, 590; or permission of the department chairperson.
585 Group Field Research Experience.  
(3-6) Mentored, intensive, independent and/or collaborative research experience in a group setting, at an off-campus location.  
Prerequisite: permission of the department chairperson.  
A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.  
Not open to students who have credit in GEOL 485 same topic.

590 Computer Applications in the Geosciences. (1) Survey of the various computer applications in the geosciences. Designed to supplement existing geoscience and computer science courses by providing opportunity to gain experience in working with BASIC and FORTRAN programs in various geoscience data collection, calculation, and graphic display applications.  
A total of 3 hours of credit may be earned, but no more than 1 in any one semester or term.  
Not open to students who have credit in GEOL 290.

599X Experimental Elective Course. (1-6) Experimental new specialty course in the geological sciences. Topic and mode of instruction vary by semester of offering.  
A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.  
Not open to students who have credit in GEOL 499X same topic.  
Open only to students with at least junior status.

600 Seminar in Geology. (1-3) Review and discussion of the literature related to a selected topic of current interest in geological research. Laboratory work and field trips may be included when necessary.  
A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

601 Seminar in Environmental Geology. (1-3) Review and discussion of the literature related to a selected topic of current interest in environmental geology. Laboratory work and field trips may be included when necessary.  
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

605 Seminar in Stratigraphy. (3) Discussion of current topics in stratigraphy. Subjects may include global correlation, the record of sea level change, and global events in earth history.

610 Seminar in Sedimentary Petrology. (3) Advanced coverage of sedimentary rocks, their constituents, their environments of deposition, and the diagenetic processes that alter them after deposition. Proficiency in recognition of sedimentary constituents, in naming sedimentary rock types, and in interpretation of depositional, diagenetic, and provenance processes is expected.  
Prerequisite: GEOL 412 or 512 or permission of the instructor.

611 Regional Geology. (3) Geologic history, geomorphology, structural geology, and special geologic topics of selected regions.

626 Seminar in Tectonics. (3) Origin and nature of tectonic processes affecting the crust and lithosphere. Plate dynamics and the tectonic evolution of orogens from a structural, petrologic, and geochronologic perspective.  
Prerequisite: GEOL 315, 411, or 510 or permission of the instructor.

660 Seminar in Advanced Hydrogeology. (3) Seminar in advanced and contemporary topics in groundwater geology, such as pump and slug test analyses, analytic or numerical flow and transport computer modeling, wellhead protection policy, current groundwater resource and water quality research, and groundwater remediation.  
Prerequisite: GEOL 360 or 560; permission of the department chairperson.

670 Seminar in Environmental Geochemistry. (3) Seminar in advanced and contemporary topics in aqueous geochemistry such as geochemical cycling with focus on the role of sediments, soils, freshwater streams and lakes, and oceans as reservoirs for chemical compounds, including natural and manmade contaminants.  
Prerequisite: GEOL 470 or 570 or permission of the department chairperson.
671 Seminar in Geomorphology. (3) Review and critical discussion of key classic and recent literature in geomorphology. Student presentations and group project.

680 Special Studies and Field Problems. (1-3) Selected detailed geologic problems under the guidance of a qualified instructor.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

685 Geology Research Methods. (3) Introduction to the use of scientific literature, design of research, analysis of data, and writing of research/grant proposals in a focused area of the geosciences. Review of literature pertinent to a special topic of student interest.

HISTORY

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Burkhardt Building 200, 765-285-8700

PROGRAMS

The master of arts (MA) in history and in social science may serve as terminal degrees or as preludes to additional graduate degrees. In addition, either of the two degrees may be used to professionalize the standard secondary school teaching license. See Social Studies, page 183.

MASTER OF ARTS IN HISTORY

Admission requirements

Students must apply to and meet the admission requirements of the Graduate School. Students also must apply separately to the Department of History. All applicants must submit to the director a resume or curriculum vitae, original copies of all official undergraduate transcripts, a writing sample (typically their best undergraduate history paper), and a 300-500 word statement concerning goals and interests. Applicants normally should have earned at least a 3.0 grade-point average (GPA) on a scale of 4.0 in a minimum of 18 semester hours in undergraduate history courses. To qualify for a graduate assistantship in the department, applicants must take the Graduate Record Examination (GRE) general test and ordinarily have an undergraduate GPA of at least 3.0 on a scale of 4.0.

Degree requirements

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Directed electives

A minimum of five courses in American, European, and/or world history distributed over a minimum of two areas. Students must select from the following courses:

American History

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European History
HIST 631 Std Erly Eur (3)  
HIST 632 Std Mod Eur (3)  
HIST 633 Spec Top Eur (3-6)

World History
HIST 641 Std Wrld His (3)  15

Two 500- or 600-level courses in history or with approval in related fields  6

Thesis option
Any student may choose to write a thesis. The history department strongly recommends that students who intend to continue their graduate education at the doctoral level write a thesis.

THES 698 Thesis (1-6)  6

or

General option
Students who choose not to write a thesis must complete 6 additional hours of 600-level course work in lieu of a thesis.

600-level course work  6

MA Examination
All students must take a three-hour written examination in a field in one of three geographic areas. The written exam is followed by a one-hour oral examination. Students must take at least three courses (9 hours) in the MA exam field, at least two of which (6 hours) must be at the 600 level. Students will complete at least two courses (6 hours) in a complementary field from a different geographic area. At least one of those courses (3 hours) must be at the 600 level. In the course of completing the 6 hours in his or her complementary field, the student must complete an essay of approximately 20 pages on a topic to be determined in consultation with a faculty member.

HISTORY (HIST)

500 Colonial America, 1492-1756. (3) The settlement of North America by the British and the evolution of the distinctive colonial societies that formed the foundations of the United States.  
Not open to students who have credit in HIST 400.

501 The American Revolution, 1756-1789. (3) Transformation of American society and politics in the era of the American Revolution with emphasis on the origins of the revolution, the development of a democratic society, and the Constitution of the United States.  
Not open to students who have credit in HIST 401.

503 The Rise of Nationalism in the United States, 1789-1824. (3) The foundations of the United States as a new nation with emphasis on the major social, political, economic, and diplomatic events of the period.  
Not open to students who have credit in HIST 403.

505 Nationalism versus Sectionalism in the United States, 1820-1860. (3) The major social, political, economic, and cultural developments in the United States with emphasis on the major leaders and events involved in the sectional conflict leading to the Civil War, 1820-1860.  
Not open to students who have credit in HIST 405.

507 The American Civil War and Reconstruction. (3) Events, leaders, and movements, with special emphasis on causes, interpretation, and historiography of the period of national crisis and war followed by national reconstruction.  
Not open to students who have credit in HIST 407.

509 Progressivism and Imperialism: The United States, 1878-1918. (3) America’s rise to world significance at home and abroad between 1878 and 1918; the political, social, and economic problems and various efforts at reform.  
Not open to students who have credit in HIST 409.
510 Introduction to the History of Business in the United States. (3) An historical examination of American business from colonial times to the present. 
Not open to students who have credit in HIST 310.
Open only to graduate students.

511 The United States from World War I through World War II. (3) An examination of the reaction of the American people to a society changing rapidly under the impact of two major wars, the Great Depression, and continuing industrialization and urbanization.
Not open to students who have credit in HIST 411.

513 Recent United States History: 1945 to the Present. (3) The role of the United States in the modern world. Examines the efforts of Americans to preserve a society that is prosperous and humane while it adjusts to technological change and continuing social and intellectual ferment.
Not open to students who have credit in HIST 413.

515 History of Indiana. (3) Exploration, colonization, and development of the state from the earliest time to the present. 
Prerequisite: 6 hours of credit in United States history.
Not open to students who have credit in HIST 415.

516 History of the Antebellum South. (3) History, institutions, political themes, and problems of the antebellum South.
Not open to students who have credit in HIST 416.

517 History of the New South. (3) Reconstruction, industrial and agricultural progress, social life, and the new leadership after 1865.
Not open to students who have credit in HIST 417.

519 The Trans-Mississippi Frontier. (3) American territorial expansion in the region west of the Mississippi River, with emphasis on the nineteenth century. Exploration, the movement of settlers, the events that influenced their migration, and the effect of these events and the frontier on national development.
Not open to students who have credit in HIST 419.

520 The African American Experience in America. (3) The African American experience in America from the sixteenth century to the present. Emphasizes the effect of African Americans on American culture and vice versa.
Not open to students who have credit in HIST 210.

521 Indians in United States History. (3) Indian and white relations from 1492 to the present; the Indian wars, treaty making, various types of Indian and Caucasian interaction, and the development of federal and state Indian policy.
Not open to students who have credit in HIST 421.

529 Colloquium in Latin American History. (3-6) Selected topics in the history of Mexico, the Caribbean, and the Spanish borderlands. A total of 6 hours of credit may be earned.

530 United States Diplomatic History to 1914. (3) History of United States diplomacy from the late colonial period to the eve of World War I. Not open to students who have credit in HIST 430.

532 United States Diplomatic History Since 1914. (3) The foreign relations of the United States since the outbreak of World War I. Not open to students who have credit in HIST 432.

533 American Life and Thought, 1607-1865. (3) American social, intellectual, and cultural history from the colonial period to the Civil War, including such topics as religion, women, the family, ethnic groups, minorities, the arts, thought, popular culture, and everyday life. Not open to students who have credit in HIST 433.
534 American Life and Thought, 1865 to the Present. (3) American social, intellectual, and cultural history from Reconstruction to the present, including such topics as religion, women, the family, ethnic groups, minorities, the arts, thought, popular culture, and everyday life.
Not open to students who have credit in HIST 434.

535 American History through Film. (3) Introduces the techniques needed to analyze films as primary documents in United States history. Focuses on the most significant feature and documentary films of American society. Compares and contrasts filmic and historical reality.
Not open to students who have credit in HIST 435.

538 Colloquium on United States Urban History. (3) The literature of American urban history, presented topically rather than chronologically. Students will select readings from a list compiled especially for the course and tailored to the exact number of students. They will then discuss their own special assignments each week so that greater exposure and interchange will be possible.

541 Comparative Slavery. (3) Explores the types of bondage, unfree labor systems, and slavery and the slave trade throughout African history as well as in a number of geographical regions for comparison. Includes Africa, the Mediterranean, the Caribbean, and Central and South America.
Prerequisite: permission of the department chairperson.
Not open to students who have credit in HIST 441.

549 American Culture Field Studies. (3-6) American culture, its art, economic life, educational systems, geography, history, industry, languages, music, and society. Students will travel through designated areas in North America. Before the trip, considerable reading in various fields pertinent to the course will be required. At the conclusion, papers will be required.
A total of 6 hours of credit may be earned.
Not open to students who have credit in HIST 449.

553 Modern Western Culture. (3-6) Selected studies in the development of cultural and intellectual movements in the fine arts, literature, scholarship, political and economic thought, science, and social reform from the eighteenth century to the present. Emphasizes themes and problems of major significance.
A total of 6 hours of credit may be earned.

554 The Era of World War I, 1870-1918. (3) The background, immediate causes, and course of the First World War with special attention to nationalism, the alliance system, imperialism, militarism, and conflicts of interest and aspirations.
Not open to students who have credit in HIST 454.

Not open to students who have credit in HIST 455.

556 Cold War and Europe Since 1945. (3) European origin of the Cold War and rebirth of a “new” but divided Europe with stress on East-West conflict, power blocs, international relations, and temporary decline of European influence; ideological, political, economic, and social development, including competition between Western and Sovietized Eastern Europe.
Not open to students who have credit in HIST 456.

558 Strategy and Diplomacy of the European Great Powers Since 1860. (3) Examines, interprets, and evaluates British, German, Russian, French, Italian, and Austrian strategy and diplomacy—and economic, geographic, ideological, and military foundations of national power—focusing upon the “German Question,” Eurocentrism, imperialism, two world wars,
renewed multipolarity, the European Community, and the Cold War.

Not open to students who have credit in HIST 458.

559 The Jews in Europe and the Middle East, 1098 to the Present. (3) Survey of the Jewish role in European and Middle Eastern history and society. Focus will be on the commonalities and differences among Judaism, Christianity, and Islam and changing attitudes toward the Jewish community in the nineteenth and twentieth centuries.

Not open to students who have credit in HIST 459.

560 Selected Topics in American Military History. (3) A selected topics course covering American Military History.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Not open to students who have credit in HIST 360.

Open only to graduate students.

561 Development of Greek Civilization. (3) Greek political, social, and intellectual development in the Hellenic and Hellenistic periods. Emphasizes the rise and fall of Greek democracy and Greek contributions to the civilizations and cultures of the West.

Not open to students who have credit in HIST 461.

562 Development of Roman Civilization. (3) Political, social, and intellectual development of Rome from the beginning of the republic to approximately AD 500. Emphasizes development of Roman characteristics during the republic, effects of Greek ideas and imperial expansion, and Roman contributions to Western civilization.

Not open to students who have credit in HIST 462.

564 Development of Byzantine Civilization. (3) Political, socioeconomic, and intellectual development of the Byzantine Empire from its origins to 1453. Emphasizes Byzantine religious and cultural contributions and relations with Western Europe, the Slavic peoples, and the Muslim world.

Not open to students who have credit in HIST 464.

565 Medieval Ideas and Institutions. (3) Selected problems concerning the social and cultural bases of medieval civilization. Emphasizes six major institutions and themes—feudalism, chivalry, manorialism, the medieval city, the church, and the medieval university.

567 The Renaissance and Reformation, 1300-1600. (3) Specialized study of the crises, changes, and cultural achievements of Europe in an age of transition and intellectual upheaval. Individual investigations combined with a colloquium approach.

569 World Civilizations—Field Studies. (3-6) World civilizations—their history, art, economic life, educational systems, geography, industry, languages, music, and society—through varied travel programs. Advance reading and a summary paper are required to complement each year’s travel program.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

Not open to students who have credit in HIST 469.

571 France Since 1815. (3) The political, intellectual, and social development of modern France—the problems of revolution and reaction, imperial growth, republican reform and stabilization, state power and individual freedom, capitalism, and socialism.

Not open to students who have credit in HIST 471.

572 France—The Classical Age, 1461-1715. (3) The foundations and institutions of French absolutism through Louis XIV—classic culture, the monarchy, the aristocracy, the bourgeoisie, Gallican Catholicism—with emphasis on development of the ancient regime and French influence on Europe.

Not open to students who have credit in HIST 472.
573 French Revolutionary and Napoleonic Eras, 1715-1815. (3) Investigations of the causes of the French Revolution—the great turning point of modern civilization—with particular stress on nationalism, authority, individual freedom, reform measures, social change, and other significant forces.

*Not open to* students who have credit in HIST 473.

575 Britain, 1485-1714. (3) A survey of the political, social, and economic history of England in the Tudor and Stuart periods. Emphasizes the rise of the national state, religious conflicts, the development of the power of Parliament, and overseas exploration and colonization.

*Not open to* students who have credit in HIST 475.

576 Britain, 1714 to the Present. (3) Survey of the many changes in British life from the Hanoverian period to the present—modernization of political institutions, evolution of the limited monarchy, industrialization and social conflict, effects of imperialism and recent wars, problems of government and society since World War II.

*Not open to* students who have credit in HIST 476.

577 Topics in English Constitutional History. (3) Selected topics concerning the constitutional history of England, such as the development of the kingship, the common law, Parliament, the Tudor and Stuart theories of government, the cabinet system, and political parties.

*Not open to* students who have credit in HIST 477.

581 Modern Germany. (3) Critical problems in modern German history with concentration on unification and the age of Bismarck, the First World War, cultural and intellectual ferment, Hitler and the Nazi period, and postwar West and East Germany.

*Not open to* students who have credit in HIST 481.

582 Research on the History of the Celtic Peoples. (3) Surveys the entire chronological and geographical framework of the history of the Celtic peoples and their distinctive and persistent culture. Introduces recent scholarship and graduate-level research on a topic of the student’s choice.

*Not open to* students who have credit in HIST 482.

583 Research in Irish History. (3) Surveys the entire span of Irish history and introduces recent historiography and graduate-level research on a topic of the student’s choice.

*Not open to* students who have credit in HIST 483.

584 Southern Africa. (3) Explores the arrival of the Europeans in the southern tip of Africa from 1652 and focuses on the subsequent four centuries of colonial domination of much of the southern African continent. Also investigates Black, Indian, and Colored resistance.

*Prerequisite:* permission of the department chairperson.

*Not open to* students who have credit in HIST 484.

586 Russian Civilization Before 1917: From Kievan Rus to Imperial Russia. (3) Surveys the political, social, and cultural history of Russian civilization from its origins in the ninth century under the first political organization of the East Slavic tribes, known as Kievan Rus, to the collapse of the Russian Empire in March 1917.

587 Soviet and Post-Soviet History. (3) Surveys the political, social, and cultural history of the Soviet Union within the broader context of events before and after the breakup of the USSR to the present.

588 History of South Asia. (3) Descriptive and analytical survey of the subcontinent of South Asia, comprising India, Pakistan, Bangladesh, and Sri Lanka, from early times to the present.

*Not open to* students who have credit in HIST 488.

589 History of Southeast Asia. (3) History of the region from earliest times to the present, with special attention to the formation of the
earliest civilizations; the influence of Indian, Chinese, and European cultures upon the people of Southeast Asia; and the processes of synthesis that have taken place within these civilizations through the centuries.

Not open to students who have credit in HIST 489.

591 Topics in Middle Eastern History. (3)
Selected issues and problems in the Middle Eastern world since Muhammad. Topics may include the expansion of Islam, slavery in the Middle East, the economic and social history of the Ottoman empire, the Arab/Israeli dispute, and recent national and international crises.

Not open to students who have credit in HIST 491.

592 History of China to 1600. (3)
Descriptive and analytical survey of China’s history from earliest times to roughly AD 1600, with emphasis on the development of the dynastic tradition, Confucian-based society and culture, and China’s focal point status in the pre-1600 world order.

Not open to students who have credit in HIST 492.

593 History of Premodern Japan. (3)
Analytical survey of premodern Japanese history to ca. 1600, focusing on the ideological, political, social, economic, and cultural developments that provide a foundation for the understanding of modern Japan.

Not open to students who have credit in HIST 493.

595 Modern China, 1600 to the Present. (3)
Descriptive and analytical survey with emphasis on China’s changing role as a member of the world community, its response to increased Western contacts, disintegration of traditional order, revolutionary changes through the Republic of China and the People’s Republic, and significant elements of contemporary Chinese society and culture.

Not open to students who have credit in HIST 495.

596 Modern Japan, 1600 to the Present. (3)
Descriptive and analytical survey of political and economic developments, foreign policy, and social and cultural change in modern Japan with emphasis on conditions contributing to its rapid modernization, nationalist and expansionist movements, and dynamic postwar recovery.

Not open to students who have credit in HIST 496.

612 Seminar in Modern Historiography. (3) A survey of the major works in the historical literature of the past five centuries, including both European and American contributions, with special investigation of significant historians and movements in historical studies and writing.

613 Seminar in Historical Research. (3)
Designed to further investigative skills. Focuses on the knowledge of concepts and methodology used in historical research through the intensive study of a selected topic in American, European, or world history. A research paper is required.

Prerequisite: HIST 612; permission of the MA advisor in history.

621 Studies in American History to 1877. (3)
Studies of selected problems in American history to 1877 with special attention to discussion of historiography and current trends in scholarship. Exact content will be announced before each offering.

622 Studies in American History Since 1877. (3) Studies of selected problems in American history since 1877 with special attention to discussion of historiography and current trends in scholarship. Exact content will be announced before each offering.

623 Special Topics in American History. (3-6)
Investigation of a particular topic, problem, or issue in American history with emphasis on topics, specialties, and materials not covered in other courses. Exact content will be announced before each offering.

A total of 6 hours of credit may be earned.

631 Studies in Early European History. (3) Studies of selected problems in early European history with special attention to discussion of historiography and current trends in scholarship. Exact content will be announced before each offering.
**632 Studies in Modern European History. (3)**
Studies of selected problems in modern European history with special attention to discussion of historiography and current trends in scholarship. Exact content will be announced before each offering.

**633 Special Topics in European History. (3-6)**
Investigation of a particular topic, problem, or issue in European history with emphasis on topics, specialties, and materials not covered in other courses. Exact content will be announced before each offering.

A total of 6 hours of credit may be earned.

**641 Studies in World History. (3)**
Studies of selected problems in world history with special attention to discussion of historiography and current trends in scholarship. Exact content will be announced before each offering.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

**650 Special Studies. (1-6)**
Directed study of special problems by individuals or groups of students. Ordinarily not available until students have earned 12 hours of graduate credit in history.

*Prerequisite:* permission of the department chairperson.

A total of 6 hours of credit may be earned with permission of the department chairperson.

**SOCIAL STUDIES (SS)**

**650 Independent Study in Social Science Education. (1-6)**
Directed study of special problems or research in social science education by individuals or groups of students. Topics to be investigated will be chosen after consultation with an instructor with special competence in the topic involved.

*Prerequisite:* permission of the department chairperson.

A total of 6 hours of credit may be earned.

**670 Applying Media Resources to Social Science Education. (3)**
Selecting, developing, and incorporating media into a systematic plan for instruction in the social sciences. Designed to aid in the enrichment of teaching through appropriate use of instructional media.

**688 Using Community Resources in Teaching Social Studies. (3)**
Techniques and practice in finding, analyzing, organizing, and grading materials pertaining to political, economic, and social activities of the community and their historical development for use at the various grade levels.

**690 Selection and Organization of Social Studies Teaching Materials. (3)**
Recent curriculum materials examined in the light of learning theory, methods of teaching, content emphasis, and rationale. Criteria for comparing and evaluating curriculum materials are developed.

**691 Teaching Social Studies Skills in Secondary Schools. (3)**
Preparation for teaching social studies skills to meet individual and group needs. Emphasizes skills related to problem solving, critical thinking, reading and interpreting materials, using pictorial representations, and finding and using information.

**692 Teaching Social Studies Skills in Junior High/Middle Schools. (3)**
Preparation for teaching social studies skills to meet individual and group needs. Emphasizes skills related to problem solving, critical thinking, reading and interpreting materials, using pictorial representations, and finding and using information.

**694 Seminar in Social Studies Curriculum and Instruction. (1-5)**
Research and investigative techniques will be developed through the intensive study of a topic within the framework of social studies curriculum and instruction. Some of the topics studied are goals, methodology, content, evaluation, development and revision of curricula, and teacher education in social studies. A research paper is required.

A total of 5 hours of credit may be earned.
695 Recent Trends in Teaching Secondary School Social Studies. (3) Issues and teaching strategies developed in view of the findings of current research in social science education. Considers such topics as developing goals, organizational patterns, values clarification, inquiry teaching, and evaluative procedures in teaching social studies. Designed for experienced teachers.

697 Seminar in Social Science Education. (1-5) The discussion of current issues and research in one branch of the social studies, such as value analysis, method of inquiry, critical thinking, methods in the inner city.

A total of 5 hours of credit may be earned.

MATHEMATICAL SCIENCES

www.bsu.edu/math
Robert Bell Building 465, 765-285-8640

PROGRAMS

Master of arts (MA) in actuarial science, in mathematics, in mathematics education, and in statistics; master of science (MS) in mathematics

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

MASTER OF ARTS IN ACTUARIAL SCIENCE

The master’s program in actuarial science provides training for careers that involve analyzing and solving financial, business, and social problems related to economic risk. The program includes course work that prepares students for the professional examinations given by the Society of Actuaries and the Casualty Actuary Society.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School. It is also expected that students will have had three semesters of calculus, a course in linear algebra, at least one semester of probability and one semester of statistics.

Degree requirements

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6-8 hours from

FIN     500 Corporation (3)
MATHS   528 Reg Time Ser (3)
        554 Math Invest (3)
        558 Act Model 2 (3)
        621 Math Stat 2 (4)
        625 Prob Theor 1 (3)
        626 Prob Theor 2 (3)

238
MASTER OF ARTS IN MATHEMATICS

The master of arts degree in mathematics provides students with a broad graduate-level mathematical background suitable for community college teaching, for pursuing a PhD degree in the mathematical sciences, or for seeking employment in business, industry, or government.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School and have an undergraduate major in mathematics or an equivalent background as determined by the Department of Mathematical Sciences.

Degree requirements

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Research component, 3-6 hours from

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30 hrs

MASTER OF ARTS IN MATHEMATICS EDUCATION

The master of arts in mathematics education provides opportunities for elementary, middle school, and high school teachers to examine various issues related to the teaching and learning of mathematics while continuing to develop their own mathematical content knowledge.

Option 1: Elementary and middle school mathematics

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School; hold a current elementary, middle school, or special education teaching license; and have at least one year of elementary or middle school teaching experience.

Degree requirements

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the undergraduate equivalent is completed

MATHS 514 Alg Fns Tch 3
517 Nmbr Sys Tch 3
542 Geo Meas Tch 3

Mathematics education, 9 hours
MATHS 690 C I Math Ed 3
694 Res Math Ed 3
696 Act Res Meth 3

Electives in mathematics or mathematics education, 9-18 hours
(as approved by advisor) from
MATHS 631 Tech Mth Tch (3)
632 Assmt Mth Ed (3)
641 Topics Geom (3)
671 Con Disc Tch (3)
680 Studies Tchg (3)
691 Dev Ins Math (3)
693 Prob & Com (3)
695 Learn Th Mth (3)
697 Lead Math Ed (3) 9-18

30 hrs

Option 2: Secondary mathematics

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School; have an undergraduate major in mathematics or an equivalent background as determined by the Department of Mathematical Sciences; hold a current secondary mathematics teaching license; and have at least one year of secondary mathematics teaching experience.

Degree requirements

Mathematics content, 15 hours
MATHS 641 Topics Geom 3
Take each of the following unless the undergraduate equivalent is completed.
MATHS 511 Abstr Alg 1 3
571 Real Anls 1 3

Electives in mathematics content, 6-12 hours
(as approved by advisor) from
MATHS 620 Math Stat 1 (4)
621 Math Stat 2 (4)
623 Data Anl Tch (3)
645 Topology 1 (3)
675 Measr Thry 1 (3)
677 Complx Var 1 (3) 6-12

30 hrs

MASTER OF ARTS IN STATISTICS

The master’s program in statistics provides students with the background suitable for employment as a statistician in business, industry, or government. The degree also provides suitable preparation for pursuing a PhD degree in statistics.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School. It is also expected that students will have had three semesters of calculus and a course in linear algebra.

Degree requirements

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240
The master of science degree in mathematics provides students with a broad graduate-level mathematical background suitable for community college teaching, for pursuing a PhD degree in the mathematical sciences, or for seeking employment in business, industry, or government. Students pursuing the master of science degree will be required to write a 6-hour thesis.

**Admission requirements**

Applicants must meet the regular admission requirements of the Graduate School and have an undergraduate major in mathematics or an equivalent background as determined by the Department of Mathematical Sciences.

**Degree requirements**

**MASTER OF SCIENCE IN MATHEMATICS**

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**GRADUATE CERTIFICATE IN ELEMENTARY MATHEMATICS TEACHER LEADERSHIP**

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MIDDLE SCHOOL/JUNIOR HIGH MATHEMATICS LICENSE (GRADUATE LEVEL)

Admission requirements

Open only to candidates who currently hold an elementary, middle school, or special education license. Middle school/junior high licensure in mathematics will be granted when the following criteria are met:

- completion of the following mathematics content courses with a 3.0 minimum GPA, with grade of C- or better in 100- and 200-level mathematics content courses and grade of C or better in 500- and 600-level mathematics content courses;
- completion of the following professional education courses with a 3.0 minimum GPA, with grade of C or better in all professional education courses;
- passing score on Praxis II for Middle School Mathematics; and
- Decision Point Requirements.

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37-38 hrs

MATHEMATICAL SCIENCES (MATHS)

511 Abstract Algebra 1. (3) The theory of groups, including subgroups, cyclic groups, normal subgroups, cosets, Lagrange’s Theorem, quotient structures, homomorphism, automorphisms, group actions, Sylow’s Theorems, structure of finite abelian groups, generators, and relations.

Prerequisite: MATHS 311 or permission of the department chairperson.

Not open to students who have credit in MATHS 411.


Prerequisite: MATHS 411 or 511 or permission of the department chairperson.

Not open to students who have credit in MATHS 412.

514 Algebra and Functions for Elementary and Middle School Teachers. (3) Algebra as the study of patterns, as a symbolic language, as a tool for problem solving, as the study of functions, as generalized arithmetic, and as a way of modeling physical situations.

Prerequisite: at least one year of elementary or middle school teaching experience or permission of the department chairperson.

516 Theory of Numbers. (3) Topics include the division algorithm; positional notation; divisibility; primes; congruences; divisibility criteria; the sigma, divisor, and phi functions; Diophantine equations; linear, polynomial, and simultaneous congruences; theorems of Fermat, Euler, Lagrange, and Wilson; quadratic reciprocity.

Prerequisite: MATHS 215 or permission of the department chairperson.

Not open to students who have credit in MATHS 416.

517 Number Systems and Number Theory for Elementary and Middle School Teachers. (3) Number development, number systems, properties and characteristics of classes of
numbers, number sense, number theory, operations and their relationships, and algorithms.

Prerequisite: at least one year of elementary or middle school teaching experience or permission of the department chairperson.

522 Theory of Sampling and Surveys. (3)
Survey designs; simple random, stratified, cluster, and systematic sampling; ratio estimates; regression estimates; cost and variance functions.

Prerequisite: MATHS 321 or the equivalent.

528 Regression and Time Series Models. (3)
Addresses regression topics that include simple and multiple linear regression, polynomial regression, regression diagnostics, and forecasting. Also introduces time series topics that include exponential smoothing, autoregressive, integrated, moving average (ARIMA) models, and forecasting.

Prerequisite: MATHS 321 or the equivalent.

Not open to students who have credit in MATHS 428.

529 Analysis of Variance in Experimental Design Models. (3) Multivariate normal distribution; quadratic forms; linear models; simple random, randomized block, Latin squares, factorial, split-plot, balanced incomplete block designs; analysis of covariance; confounding; and multiple comparison tests.

Prerequisite: MATHS 321 or equivalent.

Not open to students who have credit in MATHS 429.

542 Geometry and Measurement for Elementary and Middle School Teachers. (3) Students will develop visualization skills; identify two- and three-dimensional shapes and know their properties; connect geometry to other mathematical topics; research historical topics relevant to elementary and middle school geometry.

Prerequisite: at least one year of elementary or middle school teaching experience or permission of the department chairperson.

551 Mathematics of Finance. (4) Mathematical theory of compound interest, force of interest, annuities, equations of value, yield rates, amortization, sinking funds, bonds, market derivatives, depreciation, and current topics in finance.

Prerequisite: MATHS 166.

Not open to students who have credit in MATHS 351.

552 Mathematics of Life Contingencies 1. (4) Survival distributions, life tables; the mathematics of life insurance, life annuities, net premiums, and net premium reserves.

Prerequisite: MATHS 321.
Parallel: MATHS 551.

Not open to students who have credit in MATHS 452.

553 Mathematics of Life Contingencies 2. (4) Mathematics of expense loaded premiums and reserves, asset shares, multiple life functions, multiple decrement models, discrete time Markov Chain models, and simulation.

Prerequisite: MATHS 552.

Not open to students who have credit in MATHS 453.

554 Mathematics of Investments. (3) Mathematical analysis and actuarial principles of investments and asset management.

Prerequisite: MATHS 320 (or 620), 351 (or 551); or permission of the department chairperson.

Not open to students who have credit in MATHS 454.

555 Topics in Actuarial Science. (2) Selected topics in actuarial science with emphasis on individualized study for the actuarial exams given by the Society of Actuaries and the Casualty Actuarial Society.

Prerequisite: permission of the department chairperson.


Prerequisite: MATHS 162 or 166, 217 or permission of the department chairperson.
Not open to students who have credit in MATHS 456.

557 Actuarial Models 1. (4) Loss and frequency distributions, limited expected value, effects of inflation, parametric and non-parametric models, identification procedures for insurance company data, bootstrapping, Bayesian analysis, compound frequency, methods for censored and truncated data, classical and Bayesian credibility models, experience rating.

Prerequisite: MATHS 321 or 620.

Not open to students who have credit in MATHS 457.

558 Actuarial Models 2. (3) Basic functions related to actuarial models, common parametric models, maximum likelihood estimation for censored or truncated data, nonparametric estimation, hypothesis testing, models with covariables, simulation, and other topics as time permits.

Prerequisite: MATHS 321, 557; one year of mathematical probability and statistics.

Not open to students who have credit in MATHS 458.

559 Models in Financial Economics. (3) Mathematical and economic analysis of financial instruments and the management of financial and investment risk.

Prerequisite: MATHS 320 (or 620), MATHS 351 (or 551), or permission of the department chairperson.

560 History of Mathematics. (3) The development of mathematics from pre-history to the seventeenth century. Topics may include number concepts and numeration, algebra, geometry, trigonometry, analytic geometry, and calculus.

Prerequisite: MATHS 161 or 165.

Not open to students who have credit in MATHS 460.

562 Numerical Analysis 1. (3) Topics include error analysis, locating roots of equations, interpolation, numerical differentiation and integration, spline functions, smoothing of data. Includes programming of numerical algorithms.

Prerequisite: MATHS 162 or 166; MATHS 259 or CS 120; or permission of the department chairperson.

Not open to students who have credit in MATHS 362.

563 Numerical Analysis 2. (3) Topics include direct and iterative methods for solving systems of linear equations, eigenvalue problems; minimization of functions and linear programming. Includes programming of numerical algorithms.

Prerequisite: MATHS 217; MATHS 362 or 562.

Not open to students who have credit in MATHS 363.

568 Unpaid Professional Experience in Mathematical Sciences. (1-8) Supervised unpaid work and learning experience as a practicing mathematician, statistician, or actuarial scientist. Practical problem-solving experience will be gained through an internship, practicum, or other such situation.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned.

A total of 8 hours of credit may be earned in MATHS 568 and 569 combined. No more than 3 hours can be counted as electives toward a departmental major or minor.

569 Paid Professional Experience in Mathematical Sciences. (1-8) Supervised paid work and learning experience as a practicing mathematician, statistician, or actuarial scientist. Practical problem-solving experience will be gained through an internship, practicum, or other such situation.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned.

A total of 8 hours of credit may be earned in MATHS 568 and 569 combined. No more than 3 hours can be counted as electives toward a departmental major or minor.

Continuous functions. Differential calculus of real- and vector-valued functions of one real variable.

Prerequisite: MATHS 215, 267; or permission of the department chairperson.

Not open to students who have credit in MATHS 471.


Prerequisite: MATHS 471 or 571.

Not open to students who have credit in MATHS 472.

573 Boundary Value Problems. (3) Fourier Series and integrals, heat and wave equations in one dimension, Laplace equation in two dimensions, problems in higher dimensions, and numerical methods of solving boundary value problems.

Prerequisite: MATHS 374.

Not open to students who have credit in MATHS 473.

575 Topics in Partial Differential Equations. (3) Classical solution techniques for linear PDEs. Topics include first- and second-order equations, method of characteristics, special functions, orthogonal polynomials, transforms, Green’s functions, and fundamental solutions. A computer algebra system is utilized.

Prerequisite: MATHS 267, 374, or permission of the department chairperson.

Not open to students who have credit in MATHS 475.

599 Special Studies in Mathematics. (1-8) Individual work under the direction of a staff member of the department will involve assigned reading and reports and may involve class attendance in related courses.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned.

601 Workshop in Mathematics Education. (1-12) A one- or two-week workshop addressing specific topics in mathematics education.

A total of 12 hours of credit may be earned.

619 Special Studies in Geometry, Algebra, or Topology. (1-8) Individual work under the direction of a faculty member of the department; will involve assigned reading and reports and may involve class attendance in related courses.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned. MATHS 619, 669, and 679, singly or in combination, may be taken for a total of no more than 8 hours of credit.


Prerequisite: MATHS 166, 215.


Prerequisite: MATHS 620.

623 Data Analysis and Probability for Teachers. (3) Students will select and use appropriate statistical methods to analyze data, develop, and evaluate inferences and predictions that are based on data, and understand and apply the basic concepts of probability.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

625 Probability Theory and Applications. (3) Basic probability theory, random variables,
conditional probability and conditional expectation, Poisson process, interarrival time, and waiting time distributions.

Prerequisite: MATHS 166 or equivalent.

626 Probability and Stochastic Processes. (3) Discrete and continuous time Markov chains, queuing theory, renewal theory.

Prerequisite: MATHS 625 or the equivalent.

627 Generalized Linear Models with Applications. (4) Methods needed to analyze non-normal data. Topics include exponential family of distributions, an overview of generalized linear models. Models for: continuous data with constant variance, binary data, polytomous data, count data, time to events or survival data.

Prerequisite: MATHS 621 or permission of the department chairperson.

628 Computational Methods in Statistics. (4) Theory and application of simulation techniques used in statistics. The use of statistical software such as SAS and R in statistical analysis.

Prerequisite: MATHS 620 or the equivalent.

631 Technology for Mathematics Teachers. (3) Modeling, computational, and communication tools used in teaching mathematics.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

632 Assessment in Mathematics Education. (3) Issues related to assessment in mathematics education and the relationship of assessment to curriculum and instruction. Examination of various types of assessments administered in mathematics classrooms, as well as large-scale local, national, and international assessments.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

641 Topics in Geometry. (3) A survey of topics in contemporary geometry from various perspectives, including conjecture and exploration, formal analysis, and application beyond geometry.

Prerequisite: MATHS 345 or the equivalent.

645 Topology 1. (3) Introduction to point-set topology. Topics include set-theoretic preliminaries, topological spaces, continuous functions, metric spaces, product and quotient spaces, connectedness, compactness, countability and separation axioms, Urysohn’s Metrization Theorem, Tietze’s Extension Theorem, and Tychonoff’s Theorem.

Prerequisite: MATHS 471 or 571.


Prerequisite: MATHS 645.

655 Topics in Actuarial Science. (1-4) Focuses on advanced studies in actuarial science. Actuarial science uses knowledge from many areas including mathematics, statistics, and finance. It also continually expands its scope to include latest developments from multiple areas. The instructor will have flexibility to determine course content.

Prerequisite: permission of the department chairperson.

A total of 4 hours of credit may be earned.


Prerequisite: MATHS 552.

659 Research Seminar in Actuarial Science. (3) Research study in actuarial subjects of current interest in life, property/casualty, health, pension, and/or financial risk management. Literature searches on selected topics. Articles from research journals may be read and discussed. Will use actuarial skills from several courses. A paper will be required. Case studies and special projects will be completed and results presented on a team basis.
Prerequisite: MATHS 557.
Parallel: MATHS 553.

660 Topics in the History of Mathematics. (3)
In-depth study of selected topics in the history of mathematics.
Prerequisite: MATHS 162 or 165, 460 or 560.

669 Special Studies in Applied Mathematics. (1-8)
Individual work under the direction of a faculty member of the department; will involve assigned reading and reports and may involve class attendance in related courses.
Prerequisite: permission of the department chairperson.
A total of 8 hours of credit may be earned. MATHS 619, 669, and 679, singly or in combination, may be taken for a total of no more than 8 hours of credit.

671 Continuous and Discrete Mathematics for Elementary and Middle School Teachers. (3)
Fundamental concepts and applications of calculus and discrete mathematics.
Prerequisite: MATHS 514 or permission of the department chairperson.

675 Measure Theory and Integration 1. (3)
The concept of measurability, simple functions, properties of measures, integration of positive as well as complex functions, sets of measure zero, Riesz representation theorem, Borel and Lebesgue measures, LP-spaces, approximation by continuous functions, elementary Hilbert space theory.
Prerequisite: MATHS 472 or 572.

676 Measure Theory and Integration 2. (3)
Banach spaces, Baire’s theorem, Hahn-Banach theorem, complex measures, total variation, absolute continuity, Radon-Nikodym theorem, bounded linear functionals on LP, the Riesz representation theorem, differentiation of measures, the fundamental theorem of calculus, integration on product spaces, the Fubini theorem, completion of product measures, convolutions, distribution functions.
Prerequisite: MATHS 675.

677 Complex Variables 1. (3)
Complex number systems, differentiation and integration, functions (analytic, entire, meromorphic) of one complex variable, singularities, complex integration, Cauchy’s theorem, Cauchy’s integral formula, power series, Laurent series, calculus of residues.
Prerequisite: MATHS 471 or 571.

678 Complex Variables 2. (3)
Analytic continuation, Riemann surfaces, theorems of Weierstrass and Mittag-Leffler, solution of two-dimensional potential problem, conformal mapping, Schwartz-Christoffel transformations and their applications.
Prerequisite: MATHS 677.

679 Special Studies in Analysis. (1-8)
Individual work under the direction of a faculty member of the department; will involve assigned reading and reports and may involve class attendance in related courses.
Prerequisite: permission of the department chairperson.
A total of 8 hours of credit may be earned. MATHS 619, 669, and 679, singly or in combination, may be taken for a total of no more than 8 hours of credit.

680 Special Studies in the Teaching of Mathematics. (1-6)
The student will work under the direction of a staff member in the Department of Mathematical Sciences. Assigned reading and reports; possible class attendance in related courses.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

689 Research Methods in Mathematics and Statistics. (3)
The scientific method in mathematical research. Location of relevant journal articles, reference books, and reviews. Development of research and problem-solving techniques. Each student will write a mathematical paper. The instructor will assist students whose work is of exceptional quality in submitting their results for publication.

690 Curriculum and Instruction in Mathematics Education. (3)
Focuses on the
mathematics curriculum, with emphasis on current issues and trends, on teaching strategies, and standards-based teaching. Looking at mathematics curriculum from a K-12 perspective, we will work on understanding these recommendations in light of previous mathematics curriculum experiences.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

691 Developmental Instruction in Mathematics. (3) Materials and methods used in developing conceptual understanding of mathematics for all students in elementary school, middle school, high school, and community college. Includes assessment and remediation techniques.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

693 Problem Solving and Communication in Mathematics. (3) Knowledge and skills for teaching and learning mathematics through problem solving. Knowledge and skills for orchestrating oral and written communication to promote mathematical reasoning in student-centered mathematics classrooms.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

694 Research Methods in Mathematics Education. (3) Research analysis and methodology in mathematics education.

Prerequisite: at least one year of teaching experience, and 18 hours of graduate credit in mathematics or mathematics education, including 690 and either 632 or 695, or permission of the department chairperson.

695 Learning Theories in Mathematics Education. (3) In-depth study of learning theories; discussion of the psychology of mathematics learning (i.e., what we know about the ways in which students learn mathematics). These issues will be discussed from a “teacher’s perspective,” looking for classroom implications of our knowledge about K-12 students’ mathematical thinking.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

696 Action Research in Mathematics Education. (3) Teachers conduct an action research project in a mathematics classroom and present their findings in a written report.

Prerequisite: MATHS 694 or permission of the department chairperson.

697 Teacher Leadership in Mathematics Education. (3) Development of strategies and skills for teacher leadership in mathematics education, with a focus on models for professional development of mathematics teachers.

Prerequisite: MATHS 690, 694.

698 Actuarial Science Exit Survey. (0) This 0-credit course consists of an exit survey that should be completed by all students who attain an MA in Actuarial Science from Ball State University. The survey will ask students about professional actuarial exams completed prior to graduation, actuarial internships held during their time in the program, and their employment or education plans after graduation.

Prerequisite: students will either have completed all course requirements for an MA in Actuarial Science or will complete all requirements by the end of the current semester.

699 Seminar in Mathematics. (1-6) For students who wish to pursue some particular problem or group of problems in mathematics. Assigned readings and conferences. A total of 6 hours of credit may be earned.
ANATOMY (ANAT)

Prerequisite: admission to the medical education program.

606 Medical Neuroanatomy. (4) Normal structural and functional organization of the human central nervous system as a background for the interpretation of its dysfunction. Assumes prior knowledge of human peripheral nervous system and effector mechanisms. Two-and-one-half hour lecture plus four hours of laboratory weekly.
Prerequisite: ANAT 601.

631 Medical Histology-Embryology. (5) Normal and abnormal developmental processes related to the differentiation of tissues and organs; microscopic study of organs and tissues as background for physiological and pathological consideration.
Prerequisite: admission to the medical education program.

BIOLOGY (BIO)

642 Medical Microbiology. (8) Microbiology for medical students with consideration of bacteria, fungi, viruses, and parasites as agents in human disease and the immunological and serological aspects of the host-parasite relationship.
Open only to medical students or by permission of the department chairperson.

653 Medical Genetics. (2) Genetics for medical students: basic genetic principles, human cytogenetics, molecular genetics, genetic epidemiology, probability, population and quantitative (multifactorial) genetics, dermatoglyphics, etiology of birth defects, inborn metabolic disorders, genetic screening and counseling, genetics of mental illness and cancer, pharmacogenetics, immunogenetics, and genetic engineering.
Prerequisite: open only to medical students or by permission of the department chairperson.

CHEMISTRY (CHEM)

667 Medical Biochemistry. (6) Chemistry of major cellular constituents; enzymes as the catalysts of intracellular chemical reactions with emphasis on underlying principles of physical and organic chemistry. Intermediary metabolism of carbohydrates, lipids, amino acids, and nucleotides; modern techniques employed in the study of metabolic processes; biosynthesis and degradation of intracellular components; hormonal regulation of metabolism.
Prerequisite: admission to the medical education program.

PHYSIOLOGY (PHYSL)

640 Medical Physiology. (8) Summary of human physiology for medical students. Cellular and organ-system physiology; physiological regulation. Laboratory exercises will demonstrate general principles of physiology and introduce basic techniques and instrumentation.
Prerequisite: admission to the medical education program.

645 Emergency Medicine. (2) Designed to develop an awareness of proper diagnosis and treatment during emergency medical care by professional medical personnel. Fractures; environmental emergencies; injuries to the eye, chest, abdomen; shock; and wound care.
Prerequisite: admission to the medical education program.
CLASSICAL CULTURE (CC)

598 Reading Course. (3-9) An arranged course in selected readings.
   Prerequisite: permission of the department chairperson.
   A total of 9 hours of credit may be earned.

FOREIGN LANGUAGES (FL)

590 Independent Study. (1-9) Topics to be chosen and investigated in consultation with a specific instructor.
   A total of 9 hours of credit may be earned.

595 Methods and Materials for Teaching Foreign Language. (3) Current methods in foreign language teaching in the senior high school. Presentation, texts, teaching materials, CAI, and other supplementary aids. Reviews current professional literature, trends, and requirements.
   Prerequisite: two years of college credit or the equivalent in a modern language and intention to pursue a teaching curriculum.
   Prerequisite recommended: EDSEC 380.

   Prerequisite recommended: FL 595.
   Open only to education majors or minors.

599 Research Seminar. (3) Introduction to research in foreign languages and literature. Survey, discussion, evaluation, and application of research techniques in literary study, methodology, bibliography, and practical criticism.

FRENCH (FR)

500 French Study Abroad. (3-9) Study of advanced French language, literature, and culture in a country where French is the native language. May include seminars arranged during travel.
   A total of 9 hours of credit may be earned.

501 Advanced Conversation. (3-6) Advanced practice in oral French to increase fluency and authenticity through discussion and debate.
   A total of 6 hours of credit may be earned in combination with FR 301.

502 Composition and Stylistics. (3-6) Advanced practice in original composition with emphasis on style and stylistics.
   A total of 6 hours of credit may be earned in combination with FR 302 or 303.

503 Advanced Grammar. (3) Advanced, in-depth study of French grammar with work in French-English translation.

534 Contemporary France. (3) Present-day France and French institutions viewed in the context of French perceptions of the family, education, politics, the judicial system, the economy, and religion. Supplementary readings in current newspapers and periodicals.
   Prerequisite: FR 201, 202.
   Not open to students who have credit in FR 404.

538 Business French. (3) Designed to make the advanced French student familiar with commercial forms and terminology used in business, banking, and industry.
   Not open to students who have credit in FR 338.

550 Workshop in Contemporary Francophone Issues. (3-6) For inservice teachers who want to increase their proficiency in speaking and hearing the French language and
their understanding of issues in present-day France and French-speaking countries.

Prerequisite: at least one year’s teaching experience.

A total of 6 hours of credit may be earned.

598 Readings. (3-9) Individualized reading or research to allow students to explore special topics with a specific instructor. Designed to meet the needs of graduate students who have special projects in French.

A total of 9 hours of credit may be earned.

599 Bibliography and Readings. (3) Major works, primary and secondary sources in French language, literature, culture, and teaching.

Prerequisite: 15 hours of graduate credit in French and permission of the department chairperson.

GERMAN (GER)

500 German Study Abroad. (3-9) Study of advanced German language, literature, and culture in a country where German is spoken as a native language. May include seminars arranged during travel.

A total of 9 hours of credit may be earned.

501 Advanced Conversation. (3-6) Advanced practice in oral German to increase fluency and authenticity in the language.

A total of 6 hours of credit may be earned.

502 Composition and Stylistics. (3-6)
Advanced practice in written German with emphasis on style and stylistics.

A total of 6 hours of credit may be earned.

550 Workshop in Contemporary German Issues. (3-6) For inservice teachers who want to increase their proficiency in speaking and hearing the German language and their understanding of issues in present-day Germany and German-speaking countries.

Prerequisite: at least one year of teaching experience.

A total of 6 hours of credit may be earned.

598 Readings. (3-9) Individualized reading or research to allow students to explore special topics with a specific instructor. Designed to meet the needs of graduate students who have special projects in German.

A total of 9 hours of credit may be earned.

GREEK (GRK)

598 Readings. (1-9) Individualized readings or research to allow students to explore special topics with an individual instructor. Designed to meet the needs of graduate students who have special projects in Greek.

Prerequisite: permission of the instructor.

A total of 9 hours of credit may be earned.

JAPANESE (JAPAN)

598 Readings. (1-9) Individualized readings or research to allow students to explore special topics with an individual instructor. Designed to meet the needs of graduate students who have special projects in Japanese.

Prerequisite: permission of the instructor.

A total of 9 hours of credit may be earned.

LATIN (LAT)

501 Didactic Poetry. (3) Selected readings from Lucretius, Vergil’s Georgics, or Ovid’s Ars Amatoria.

502 Advanced Prose Composition. (3-6) A detailed grammar review, analysis of Latin prose style, composition of extended passages in Latin.

A total of 6 hours of credit may be earned.

507 Cicero. (3) Selected readings from Cicero’s rhetorical and philosophical works.

508 Republican Historiography. (3) Selected readings from Caesar, Sallust, Nepos.

509 Imperial Historiography. (3) Selected readings from Livy, Tacitus, Suetonius.

510 Roman Drama. (3) Selected readings from Plautus, Terence, or Seneca.

512 Lyric Poetry. (3) Selected readings from Catullus or Horace’s odes and epodes.
513 Elegiac Poetry. (3) Selected readings from the elegiac poems of Tibullus, Propertius, and Ovid.  
       Not open to students who have credit in LAT 304.

514 Vergil: Aeneid. (3) Selected readings.

515 Satire. (3) Selected readings from Horace, Persius, Martial, Juvenal.

516 Silver Latin Epic. (3) Selected readings from Ovid’s Metamorphoses, Lucan, or Statius.  
       Not open to students who have credit in LAT 301.

522 Silver Latin Prose. (3-6) Selected readings from Petronius, Seneca the Younger, Quintilian, Pliny the Younger, Apuleius.  
       A total of 6 hours of credit may be earned.

525 Workshop for Teachers. (3) For inservice teachers wishing to improve their personal proficiency and update teaching methods and techniques.  
       Prerequisite: at least one year of teaching experience.

598 Readings. (3-9) Individualized readings or research allows students to explore special topics with a specific instructor.  
       A total of 9 hours of credit may be earned.

SPANISH (SP)

500 Spanish Study Abroad. (3-9) Study of advanced Spanish language, literature, and culture in a country where Spanish is the native language. May include seminars arranged during travel.  
       A total of 9 hours of credit may be earned.

501 Advanced Conversation. (3-6) Advanced practice in oral Spanish to increase fluency and authenticity through activities, discussion, and debate.  
       A total of 6 hours of credit may be earned.

502 Composition and Stylistics. (3-6) Advanced practice in original composition with emphasis on style and stylistics.  
       A total of 6 hours of credit may be earned.

503 Advanced Grammar. (3) Advanced, in-depth study of Spanish grammar with emphasis on analysis and creative expression in the language.

511 Spanish Literature from the Seventeenth through the Nineteenth Century. (3) The history of Spanish literature from the latter part of the Golden Age through late Romanticism. Representative works and authors.

512 Latin American Literature through the Nineteenth Century. (3) Major works of Spanish American literature from the chronicles to modernism.

519 Twentieth-Century Spanish Literature. (3) Acquaints students with the major literary works (in all genres) reflecting changing currents in Spanish life and thought during this century. Readings will include works of the Generation of ’98, the Generation of ’27, and post-Civil War works.

534 Contemporary Spain. (3) Present-day Spain and Spanish institutions viewed in the light of Spanish perceptions. Topics vary according to changing conditions and problems.  
       Not open to students who have credit in SP 334.

535 Contemporary Latin America. (3) Elements of present-day problems and conditions in various countries or areas of Latin America. Topics vary according to changing conditions and problems.  
       Not open to students who have credit in SP 335.

537 Special Language Skills. (3-9) Topics vary and will be announced. Topics may be, among others, advanced study in phonetics, composition, linguistics, Spanish-English translation, or Spanish for the professions.  
       A total of 9 hours of credit may be earned.
Not open to students who have credit in SP 337.

538 Business Spanish. (3) Designed to make advanced Spanish students familiar with commercial forms and terminology used in business, banking, and industry. 
Not open to students who have credit in SP 338.

548 Twentieth-Century Latin American Literature. (3) Main trends in Spanish American literature (in all genres) since modernism. Includes modernism, realism, postmodernism, and recent literary trends.

550 Workshop on Contemporary Issues. (3-6) For inservice teachers wishing to improve their proficiency in contemporary Spanish usage.

Prerequisite: at least one year’s teaching experience.
A total of 6 hours of credit may be earned.

598 Readings. (3-9) Individualized reading or research to allow students to explore special topics with a specific instructor. Designed to meet the needs of graduate students who have special projects in Spanish.
A total of 9 hours of credit may be earned.

599 Bibliography and Readings. (3) Major works, primary and secondary sources in Hispanic language, literature, culture, and teaching.
Prerequisite: 15 hours of graduate credit in Spanish.

NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT

www.bsu.edu/nrem
West Quadrangle 110, 765-285-5780

PROGRAMS

Master of arts (MA) in natural resources and environmental management and master of science (MS) in natural resources and environmental management.

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science. Specializations within the program include: environmental management, environmental education and communication, international resource management, land management, occupational and industrial hygiene, park and recreation management, and sustainable development.

Admission requirements

Applicants must meet the admission requirements of the Graduate School, take the Graduate Record Examination (GRE), complete the departmental application form, and provide letters of recommendation. Applicants whose undergraduate majors are not natural resources or closely related subjects may be required to complete undergraduate courses to acquire background knowledge. Credit for these courses does not apply to graduate degree requirements.

MASTER OF ARTS IN NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT

Degree requirements

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Electives include other NREM courses and relevant courses from other departments to be approved by the graduate advisor 24
MASTER OF SCIENCE IN NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT

Degree requirements

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Electives include other NREM courses and relevant courses from other departments to be approved by the graduate advisor 21

33 hrs

Facilities and Special Programs

Facilities consist of teaching and research laboratories, lecture and discussion class-rooms, a computer lab, a darkroom, a student reading room, and a seminar-conference room. All classrooms and laboratories are accessible to students with disabilities.

University-owned properties—the Hults Environmental Learning Center, Christy Woods, Ball State Wildlife Preserve, and Ginn-Nixon Woods—near the Ball State campus serve as field laboratories for teaching and research. The city of Muncie and surrounding areas offer first-hand study of environmental issues such as air, water, and soil quality, energy issues, land-use planning, and recreational management.

Research equipment includes state-of-the-art instrumentation for analysis of a variety of contaminants of air, water, and land.

Each summer the department sponsors field courses in which students travel to diverse locations for study. Past field courses have studied resource management in the American West, the Great Lakes states, the Appalachians, Central America, and Europe.

In addition to off-campus field courses, the department offers practicum opportunities with federal, state, and private agencies in various facets of resource management.

CERTIFICATE IN EMERGENCY MANAGEMENT AND HOMELAND SECURITY

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15 hrs

NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT (NREM)

502 Field Study. (1-6) Off-campus field studies of a specific geographic area with emphasis on resource management. Details of arrangements (including group travel plans and housing) will be provided by the instructor.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

504 Sustainable Agriculture. (3) Natural resource use in agricultural systems with emphasis on principles of sustainability. Includes integrated pest management, permaculture, and other production practices that conserve soil, water, and biological resources. Field trips included.

Not open to students who have credit in NREM 304.
505 Integrated Resource Management. (3)
Systems perspective on holistic or integrated planning and management of natural resources. Stresses data analysis and its role in the decision-making process.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in NREM 405.

507 Environmental Management in Developing Countries. (3)
Survey of challenges facing management of urban environments and the rural-urban interface in the developing nations of Asia, Africa, Latin America, and Pacific Oceania. Features interdisciplinary approach with frequent guest speakers to discuss existing and potential management, economic, technical, and policy solutions in their regional, cultural, and historical contexts.

Not open to students who have credit in NREM 307.

509 Human Dimensions of Global Change. (3)
Systematic exploration of major topics of human and environmental change from local to global scales, including population, energy, agriculture, industry, technology, urbanization, water, climate, natural hazards, socioeconomic systems, land use, trade, marginalized societies, and biodiversity.

Not open to students who have credit in NREM 309.

511 Water Resources. (3)
Hydrologic cycle and climate as a basis for water resources distribution and management. U.S. and international water resources issues: U.S. water allocation laws, national and international water conflicts, water quality, drinking water and wastewater treatment, surface and ground water hydrology, municipal water resources development. Includes laboratory and field work and a graduate-level research project.

515 Water Quality Management. (3)
Effects, consequences of point and non-point sources of pollution on quality of surface and drinking water; occurrence, sources and effects of regulated and unregulated contaminants; role of regulations in water quality management in U.S., centralized drinking water and wastewater treatment. Laboratory analysis of water quality parameters; may include field work.

Prerequisite: NREM 511 or permission of the department chairperson.

520 Wetland Characterization. (3)
Study of wetland functions and values. Delineation of wetland boundaries according to the U.S. Army Corps of Engineers criteria (wetland hydrology, hydric soils, hydrophytic vegetation). Includes a substantial component of field work.

Prerequisite: permission of the department chairperson.

521 Soil Resources. (3)
The basic properties of the soil portion of the ecosystem. Prime emphasis on the genesis and resulting chemical and physical characteristics of soils. Includes a graduate-level research project.

Prerequisite: CHEM 112, or the equivalent; or permission of the department chairperson.

522 Soil Quality. (3)
Chemical, physical, and biological properties of soil that affect plant production and other land uses. Emphasizes nutrient cycles in natural and cropped systems. Use and fate of pesticides. Land application of agricultural and urban wastes.

Prerequisite: CHEM 111 or equivalent; or permission of the department chairperson.

524 Soil Classification and Interpretation. (3)
Soil genesis, morphology, classification, and survey. The relationship between soils information and land use; practical application in the decision-making process. Emphasizes field study of soils and their uses.

Not open to students who have credit in NREM 324.

527 Soil Conservation and Management. (3)
Principles and methods of controlling soil erosion, stressing use of basic soil concepts. Management systems and individual practices, with special emphasis on soil resource maintenance.

Not open to students who have credit in NREM 327.
531 Energy and Mineral Resources: Issues and Choices. (3) Appraisal of the problems, prospects, and societal and technical issues surrounding the use of energy and mineral resources. Emphasizes environmental problems and ecoenergetics, consideration of the natural resource base, distribution and production problems, conservation, alternative energy systems, resource policy, and research.

Not open to students who have credit in NREM 331.

535 Renewable Energy and Sustainable Technology. (3) Exploration of alternative/renewable energy systems (wind, solar, hydro, biomass, geothermal, fuel cells). Case studies of sustainable technology emphasize topics including industrial ecology (life-cycle analysis, design for the environment, clean manufacturing, and impact assessment) and appropriate technology applications in developing countries. Problem-solving applications using various approaches.

Not open to students who have credit in NREM 335.

541 Air Quality. (3) Focuses on the contamination of the atmospheric environment. Topics include major contaminants; measurement techniques; dispersion; effects on the atmosphere, human health, vegetation, and materials; regulatory requirements and practices; control measures; noise pollution. Lab and field experiences.

Not open to students who have credit in NREM 241.

546 Indoor Environmental Quality. (3) Focuses on problems in residential and nonresidential indoor environments; contaminants; health effects; sick buildings; diagnosis and measurement; mitigation measures. Lab and field experiences.

Not open to students who have credit in NREM 346.

547 Occupational/Industrial Hygiene. (3) Introduces the principles of assessing and controlling exposures to workplace hazards. Topics include occupational disease; exposure to contaminant gases, dusts, radiation, noise, and biological agents; ergonomic concerns; regulatory requirements; engineering control and personal protection equipment.

Not open to students who have credit in NREM 347.

548 Asbestos and Lead Management. (3) Principles and practices associated with conducting asbestos and lead inspections and exposure hazard assessments. Discussion of use, health effects, assessment methods, and regulatory requirements. State certifications available on successful completion. Field and hands-on experiences.

Not open to students who have credit in NREM 348.

553 Turfgrass Management. (3) Maintenance of turfgrass lawns, golf courses, athletic fields, playgrounds, parks, and roadsides. Practical management recommendations including regional adaptation of grasses, soils, fertilization, general maintenance practices, diseases, and insect control. Stresses the identification of grass and weed species.

557 International Community Development. (3) Application of practical methods to problems of development in poor rural agrarian communities and environmental management in poor urban communities in Asia, Africa, and Latin America. Emphasizes face-to-face methodologies to the identification and development of workable solutions to resource and environmental problems of disadvantaged populations in developing nations.

Not open to students who have credit in NREM 357.

571 Outdoor Recreation and Society. (3) The role of outdoor recreation in modern society. Perspectives ranging from local to global. Examination of the history of growth in outdoor recreation in the United States to the present day, emphasizing issues in both public and private sectors. May require one weekend field trip in addition to regular laboratory periods.

Not open to students who have credit in NREM 371.
572 Applied Research Methods in Resource Management. (3) Designed to train students in social science applications in natural resource and environmental management. These applications include quantitative and qualitative survey research designs, analysis of social data, and applications of survey results to political processes. Perspectives range from local to international.

Not open to students who have credit in NREM 372.

573 Outdoor Recreation Planning and Administration. (3) Application of basic principles and procedures for the planning and administration of resource-based and activity-based recreation areas. May require one weekend field trip as well as in-class field trips.

Prerequisite: NREM 371 or 571 or permission of the department chairperson.

Not open to students who have credit in NREM 473.

577 Wilderness and Society. (3) Defining wilderness, understanding its unique significance, and analyzing techniques of past and present management. Includes study of research in perception and use. Weekend trip to the Deam Wilderness—Hoosier National Forest or a state forest back-country area.

Not open to students who have credit in NREM 477.

581 Site Remediation Technologies. (3) Engineering principles applied to selected environmental problems. Underground storage tank closure and removal; environmental site assessments; remediation of severely disturbed environments; site safety issues. Some environmental chemistry.

Prerequisite: NREM 221 or 521; CHEM 111, 112; or permission of the department chairperson.

Not open to students who have credit in NREM 481.

585 Wastewater Management. (3) Effects of wastewater on receiving waters, need for wastewater treatment, principles of wastewater treatment technologies: onsite, centralized, conventional and alternative treatment technologies; management and regulatory strategies. Includes field trip(s).

Not open to students who have credit in NREM 385.

586 Computer Applications in Environmental Management. (3) Use of computer software applications for data analysis and management of natural and human-controlled environments. Work with word processors, spreadsheets, statistical analysis packages, presentation graphics, Web browsers/editors, and computer simulation models. Requires basic understanding of computer operation.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in NREM 286.

Open only to NREM majors.


Not open to students who have credit in NREM 387.

588 Site Assessment and Remediation. (3) Experience with Phase I and Phase II environmental site assessments. Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry.

Prerequisite: CHEM 231 or permission of the instructor.

592 Environmental Interpretation. (3) Develops skills and techniques necessary to the interpretation of ecological and environmental characteristics of earth systems. Emphasizes field work and creative presentation of concepts, and organization and management of interpretive programs including sites and facilities.

Not open to students who have credit in NREM 392.
595 Teaching Environmental Education. (3)
Opportunities for enriching instruction through environmental education in formal and nonformal educational settings. Studies conservation, outdoor and environmental education, including teaching techniques and instructional resources used in each.

Not open to students who have credit in NREM 395.

597 Special Studies in Environmental and Natural Resource Sciences. (1-3) Special academic study opportunities in the environmental and natural resource sciences.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

608 Research Methodologies in Natural Resources and Environmental Sciences. (3)
Development of concepts and skills for those preparing for graduate research in natural resources and environmental sciences. Introduction to research designs, data-gathering techniques, data analysis, and research planning. Emphasizes interpreting published research and the drafting of a concise research proposal.

609 Seminar. (3) Presentations of graduate student research or program projects. Discussion and critical examination of resource/environmental topics. Assessment of scientific inquiry by data analysis and interpretation.

Prerequisite: NREM 608 or permission of the department chairperson.

669 Advanced Professional Practice. (1-3) Advanced supervised professional learning experiences in environmental/natural resource management, studies, or education.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

697 Advanced Topics in Environmental and Natural Resource Management. (1-3) Advanced special topics course in environmental and natural resources management.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY (EMHS)


Not open to students who have credit in EMHS 350.

551 Introduction to Emergency Management and Homeland Security. (3) Introduction to principles of emergency management and homeland security such as preparedness, response, recovery, and mitigation. Other concepts include hazards, communications, management, health issues, and tools utilized in emergency management. Discussion of relevant issues from a multi-disciplinary approach.

Not open to students who have credit in EMHS 351.

552 Science of WMDs and Technological Hazards. (3) Application of scientific principles to technological hazards including biological, chemical, radiological, nuclear and explosive weapons (weapons of mass destruction). Discussion of relevant principles in biology, chemistry, physics, and other sciences. Effects of hazards on air, water, food supplies, and human health.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>593</td>
<td>Special Topics. (1-6)</td>
<td>Provides an opportunity to conduct independent study of emergency management and homeland security topics of special interest to students.</td>
<td>A total of 6 hours of credit may be earned.</td>
</tr>
<tr>
<td>669</td>
<td>Professional Practice. (1-3)</td>
<td>Supervised experience in emergency planning and management, science of hazards, and/or cyber security. Connects academic with professional experiences.</td>
<td>A total of 3 hours of credit may be earned.</td>
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<tr>
<td>500</td>
<td>History of Ancient Philosophy. (3)</td>
<td>Development of philosophical theories and ideas from the rise of philosophy in Greece through the medieval period. Emphasizes the theories in relation to one another, the times that produced them, and the thinkers who offered them.</td>
<td>Not open to students who have credit in PHIL 300.</td>
</tr>
<tr>
<td>503</td>
<td>Reading and Special Study. (3)</td>
<td>For superior students: guided reading and investigation in topics in philosophy not covered intensively in available courses.</td>
<td>A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<tr>
<td>505</td>
<td>Ethics. (3-6)</td>
<td>Variable content course involving a critical examination of broad topics in applied ethics or a critical examination of historical or current ethical theories and their application of contemporary problems.</td>
<td>Not open to students who have credit in PHIL 415, 420.</td>
</tr>
<tr>
<td>510</td>
<td>Introduction to Theory of Knowledge. (3)</td>
<td>A critical discussion of leading theories and problems of knowledge. The condition of knowledge and rational belief, the different kinds of knowledge, the nature of truth, and the challenge of skepticism. Not open to students who have credit in PHIL 410.</td>
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<tr>
<td>513</td>
<td>Philosophy of Science. (3)</td>
<td>Central philosophical problems in the sciences such as the nature of scientific explanation, the testing of hypotheses, and ethical issues arising from science; for example, the use of human subjects in experimentation and prolonging life. Not open to students who have credit in PHIL 313.</td>
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</tr>
<tr>
<td>503</td>
<td>Reading and Special Study. (3)</td>
<td>For superior students: guided investigation of topics related to religion not covered intensively in other available courses.</td>
<td>Prerequisite: permission of the department chairperson. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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**PHILOSOPHY AND RELIGIOUS STUDIES**

www.bsu.edu/philosophy
North Quadrangle 211, 765-285-1244

**PHILOSOPHY (PHIL)**

500 History of Ancient Philosophy. (3) Development of philosophical theories and ideas from the rise of philosophy in Greece through the medieval period. Emphasizes the theories in relation to one another, the times that produced them, and the thinkers who offered them. Not open to students who have credit in PHIL 300.

503 Reading and Special Study. (3) For superior students: guided reading and investigation in topics in philosophy not covered intensively in available courses. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

505 Ethics. (3-6) Variable content course involving a critical examination of broad topics in applied ethics or a critical examination of historical or current ethical theories and their application of contemporary problems. A total of 6 hours of credit may be earned. Not open to students who have credit in PHIL 415, 420.

510 Introduction to Theory of Knowledge. (3) A critical discussion of leading theories and problems of knowledge. The condition of knowledge and rational belief, the different kinds of knowledge, the nature of truth, and the challenge of skepticism. Not open to students who have credit in PHIL 410.

513 Philosophy of Science. (3) Central philosophical problems in the sciences such as the nature of scientific explanation, the testing of hypotheses, and ethical issues arising from science; for example, the use of human subjects in experimentation and prolonging life. Not open to students who have credit in PHIL 313.

**RELIGIOUS STUDIES (RELST)**

503 Reading and Special Study. (3) For superior students: guided investigation of topics related to religion not covered intensively in other available courses. Prerequisite: permission of the department chairperson. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

**PHYSICS AND ASTRONOMY**

www.bsu.edu/physics
PROGRAMS

The department offers programs in professional physics that lead to the master of arts (MA) degree or master of science (MS) degree. A student may also select a program of study in physics education for prospective high school teachers of physics, which leads either to the master of arts (MA) or to the master of science (MS) degree, or the master of arts in education (MAE) in physics. The MA, MS, and MAE degree programs require a minimum of 30-33 hours, 6 of which may consist of courses in a minor area or electives in a related discipline. A student’s curriculum must include a minimum of 24 hours of physics, applied physics, or astronomy, as approved by the department, which may include credit for successful completion of a thesis or research paper.

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and the Department of Physics and Astronomy and take the Graduate Record Exam (GRE) or an equivalent test.

MASTER OF ARTS IN PHYSICS

Degree requirements

Requires the student to write a research paper on a research project in physics or physics education. The research paper earns a total of 3 hours of credit.

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<tr>
<td>PHYCS</td>
<td>534</td>
<td>Thermodync (3)</td>
<td>3</td>
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Research requirement

RES 697 Research Ppr (1-3) 3

Minors and electives as approved by the department 0-6

33 hrs

MASTER OF SCIENCE IN PHYSICS

Degree requirements

Requires a 6-hour thesis, which is normally a formal report on the student’s research in some feature of experimental, theoretical or computational physics, or physics education.

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<tr>
<td>PHYCS</td>
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<td>Quant Mech</td>
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<td>675</td>
<td>Thermal Phys</td>
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<td></td>
<td>683</td>
<td>Seminar (1-4)</td>
<td>3</td>
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Research requirement

6-12
THES 698 Thesis (1-6) 6
Minors and electives as approved by the department 0-6

33 hrs

Topics for research leading to an MS or MA degree may include applied nuclear (Radon) studies; condensed matter/nanostructure studies; observational stellar astronomy, galactic structure, and extragalactic astronomy; solar energy applications; microprocessor-based instrumentation, computer vision; radiocarbon dating; elementary particle physics (Ball State University/Fermi Lab); physics studies applied to policies on arms control, energy, and the environment; and physics education.

If the student chooses experimental physics as a research topic, it normally will be in one of the above areas for which laboratory and apparatus are available. However, it is possible for research to be conducted at a cooperating industrial or national research and development laboratory or educational institution. For research in both experimental and theoretical physics, remote access to the university’s central computer is available; students also have access to desktop computers in the department. Students’ choices of research topics must be approved by the department.

Assistantships

Normally students who are awarded graduate assistantships will need about two years to complete work for the master’s degree. Students should allow a minimum amount of time equivalent to about three semesters of thesis research for initial approval, completion, and final acceptance by the department and Graduate School.

MASTER OF ARTS IN EDUCATION IN PHYSICS

Admission requirements

Applicants must meet the admission requirements of the Graduate School and the Department of Physics and Astronomy and take the Graduate Record Exam (GRE) or an equivalent test.

Designed for students choosing a profession in public school teaching. Candidates must possess a valid teaching license or be in the process of securing a senior high, junior high/middle school, or secondary school teaching license.

Degree requirements

Requires students to write research papers on research projects in physics, astronomy, physics education, or astronomy education. The research paper earns a total of 3 hours of credit.

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<th>PREFIX NO</th>
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<tr>
<td>12-18 hours from APHYS, ASTRO, PHYCS as approved by the department</td>
<td>12-18</td>
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<tr>
<td>9 hours from Professional Education Core</td>
<td>9</td>
<td></td>
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<tr>
<td>0-6 hours from Minors and nondepartmental electives as approved by the department</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Research requirement RES 697 Research Ppr (1-3)</td>
<td>3</td>
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30 hrs

APPLIED PHYSICS (APHYS)

510 Introduction to Nanoscience and Technology. (3) Explores science and technology at the nanoscale. Studies the physical properties of nanomaterials, the tools and techniques for nanosystem fabrication and investigation; principles of mechanical, optical, electrical, and magnetic nanosystems; current state of technology in physics, chemistry, biology, engineering, and information systems; and future applications.

Prerequisite: PHYCS 260.

512 Fundamentals of Nanomaterials Growth and Device Fabrication. (4) Introduces basic
experimental techniques in: nanomaterials growth, nanodevices fabrication, and materials and devices characterization. Introductory laboratory in the field of nanoscience and technology. Intended for those interested in semiconductor technology or experimental work in general.

Prerequisite: PHYCS 260 or permission of the department chairperson.

515 Medical Physics 1. (3) Biomechanics, statistical physics, bioelectric fields, biomagnetic fields, electricity, and magnetism at the cellular level.

Prerequisite: permission of the department chairperson or instructor.

Not open to students who have credit in APHYS 315.

516 Medical Physics 2. (3) Signal analysis, images, biomagnetism, x-rays, nuclear medicine, magnetic resonance imaging.

Prerequisite: permission of the department chairperson or instructor.

Not open to students who have credit in APHYS 316.

520 Solar Thermal Systems. (3) Physics of the solar energy resource, solar collection, concentration, thermal conversion, energy storage, and the design and performance of solar thermal energy systems.

Prerequisite: PHYCS 122; MATHS 162 or 166.

Not open to students who have credit in APHYS 420.

522 Photovoltaics. (3) Physics of photovoltaic systems, including basic operating principles, design and technology, and performance of individual solar cells and solar cell systems.

Prerequisite: PHYCS 260; MATHS 162 or 166.

Not open to students who have credit in APHYS 422.

ASTRONOMY (ASTRO)

530 Astronomy and Astrophysics 1. (4) A review of mechanics, electromagnetic radiation, and atomic structure in modern observational astrophysics. Solar system astrophysics—including an introduction to celestial mechanics and astronomical coordinate and time systems—are surveyed, and astronomical instruments are discussed.

Prerequisite: ASTRO 122; PHYCS 122.

Not open to students who have credit in ASTRO 330.

532 Astronomy and Astrophysics 2. (4) An examination of observational stellar astronomy with applications to the study of stellar structure and evolution and a review of the physics of stellar systems like star clusters, galaxies, and clusters of galaxies.

Prerequisite: ASTRO 530.

Not open to students who have credit in ASTRO 330.

580 Seminar in Modern Astronomy. (3) Seminar covering selected topics in contemporary astronomy. Extensive use of library facilities including current journals and periodicals in astronomy. Discussions of current astronomical research.

Prerequisite: permission of the instructor.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Not open to students who have credit in ASTRO 380 under the same title.

582 Instruments and Techniques in Planetarium Operations. (3) Use of planetarium instruments, console, and chamber. Organization and evaluation of planetarium programs and exhibits.

Prerequisite: ASTRO 122 or permission of the department chairperson.

Not open to students who have credit in ASTRO 382.

586 Instruments and Techniques of Astronomy Workshop for Teachers. (2) Observatory and laboratory experience in investigating the modern techniques of imaging in observational astronomy. Characteristics of telescopes, CCD cameras, film and emulsions, electronic data acquisition, and processing systems. Methods of reducing raw data.
602 Observational Astronomy Workshop for Teachers. (3) Lecture/laboratory- oriented course that prepares middle and high school teachers to explain celestial events, plan observing sessions, and use star charts and planetaria-type computer software. Introduces image acquisition and software to extract meaningful data.

Not open to students who have credit in PHYCS 602.

604 Physical Foundations of Astronomy Workshop for Teachers. (3) Lecture/ laboratory-oriented course that introduces middle and high school teachers to basic principles of physics presented in the context of modern astronomy and astrophysics. Fundamentals of mechanics and celestial mechanics and their applications to space exploration, as well as fundamental principles in optics and the structure of matter are discussed.

Not open to students who have credit in PHYCS 604.

606 Stellar Evolution and Black Holes Workshop for Teachers. (3) Lecture/ laboratory-oriented course that introduces middle and high school teachers to the basic principles of stellar properties and stellar evolutions. Fundamental laws are reviewed in the context of pulsars, neutron stars, and black holes. Provides practical applications through hands-on experiences in how stellar properties are determined.

Prerequisite: ASTRO 604 or PHYCS 604 or permission of the instructor.

Not open to students who have credit in PHYCS 606.

PHYSICS (PHYCS)

530 Mechanics. (3) Basic concepts of mechanics, general motion of particles in three dimensions. Simple and damped harmonic motion. Particle dynamics in noninertial frames of reference, central forces. Dynamics of systems of particles. Motion of rigid bodies in three dimensions. Dynamics of oscillation systems.

Prerequisite: permission of the department chairperson.

534 Thermodynamics. (3) Laws of thermodynamics and introduction to the kinetic theory of gases. No regularly scheduled laboratory.

Prerequisite: PHYCS 330 or permission of the department chairperson.

Not open to students who have credit in PHYCS 434.

540 Physical Optics. (3) The electromagnetic wave theory of light; spectra, interference, diffraction, polarization, and double refraction.

Prerequisite: PHYCS 122.

Not open to students who have credit in PHYCS 340.

546 Acoustics. (3) Elements of pure and applied acoustics. Topics include solutions to the wave equation, acoustic impedances, electromagnetic-acoustic analogies, direct-radiator loudspeaker and enclosure theory, and room acoustics.

Prerequisite: PHYCS 122.

Not open to students who have credit in PHYCS 346.

550 Electricity and Magnetism 1. (3) Application of vector analysis to electrostatics, dielectric theory, magnetostatics, dipole and multipole fields, currents, and Maxwell’s equations.

Prerequisite: PHYCS 122; MATHS 267 or equivalent.

Not open to students who have credit in PHYCS 450.

552 Electricity and Magnetism 2. (3) The study of electric and magnetic fields in electrodynamics, Maxwell’s equation, EM waves, radiation of moving charges, and relativistic kinematics and dynamics.

Prerequisite: PHYCS 450, 550 or equivalent.

Not open to students who have credit in PHYCS 452.

554 Electronics I. (4) Introductory DC and AC circuit theory, semiconductor components,
power supplies, transistor amplification, integrated circuit operational amplifiers, active filters, oscillators, and function generators. Basic combinational logic circuits and Boolean algebra. Emphasizes application of integrated circuits.

Prerequisite: PHYCS 122 or permission of the department chairperson.

Not open to students who have credit in PHYCS 354.

556 Electronics 2. (4) Sequential logic circuits including scalars, displays, memories, shift registers, analog-to-digital and digital-to-analog conversion techniques. Microprocessor architecture and support electronics for microcomputer design. IC chips and circuits for experiment to microcomputer interfacing. Use of a microprocessor development system.

Prerequisite: PHYCS 354 or 554.

Not open to students who have credit in PHYCS 356.

560 Introductory Nuclear Techniques. (3) Experimental studies of radioactive disintegrations and decay products and their relationship to nuclear structure. Instrumentation in radioscope measurements. Two lectures and two two-hour laboratory periods a week.

Prerequisite: PHYCS 260.

Not open to students who have credit in PHYCS 360.

561 Elementary Particles. (3) Investigates the nature and behavior of elementary particles through the study of the symmetries and dynamics responsible for their production, reactions, and decays.

Prerequisite: PHYCS 464 or 564.

Not open to students who have credit in PHYCS 461.

563 Nuclear Physics. (3) The nucleus and nuclear interactions. Theoretical and experimental elements of radioactive decay and models of the nucleus.

Prerequisite: PHYCS 260.

Not open to students who have credit in PHYCS 463.

564 Introduction to Quantum Mechanics. (3) De Broglie’s postulate, the uncertainty principle, the Schroedinger equation, the free particle, square well potentials, harmonic oscillator, the hydrogen atom, and angular momentum in quantum mechanics, and other selected wave mechanics problems. No regularly scheduled laboratory.

Prerequisite: PHYCS 260.

Not open to students who have credit in PHYCS 464.

565 Quantum Mechanics. (3) Review of barrier problems, the harmonic oscillator, and angular momentum using matrix methods. Problems involving perturbation theory, one-electron atoms, magnetic moments, spin, relativistic effects, symmetric and anti-symmetric wave functions, the helium atom, transition rates, and scattering theory.

Prerequisite: PHYCS 464 or 564.

Not open to students who have credit in PHYCS 465.

566 Solid State Physics. (3) Structure and physical properties of matter in the solid state. Electrical and magnetic properties and band theory of solids, with special emphasis on semiconductors.

Prerequisite: PHYCS 260.

Not open to students who have credit in PHYCS 466.

570 Introductory Mathematical Physics 1. (3) Application of mathematical techniques to the formulation and solution of physical problems in classical mechanics, thermodynamics, and electromagnetic theory and in quantum mechanics. Topics include computer algebra systems and applications.

Prerequisite: PHYCS 122, 260; or permission of the department chairperson.

Not open to students who have credit in PHYCS 370.

572 Introductory Mathematical Physics 2. (3) Techniques in the formulation and solution of physical problems. Computer algebra systems (e.g. mathematica) may be introduced for the study of topics such as boundary value problems, transforms, special functions of
mathematical physics, and applications of tensor analysis in physics.

Prerequisite: PHYCS 122, 260; or permission of the department chairperson.

Not open to students who have credit in PHYCS 372.

580 Seminar in Modern Physics. (3) Seminar covering selected topics in contemporary physics. Extensive use of library facilities including current journals and periodicals in physics. Discussions of current research in physics and related fields.

Prerequisite: permission of the instructor.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Not open to students who have credit in PHYCS 380 under the same title.

585 Measures of Learning in Physics. (1) Integration of the fundamental principles underlying undergraduate physics education and related measures of learning. Emphasis is on developing familiarity with the contents of local and national exams in physics which are often reflected in graduate level qualifying exams. Emphasis will be focused on basic concepts in the context of problem solving.

Not open to students who have credit in PHYCS 485.

602 Observational Astronomy Workshop for Teachers. (3) Lecture/laboratory-oriented course that prepares middle and high school teachers to explain celestial events, plan observing sessions, and use star charts and planetaria-type computer software. Introduces image acquisition and software to extract meaningful data.

Not open to students who have credit in ASTRO 602.

604 Physical Foundations of Astronomy Workshop for Teachers. (3) Lecture/laboratory-oriented course that introduces middle and high school teachers to basic principles of physics presented in the context of modern astronomy and astrophysics. Fundamentals of mechanics, celestial mechanics, and their applications to space exploration as well as fundamental principles in optics and the structure of matter are discussed.

Not open to students who have credit in ASTRO 604.

606 Stellar Evolution and Black Holes Workshop for Teachers. (3) Lecture/laboratory-oriented course that introduces middle and high school teachers to the basic principles of stellar properties and stellar evolutions. Fundamental laws are reviewed in the context of pulsars, neutron stars, and black holes. Provides practical applications through hands-on experiences in how stellar properties are determined.

Prerequisite: ASTRO 604 or PHYCS 604 or permission of the instructor.

Not open to students who have credit in ASTRO 606.

641 Laser and Holography Workshop for Teachers. (2) The field of lasers and holography for junior high and high school science teachers. Basic geometrical optics, physical optics, and atomic theory phenomena in relation to laser operation and hologram making. Laboratory-oriented with considerable emphasis on laser safety and the use of lasers for demonstrating optical phenomena in the classroom.

Prerequisite: PHYCS 112 or 122 or permission of the department chairperson.

Not open to students who have credit in PHYCS 340, 354.

657 Introductory Integrated Circuit Analog Electronics Workshop for Teachers. (2) Laboratory-oriented course that acquaints teachers who do not have a strong electronics background with the uses of modern integrated circuitry. Emphasizes the construction and use of circuits that can be presented in the classroom. Introduces analog electronics topics.

Prerequisite: PHYCS 112 or 122 or permission of the department chairperson.

Not open to students who have credit in PHYCS 354, 356, 554, 556.

658 Introductory Integrated Circuit Digital Electronics Workshop for Teachers. (2) Laboratory-oriented course that acquaints teachers who do not have a strong electronics
background with the uses of modern integrated
circuitry. Emphasizes the construction and use
of circuits that can be presented in the
classroom. Introduces digital and micro-
processor electronics topics.

*Prerequisite:* PHYCS 112 or 122 or
permission of the department chairperson.

*Not open to* students who have credit in
PHYCS 354, 356, 554, 556.

659 Application of Nuclear Techniques
Workshop for Teachers. (2) Applications of
nuclear techniques in research, medicine, the
environment, energy production, and industry.
Designed for junior high and high school science
teachers. Laboratory oriented. Uses radiation
detection devices and radiation safety
procedures.

*Prerequisite:* PHYCS 112 or 122 or
permission of the department chairperson.

*Not open to* students who have credit in
PHYCS 360 or 560.

669 Work and Learning Experience in
Physics. (1-3) Paid work and learning
experiences in applied or theoretical physics in
an institutional, industrial, or university research
or development setting.

*Prerequisite:* approval of a proposed
program by the department chairperson.

A total of 3 hours of credit may be earned.

No more than 3 hours in combination with
PHYCS 369 may be used as approved electives
toward a departmental major.

671 Classical Mechanics. (3) Classical
Hamiltonian mechanics as applied to particles
and rigid body motion.

*Prerequisite:* PHYCS 330 or permission of
the department chairperson.

673 Electrodynamics. (3) Advanced
mathematical techniques for solving problems in
electrostatics and magnetostatics; fundamental
concepts of electrodynamics. Applicants to
electromagnetic fields in matter, waves, and
radiation.

*Prerequisite:* PHYCS 450, 550 or
equivalent.

675 Thermal Physics. (3) Thermal physics,
kinetic theory, and statistical mechanics.

*Prerequisite:* PHYCS 434 or 534 or
permission of the department chairperson.

677 Quantum Theory of Solids. (3) The
quantum mechanical theory of the structure,
cohesion, and static and dynamic processes in
solids, particularly crystalline solids but with
some reference to amorphous solids.

*Prerequisite:* PHYCS 565 or permission of
the department chairperson.

681 Resources and Methodology of Physics
Research. (3) Periodical resource material in
physics, methodology of literature research. This
course may be used to satisfy requirements of
the graduate research methodology plan for a
master’s degree.

*Prerequisite:* permission of the department
chairperson.

683 Seminar in Physics. (1-4) Critical
examination and discussion of recent
experimental and theoretical developments in
physics. Participation in and contribution of a
presentation at departmental physics colloquia
are expected.

A total of 4 hours of credit may be earned.

685 Special Studies in Physics. (1-8) Special
activities in physics involving one or more of the
following: experimental work, study of
advanced topics in physics, and attendance in
prescribed classes.

*Prerequisite:* permission of the department
chairperson.

A total of 8 hours of credit may be earned.

691 Advanced General Science. (3) Further
study of the principles of physics, chemistry,
meteorology, geology, and astronomy that were
introduced in the prerequisite: PHYCS 101.

693 Theories of Physics for Secondary
Physics Teachers. (3) Classical mechanics,
relativity, electricity, quantum mechanics, and
statistical mechanics used to enable students to
use new developments and recent scientific
advances. Designed primarily for teachers and
workers in the field who need to update their
general knowledge of physics. No regularly
scheduled laboratory.
Prerequisite: 8 hours of credit in college physics.

696 Modern Developments in Physics Teaching. (1-3) Recent developments in secondary physics curricula, multimedia teaching methods, national and local trends in physics teaching, laboratory work, textbooks, tests.

Prerequisite: permission of the department chairperson.
A total of 3 hours of credit may be earned. Not open to students who have credit in PHYCS 396.

790 Internship in Science Education. (3) Supervised experience in instruction of physics or science education courses.

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**PHYSIOLOGY AND HEALTH SCIENCE**

[www.bsu.edu/physiology](http://www.bsu.edu/physiology)

Cooper Science Complex 325, 765-285-5961

The Department of Physiology and Health Science offers graduate programs leading to either the master of arts or the master of science degree in health science or in physiology. Both physiology and health science may be used as academic cognate areas for students pursuing doctoral or specialist in education programs in related disciplines.

Although each graduate program has specific requirements, there is flexibility to meet individual student’s interests and needs. For example, a student who wants to earn a master of science degree in either physiology or health science will be required to complete a thesis. Graduate students who wish to professionalize their Indiana teaching licenses in health and safety will complete appropriate course work in the master of arts or master of science degree program in health science.

**PROGRAMS**

Master of science (MS) in health science; master of arts (MA) and master of science (MS) in physiology.

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

**MASTER'S PROGRAM IN HEALTH SCIENCE**

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School and must have a bachelor’s degree from an accredited college or university with at least an academic minor in health education, health and safety education, health science, or an equivalent subject. A student applying for a graduate teaching assistantship must have a grade-point average (GPA) of at least 3.0 on a scale of 4.0.

**MASTER OF SCIENCE IN HEALTH SCIENCE**

Students are expected to demonstrate a higher level of research skills in this program by completing a thesis (THES 698).

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Complete one of the following tracks:

**Community health education, 11 hours**
HSC 585 Co Hl Mthds 4
669 Pd HSc Pract (3-6)
or
675 Internship (3-6) 3
686 Prg Pln Eval 4

Electives 2

School health education, 12 hours

HSC 563 CSHP: Org Is 3
595 Mth Mtrl H E 3

6 hours from
HSC 550 El S Hlth Pg (3)
562 Hl Pro Wkste (3)
564 H Ed Clinic (3)
565 Alcohol Prob (3)
567 Drug Depn Ab (3)
568 Con Hlth Iss (3)
569 Health Aging (3)
571 Death Dying (3)
572 Women Health (3)
581 Stress Mang (3)
582 Environ Hlth (3)
589 Pub Hlth Ent (3)

Category II or III education courses (3) 6

Electives 4

———
30 hrs

MASTER’S PROGRAMS IN PHYSIOLOGY

These programs are designed for students seeking in-depth coverage of physiological principles pertaining to the human organism, endocrinology, renal function, cardiovascular dynamics, and pathophysiology.

Admission requirements

Applicants must meet the admission requirements of the Graduate School and must also have a bachelor’s degree from an accredited college or university with an academic major or minor in biology, the life sciences, or equivalent science fields. For students applying for graduate teaching assistantships, a GPA of at least 3.0 on a scale of 4.0 is required.

MASTER OF ARTS IN PHYSIOLOGY

Degree requirements

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ANAT or PHYSL electives (excluding MED PHYSL 640) (at least 3 credit hours must be in physiology) 9

General electives 3

———
30-31 hrs

MASTER OF SCIENCE IN PHYSIOLOGY

Degree requirements

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3 hours from

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30-31 hrs
3-4 hours from
ANAT 525 Embryo/Histo (4)
PHYSL 590 Ad Tpe Physl (1-3) 3-4

PHYSL or ANAT electives
(excluding MED PHYSL 640)
(at least 3 credit hours must be in
physiology) 3

General electives 3

———
30-31 hrs

CERTIFICATE PROGRAM IN PUBLIC
HEALTH EDUCATION

PREFIX NO SHORT TITLE CR HRS
HSC 585 Co Hl Mthds 4
686 Prg Pln Eval 4
562 Hl Pro Wkste 3

Electives course(s): any health-
related graduate course(s) approved
by the department chairperson 3

———
14 hrs

COGNATE AREAS FOR DOCTORAL
DEGREE PROGRAMS

Health Science Cognate

This 15-hour or 24-hour concentration of
courses in health science and related academic
disciplines is offered to qualified doctoral
students who want a high level of competency in
advanced content and program planning,
implementation, and evaluation pertaining to
health promotion and disease prevention.

Physiology Cognate

This 15-hour or 24-hour concentration of course
work in physiology, anatomy, and related
science disciplines is offered to qualified
doctoral students who want advanced courses in
body function and structure.

ANATOMY (ANAT)

505 Human Neuroanatomy. (3) A strong
background in the basic structural and functional
relations of the central nervous system.
Emphasizes the location of nerve-cell centers
and the fiber tracts entering and leaving these
centers. Two two-hour laboratory periods
weekly.

Prerequisite: ANAT 201 or ZOOL 330.

525 Human Embryology and Histology. (4)
Examines human development from germ cell
formation to organ formation including
microscopic structure of tissue and abnormal
development.

Prerequisite: BIO 111, 112 or ANAT 201 or
permission of the department chair-person.

Not open to students who have credit in
ANAT 425.

601 Human Gross Anatomy. (8) A strong
background in basic morphologic and functional
relations. Emphasizes regional anatomy. Four
two-and-one-half hour laboratory periods
weekly.

Prerequisite: admission to the medical
education program.

606 Medical Neuroanatomy. (4) Normal
structural and functional organization of the
human central nervous system as a background
for the interpretation of its dysfunction. Assumes
prior knowledge of human peripheral nervous
system and effector mechanisms. Two-and-one-
half hour lecture plus four hours of laboratory
weekly.

Prerequisite: ANAT 601.

631 Medical Histology-Embryology. (5)
Normal and abnormal developmental processes
related to the differentiation of tissues and
organs; microscopic study of organs and tissues
as background for physiological and
pathological consideration.

Prerequisite: admission to the medical
education program.

690 Special Studies in Anatomy. (1-3)
Problems of special interest in anatomy or in
anatomy teaching. Individual work under the
direction of a staff member may involve one or
more of the following: experimental work, attendance in undergraduate classes, wide reading, and development of special techniques or skills in scientific investigation.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

HEALTH SCIENCE (HSC)

550 Elementary School Health Programs. (3) School’s role in promoting health and preventing disease among preschool and elementary school children. Focus on the school health program (instruction, services, and environment), community resources, and health problems common to school children. No regularly scheduled laboratory.

Prerequisite: HSC 160.

Not open to students who have credit in HSC 350.

562 Health Promotion in the Worksite. (3) Explores the major components of planning, implementing, and evaluation of health promotion programs at the worksite.

Not open to students who have credit in HSC 462.

563 Coordinated School Health Programs: Organization and Issues. (3) Addresses the processes and issues associated with the planning, implementing, evaluating, and organizing of a coordinated school health program in accordance with national and state guidelines.

Prerequisite: HSC 261 or 467 or 471 or permission of the department chairperson.

Not open to students who have credit in HSC 363.

564 Health Education in the Clinical Setting. (3) Theories of client education and application of the educational process to individuals and groups in a variety of health-care settings. Emphasizes the multidisciplinary team concept in planning, implementing, and evaluating client education. Application of knowledge of growth and development in meeting learning needs of clients from a variety of ages and intellectual levels.

Not open to students who have credit in HSC 464.

565 Alcohol Problems. (3) Alcohol as a mood modifier and its use, nonuse, and abuse in drinking societies. Critical and controversial issues relevant to alcohol ingestion will be explored for medical, economic, legal, educational, historical, physiological, and public health implications.

Not open to students who have credit in HSC 465.

567 Drug Dependence and Abuse. (3) The medical, psychological, sociological, and legal dimensions of drug use in the United States. Examines the incidence and prevalence of drug abuse along with the roles played by the school and community in dealing with this health problem.

Not open to students who have credit in HSC 467.

568 Consumer Health Issues. (3) Health services and consumer protection organizations. Analysis of fraudulent health practices and nostrums, available health care systems, and health products.

Not open to students who have credit in HSC 468.

569 Health and Aging. (3) Dynamics of later life and the aging process with specific emphasis on health. The physiological and behavioral dimensions of the aging process.

Not open to students who have credit in HSC 469.

571 Death and Dying. (3) The relationship between death and health with emphasis on physiological, psychological, legal, and medical aspects of death in contemporary America. Roles of individual, family, school, community, and various professionals. Problems in meaning of death, care of the dying, death education, and attitudes toward death.

Prerequisite: HSC 160 or permission of the department chairperson.

572 Women and Health. (3) General overview of issues related to women and health: health
needs of working women, special nutritional concerns, the gynecological exam, reproductive anatomy and physiology, fertility and infertility, breast problems, wife abuse, and rape.

Not open to students who have credit in HSC 472.

581 Stress Management. (3) Aids in understanding the physiological, psychological, and sociological aspects of stress. Students will increase their awareness of the effects of stress, identify personal stress triggers, and develop strategies to minimizing stress throughout their daily lives.

Not open to students who have credit in HSC 481.


585 Community Health Methods. (4) Provides the skills necessary to become effective community health educators including policy development, advocacy, coalition building, grant writing, cultural competency, fund raising, and community health assessment.

Not open to students who have credit in HSC 385.

589 Public Health Entomology. (3) A survey of diseases caused or transmitted by insects and other arthropods. Emphasizes the recognition of medically important arthropods and their biology and control. A weekly three-hour laboratory provides an opportunity to collect and study live and preserved arthropod specimens.

Not open to students who have credit in HSC 389.

595 Methods, Materials, and Curriculum for Teaching Health Education. (3) Application of the roles of the health teacher in a school setting. Functions considered include needs assessment, program planning, direct instruction and evaluation, and curriculum development.

Prerequisite: EDSEC 150, 380; identification to pursue a teaching curriculum.

Not open to students who have credit in HSC 395.

598 Workshop in Health Science. (1-6) Critical contemporary issues in health science. May include consultants, guest lecturers, field trips, and group activities.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

669 Paid Health Science Practicum. (3-6) A paid work and learning experience in an approved health agency, facility, educational institution, professional organization, or private business for a time commensurate with the hours of credit to be earned. Assignments depend upon students’ interests and the resources of participating organizations.

Prerequisite: permission of the department coordinator of practicums and internships.

A total of 6 hours of credit may be earned.

670 Health Science Research Techniques. (3) An introduction to the study and practical application of research design as it applies to the health sciences. Emphasizes the necessary skills and competencies required to develop an acceptable research proposal.

671 Research Seminar. (2) Review, analysis, and discussion of the literature related to selected topics of current interest in health science. Includes public presentation of research proposal.

Prerequisite: HSC 670.

Open only to students enrolled in health science master’s degree programs.

675 Internship in Health Science. (3-6) Assignment to an approved health agency or educational institution for a period of time commensurate with the hours of credit to be earned. The student will make periodic and final reports to an academic advisor and to the administrator of the participating agency.

Prerequisite: permission of the department coordinator of practicums and internships.

A total of 6 hours of credit may be earned.
686 Health Promotion Program Planning and Evaluation. (4) Advanced study of program development, implementation, and evaluation. Includes an in-depth examination of the theories, models, and techniques/methods associated with these processes.

687 Statistical Theory and Methods in Health Science. (3) Designed for the application of statistics in health science. Focuses on statistical reasoning and techniques required for the analysis and interpretation of data in health science research.

695 Seminar in Health Science. (3-9) Selected literature on current scientific research. Extensive reading in scientific journals. Seminar members report at stated intervals on assigned problems in health science or health science teaching.

A total of 9 hours of credit may be earned.

697 Special Studies in Health Science. (1-3) Problems of special interest in health science or in health science teaching. Individual work under the direction of a staff member may involve one or more of the following: experimental work, attendance in undergraduate classes, wide reading, and development of special techniques or skills in scientific investigation.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

PHYSIOLOGY (PHYSL)

511 Endocrinology. (3) Endocrine functions in humans and mammals with special emphasis on mechanisms. Normal hormone regulation and pathophysiological principles. Laboratory experience with small mammal surgery and endocrine testing. One three-hour laboratory period weekly.

Prerequisite: ANAT 201; one year of general chemistry.

513 Renal Physiology. (3) Detailed study of the urinary system and excretory functions. Emphasizes human physiology but includes comparative vertebrate systems. Laboratory study includes gross, microscopic anatomy, and small mammal surgery. One three-hour laboratory a week.

Prerequisite: one course each in chemistry, anatomy, and physiology or permission of the instructor.

514 Cardiovascular Physiology. (3) A study of the dynamics of the human cardiovascular system, stressing applications of basic physical principles and the operation of physiological regulatory systems. Includes seminar-style discussion of recent literature.

Prerequisite: one course in physiology.

Not open to students who have credit in PHYSL 414.

515 Physiology of Aging. (3) Study of how physiological systems change with age and the mechanisms that are thought to cause these changes. Disorders and diseases of aging will be covered.

Prerequisite: one course each in chemistry and physiology or permission of the instructor.

516 Human Toxicology. (3) Chemical, physical, zoological, and botanical toxicoses in human health. The implications and methodology of dealing with hazardous substances and poisons.

Prerequisite: CHEM 101 or 111, and 112; one year of biology or physiology or combination of both; or permission of the instructor.

Not open to students who have credit in PHYSL 416.

520 Neuroscience. (3) Introductory study of the organization and function of the nervous system. Emphasizes integration of the structure and function of the nervous system.

Prerequisite: one year of chemistry and one year of biology or physiology.

535 Pathophysiology. (3) The physiological pathology of selected disease processes and dysfunctions. The pathogenesis of certain
derangements with broad applicability. Underlying chemical, biological, and physical mechanisms. Laboratory experience will include demonstrations, visitations, and specimen study. One three-hour laboratory period weekly.

Prerequisite: one course each in anatomy, physiology, and chemistry.

Not open to students who have credit in PHYSL 435.

585 Research Techniques in Physiology. (3)
Introduction to experimental design, laboratory techniques, and data analysis and interpretation in anatomy and physiology. Laboratory will include methods employing animal preparations, modern cellular/molecular techniques, and general histological procedures. Introduction to computer data acquisition and analysis.

Prerequisite: one course in physiology or permission of the instructor; CHEM 563 recommended.

590 Advanced Topics in Physiology. (1-3)
Involves discussion of current topics in research as well as exploring current laboratory techniques and advances in molecular and cellular aspects of physiology.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

640 Medical Physiology. (8)
Summary of human physiology for medical students. Cellular and organ-system physiology; physiological regulation. Laboratory exercises will demonstrate general principles of physiology and introduce basic techniques and instrumentation.

Prerequisite: admission to the medical education program.

645 Emergency Medicine. (2) Designed to develop an awareness of proper diagnosis and treatment during emergency medical care by professional medical personnel. Fractures; environmental emergencies; injuries to the eye, chest, and abdomen; shock; and wound care.

Prerequisite: admission to the medical education program.

690 Special Studies in Physiology. (1-3)
Problems of special interest in physiology or in physiology teaching. Individual work under the direction of a staff member may involve one or more of the following: experimental work, attendance in undergraduate classes, wide reading, and development of special techniques or skills in scientific investigation.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

SCIENCE (SCI)

501 Electron and Confocal Microscopy. (3)
Introduction to the techniques and theory of electron and confocal microscopy. Emphasizes basic procedures employed in specimen preparation, production of micrographs and operation of the transmission, scanning, and confocal microscopes.

POLITICAL SCIENCE

www.bsu.edu/poli-sci
North Quadrangle 240, 765-285-8780

PROGRAMS

Master of arts (MA) in political science, master of public administration (MPA), and master of public administration (MPA) with a criminal justice and criminology concentration

Admission requirements

Applicants for the master of arts (MA) and master of public administration (MPA) programs must meet the admission requirements of the
Graduate School, submit Graduate Record Examination (GRE) scores, and be accepted by the Department of Political Science. Students seeking admission to the MPA program with a concentration in criminal justice and criminology must also be accepted by the Department of Criminal Justice and Criminology. Applicants whose undergraduate majors are not political science or closely related subjects may be required to complete undergraduate courses to acquire background knowledge. Credit for these courses does not apply to degree requirements.

MASTER OF ARTS IN POLITICAL SCIENCE

This degree gives students opportunities to broaden and strengthen their understanding of political science. The master of arts in political science prepares students for a variety of goals. Some students may wish to pursue doctoral work at another university after earning the MA degree at Ball State University. Some may wish to enter law school; others may seek governmental employment; still others will go into business or professional organizations that require a knowledge of governmental processes. The MA degree program is flexible enough to prepare students for such a range of possibilities.

Degree requirements

Requires a minimum of 30 hours, at least 15 of which must be earned in political science courses at the 600 level. The 600 level courses must include POLS 625 Research Methods in Political Science and at least three additional 600-level courses in at least two subfields of the discipline chosen by the student in conjunction with her/his advisor. Subfields include American politics, comparative politics/international relations, and public policy/administration. The university research and writing requirement can be met in one of four ways: a thesis for 6 hours of credit, a research paper for 3 hours of credit, a creative project for either 3 or 6 hours of credit, or satisfactory completion of POLS 626 Research Seminar. Before graduation, students must pass a departmental comprehensive exam in two subfields of political science.

MASTER OF PUBLIC ADMINISTRATION (MPA)

This degree provides graduate professional education to students who wish to prepare for administrative or research careers in public management at the federal, state, or local government level with nonprofit organizations or private sector corporations extensively involved with government.

The flexibility of the program allows students to tailor an interdisciplinary curriculum to their needs, objectives, and goals. A full-time student can complete the MPA program (including internship) in four semesters or two academic years. An in-service student with a strong background may be able to complete the program with a minimum of one calendar year of course work. The requirements of the program ensure that each student will have a theoretical understanding and practical awareness of public policy and of the principles of management and administration in the public sector. The program blends the study of politics and administration with the techniques of modern management.

To accommodate practitioners and others who have daytime commitments, evening and Saturday morning classes are offered as well as weekday classes. Many opportunities exist for student participation in workshops and experiential learning settings where students and public administrators can interact.

Degree requirements

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15 hours from

Electives in public administration...
related courses 9-12

Research requirements
POLS 626 Rsrch Semnar (3-6)
or
RES 697 Research Ppr (1-3)
or
THES 698 Thesis (1-6) 3-6

Minor area of study and/or Electives in related complementary area 6-9

——— 36-42 hrs

Before graduation, students must pass a departmental comprehensive exam in public administration and criminal justice.

In addition, for both the MPA and the MPA with CJC concentrations, each student is required to have a basic understanding of and ability to deal with introductory accounting. This may be fulfilled by a previous undergraduate accounting course or completion of ACC 501 or the equivalent. The student's plan of study, including electives, will be selected in consultation with the program advisor.

Each student’s background will be evaluated individually, and recommendations on program content will be made according to the student’s educational and job experiences and career plans. Students without appropriate professional experience will be required to complete for credit (6 hours) a full-time internship.

Interdisciplinary Emphasis

Courses in a number of other departments may be taken as electives to broaden and strengthen the student’s training. Selection of such courses must be made in consultation with the major advisor. Students may complete part of their MPA elective courses in such departments as accounting, criminal justice and criminology, economics, journalism, educational leadership, management science, marketing, natural resources and environmental management, physiology and health science, and sociology.

POLITICAL SCIENCE (POLS)

503 Issues in Political Science. (3) Survey and investigation of a particular topic, problem, or issue in political science with emphasis on subfields, specialties, and materials not covered in other courses. Exact content will be announced before each offering.

Not open to students who have credit in POLS 403.

505 Reading and Special Study. (3-6) For students whose special aptitudes and interests qualify them to study semi-independently. Topics to be chosen and investigated in consultation with the department chairperson.
and a professor possessing special competence in the topic involved.

Prerequisite: basic courses in the topic selected for special study.

A total of 6 hours of credit may be earned.

507 Workshop in Political Science. (2-6)
Intensive study of selected problems in political science.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

511 American Political Thought. (3) American political thought from the colonial period to the present. Puritanism, nature of rights, constitutionalism and federalism, nature of the Union, democracy, liberalism, conservatism, individualism and collectivism, welfare state, isolationism and internationalism, and national security and freedom.

Not open to students who have credit in POLS 411.

512 Early Western Political Thought. (3) Analysis of political thought of the early Mediterranean and medieval worlds that became the foundation of modern political theories and systems of the West. Emphasizes writings by Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, and Machiavelli.

Not open to students who have credit in POLS 312.

513 Modern Western Political Thought. (3) Analysis of selected writings of leading political theorists from the Age of Reformation to the present.

Not open to students who have credit in POLS 313.

527 Voter Polling Techniques. (3) Methods by which information is acquired on the voting behavior and attitudes of the electorate. Emphasizes producing a working knowledge of polling techniques. Sampling, interviewing, and questionnaire construction.

Not open to students who have credit in POLS 373.

531 Legislation. (3) Legislative bodies and law-making: organization of legislative bodies, operation of the committee system, relations with interest groups, executive branches, bill drafting, legislative aids, controls over legislation, and movement for reform.

Prerequisite: POLS 130 or the equivalent.

Not open to students who have credit in POLS 431.

534 State Legislatures. (3) Legislative systems in American state government. External influences (constituencies, political parties, interest groups), internal influences (organizational structure, staff, norms, decision making), issues confronting state legislatures, and reform proposals.

Prerequisite: POLS 130, 237.

535 Intergovernmental Relations. (3) Analysis of relationships among national, state, and local governments. Consideration of constitutional and legal bases, and the nature of such phenomena as grants-in-aid, tax immunity, education, and interstate compacts.

Prerequisite: POLS 130, 237.

Not open to students who have credit in POLS 435.

537 Government and Politics in Indiana. (3) Survey of Indiana’s political culture and tradition as compared to other states. Critical examination of Indiana’s contemporary political processes and governmental policies.

Not open to students who have credit in POLS 437.

538 Metropolitan Problems. (3) Cities and metropolitan communities; the nature, characteristics, functions, governmental structure, intergovernmental relations, social makeup and problems, economic base, decision-making structure, and other related topics; the present and future roles of planning and citizen participation in the entire community.

Prerequisite: POLS 238.

Not open to students who have credit in POLS 438.

540 Introduction to Law and Enforcement. (3) The development of law and contemporary law enforcement in the United States with special attention to various components of law
enforcement systems, their interrelationships, purposes, and needs.

*Prerequisite:* POLS 130, 237.

*Not open to* students who have credit in POLS 340.

**543 American Constitutional Law.** (3) The Constitution of the United States, its development and interpretations through principal statutes and judicial decisions. Congressional policies embodied in socioeconomic legislation and doctrines developed by the Supreme Court.

*Prerequisite:* POLS 130.

*Not open to* students who have credit in POLS 443.

**544 Constitutional Liberties.** (3) Relations between the individual and government as revealed through cases in constitutional law. Cases involving the Bill of Rights and the Fourteenth Amendment.

*Prerequisite:* POLS 130.

*Not open to* students who have credit in POLS 444.

**545 National Defense Policy.** (3) An international survey of military capacity and function as background for analysis of the national defense policy of the United States. Emphasizes American strategic interests and problems of weapons, technology, nuclear control, and disarmament.

*Prerequisite:* POLS 130.

*Not open to* students who have credit in POLS 345.

**547 Environmental Law and Policy.** (3) The legal system’s response to conflicting demands upon environmental resources. Composition of environmental problems, control issues, policy formulation, and legal remedies.

*Not open to* students who have credit in POLS 347.

**549 Land-Use Regulation.** (3) The legislative and constitutional components of the regulation of land use at various levels of government, including zoning, subdivision regulations, urban renewal, codes, enforcement, eminent domain, conservation, reclamation, interstate compacts, and metropolitan and regional agencies.

**554 Politics and Administration of Local Government Budgets.** (3) Local government budgeting with emphasis on political and administrative issues in budget preparation and accountability. Revenue development from tax and nontax sources, capital expenditure programming, financing pensions, contracting for services, cost/benefit analysis, and federal and state grant mechanisms.

*Not open to* students who have credit in POLS 454.

**555 Administrative Law.** (3) Legal and political study of independent regulatory agencies; their powers, functions, and roles as determined by an analysis of relevant cases in which basic principles are identified and synthesized with other elements of public law.

*Not open to* students who have credit in POLS 455.

**561 Community Planning and Its Administration.** (3) Planning and development of improved land use and service activities of cities and predominantly urban communities. Consideration of scope, legal basis, implementation, and problems of planning for streets, utilities, education, recreation, transportation, zoning, and related community services.

*Prerequisite:* POLS 237, 350.

*Not open to* students who have credit in POLS 461.


*Not open to* students who have credit in POLS 465.

**566 Administrative Problems in State Government.** (3) Administrative procedures and
organizational behavior at the state level. Emphasizes the provision of government services and functions in budgeting and taxation, education, environmental protection, public health, and public works.

Prerequisite recommended: POLS 237 or 350.

Not open to students who have credit in POLS 466.

570 Public Opinion and Political Behavior. (3) The nature of public opinion, instruments, techniques, and institutions involved in the formation of public opinion; the political uses and implications at home and abroad of public opinion and propaganda.

Not open to students who have credit in POLS 370.

571 Public Interest Groups and Government. (3) The internal government and external political strategy of private associations—trade associations, unions, and professional, church, and patriotic organizations. The implications of pressure group activities for constitutionalism, majoritarianism, and constituency, and the effects of pressure groups upon political parties and the political process.

Not open to students who have credit in POLS 371.

572 Political Campaigns. (3) Political campaigns considered as the linkage between citizens and the government in a representative democracy, from theoretical and practical perspectives. The course will answer questions on the why (theory), what (strategies), and how (techniques) of political campaigns.

Not open to students who have credit in POLS 372.

573 American Political Parties. (3) Organization and functions of political parties in the United States and their role in a representative democracy.

Not open to students who have credit in POLS 473.

574 Women and Politics. (3) National survey of women and the political process, with an emphasis on women and contemporary public policy issues.

Not open to students who have credit in POLS 474.

575 Minority Group Politics. (3) The political effects of ethnic groups on American politics. Emphasizes both legal and extralegal means by which ethnic groups become involved in and influence public policy.

Prerequisite recommended: POLS 130.

Not open to students who have credit in POLS 475.

582 Governments and Politics of Western Europe. (3) Europe as a political and cultural area: the government and political structures of the three major powers in Western Europe—Great Britain, France, and Germany; the current state of the Western European integration movement.

Prerequisite: POLS 130.

Not open to students who have credit in POLS 382.

584 British Government and Politics. (3) The political system of the United Kingdom, including a discussion of the Commonwealth and Britain’s place in an expanding European community. Emphasizes Anglo-American relations and British contributions to American political arrangements.

Not open to students who have credit in POLS 384.

585 Politics of the European Union. (3) Study of the development of the European Union as an evolving political entity—its politics, institutions, and policies—and the prospects for European unification.

Not open to students who have credit in POLS 385.

586 Politics of Russia and the Successor States. (3) Evaluates political, economic, and social change and performance in Russia and the other successor states of the former Soviet Union. Also assesses the historical and cultural context of modern Russia from the Bolshevik Revolution through the post-communist era.

Not open to students who have credit in POLS 386.

Not open to students who have credit in POLS 488.

590 International Law. (3) A survey of the Law of Nations by analyzing prominent decisions of international tribunals, examining representative legal principles, briefing appropriate cases, and conducting mock court trials.

Not open to students who have credit in POLS 490.

592 The United Nations and International Organizations. (3) International organizations; the structure, functions, and current issues facing the United Nations. Students participate in a mock security council at Ball State and may have an opportunity to participate in the National Model United Nations Conference.

Not open to students who have credit in POLS 392.

593 World Politics. (3) Theories of contemporary interactions among states, especially the major powers, with particular attention to conflict resolution.

Not open to students who have credit in POLS 493.

594 International Relations in Asia. (3) Contemporary international relations in Asia with emphasis on the roles of China, Japan, the United States of America, and the former Soviet Union.

Not open to students who have credit in POLS 394.

595 Communist China’s Foreign Policy. (3) Communist China’s role in international politics, with special emphasis on the effect of Communist China’s foreign policy and the response to it.

610 Issues in International Relations. (3) Examines important theoretical questions confronting students of international relations as a basis for examining current issues that are changing the nature of global and regional relationships.

611 International Political Economy. (3) Explores the theoretical frameworks through which scholars understand the international political economy in order to understand the structures, institutions, and processes that are changing the nature of global and regional relationships.

Open only to graduate students.

615 Western Political Theory. (3) In-depth examination of classic works in the Western political tradition including Plato, Aristotle, Aquinas, Machiavelli, Locke, Rousseau, and Marx. Special emphasis on the contributions of each thinker to the evolution of western concepts of justice, liberty, power, and the good society.

625 Research Methods in Political Science. (3) A critical examination of methodological problems and practices in the formulation, execution, evaluation, and reporting of political science research, including a comparison of data-gathering techniques, their respective limitations, and appropriate application.

626 Research Seminar. (3-6) Advanced techniques and applications of political and governmental research. According to need, the seminar will focus on one of the following: traditional political research, behavioral political research, and applied research in policy and administration.

Prerequisite: POLS 625 or permission of the department chairperson.

A total of 6 hours of credit may be earned.

632 The American Presidency. (3) This course will explore the theoretical, historical, and contemporary forces that combine to shape the modern presidency.

Open only to graduate students.

633 The American Judicial System. (3) Examines the workings of the American judicial system, composed of courts, judge, jurors, lawyers, spectators, and rules. Topics covered include legal theory, roles of lawyers and judges,
judge selection, trial and appellate courts, judicial policy, and the future of law.

636 Seminar in Comparative Politics. (3) Study of the theories, methods, and approaches in comparative politics. Covers themes that can be applied to analyze different countries and regions of the world.

Prerequisite: POLS 210, 280, 625 or equivalents are recommended.

642 Problems in Public Policy. (3) Current political, economic, and social problems in the United States. Examines different approaches to the study of public policy and problems inherent in carrying out the basic stages of the policy process including issue definition, choices among alternatives, agenda setting, decision making, implementation, and evaluation.

Prerequisite recommended: POLS 130.

648 Policy Analysis. (3) Equips students with the tools of the policy analyst through systematic analysis of programs and projects. Emphasizes problem definition, goal determination, systematic evaluation of alternatives, socioeconomic and political indicators, performance measures, and impact evaluation.

Prerequisite recommended: POLS 342 or 642.

650 Public Administration. (3) Organization, personnel, and functions of the various agencies of administration—national, state, and local.

Prerequisite: POLS 130.

651 Administrative Organization and Management. (3) Governmental administrative organizations as companies composed of people taking action under conditions of conflict and cooperation: the nature and role of administrative organization and management, growth and effect on the government of the scientific management movement, formal and informal organization of administrative authority, operational problems and processes, and criteria for evaluation of administration.

Prerequisite recommended: POLS 350.

652 Personnel Administration in Government. (3) The organization and operation of personnel administration in the public service. Scope and character of public employment in the United States, development of federal, state, and local civil service systems, organization of public personnel agencies, and methods and techniques of personnel administration in government.

Prerequisite recommended: POLS 350.

653 Public Financial Administration. (3) Survey of the principles and practices of administration of national, state, and local finances: administrative financial organization, budgetary procedure, accounting of revenues, expenditures, pre-audit and post-audit, assessment and collection of taxes, purchasing, letting of contracts, management of publicly owned undertakings, public debt, and grants-in-aid.

Prerequisite recommended: POLS 350.

669 Paid Internship in American Government. (3-6) Students are paid for part-time or full-time work for one semester in the office of a public official in national, state, or local government, or of a candidate for public office, or of a political party. Assignments depend upon the interests of students and the convenience of sponsors.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

679 Practical Experience in Government. (3-6) Unpaid full or part-time assignment in a public office with a candidate for public office, a political party, or private organization. Assignments depend upon the student's interest and the convenience of the sponsor.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

689 Comparative Politics and Government. (3) Analysis of politics and government in selected major countries of the world. Considers political processes, governmental institutions, and/or public policies from a cross-national perspective.

Open only to graduate students.
694 Terrorism and Homeland Security. (3)
Introduction to political terrorism ranging from low-level acts of threats and violence to large-scale acts of violence using weapons of mass destruction. The nature of terrorism, policies and programs to reduce the risk and to manage terrorist events and the policies and programs to manage the consequences of terrorist violence will be discussed.

PSYCHOLOGICAL SCIENCE

www.bsu.edu/psyc
North Quadrangle 104, 765-285-1690

PROGRAMS

Master of arts (MA) degrees in clinical psychology and in cognitive and social processes

Admission requirements
Applicants must meet the admission requirements of the Graduate School; have an undergraduate grade-point average of at least 3.0 on a 4.0 scale; have a Graduate Record Examination (GRE) combined verbal and quantitative score of at least 1000; submit three letters of reference, transcripts of all previous graduate and undergraduate course work, and departmental applications; and have taken undergraduate courses in psychology that include experimental design and methodology and statistics.

MASTER OF ARTS IN CLINICAL PSYCHOLOGY

A two-year program designed to provide training consistent with that expected of a scientist-practitioner clinical psychologist.

Degree requirements

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or
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668 Physiological 3
680 Res Meth Psy 3
691 Systems 3
696 Sem Divrsity 3

Additional requirements
Approved electives by the graduate program director and/or RES 697 or THES 698 9

48 hrs

PSYSC 623 is required if no undergraduate personality course was taken. The university research and writing requirement is met by PSYSC 680 and EDPSY 642.

All graduate courses in psychological science are required to include diversity as a course objective.

MASTER OF ARTS IN COGNITIVE AND SOCIAL PROCESSES

A two-year program designed to provide extensive training in social and cognitive psychology, research methods and statistics.

Degree requirements

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Electives (general) 6-12

THES 698 or RES 697 or elective approved by graduate program director 3-6

——— 42-45 hrs

The university research and writing requirement can be met by PSYSC 680 and EDPSY 642. All graduate courses in psychological science address diversity as one of the course objectives. PSYSC 691, SOPSY 610 may be waived if equivalent undergraduate course(s) taken.

**Internship Placement**

The department maintains a training agreement with local community mental health agencies, hospitals, and the university Counseling and Psychological Services Center. Clinical students complete an internship (minimum 400 hours) at one of these facilities during their second year.

**Teaching and Research Assistantships**

Approximately 65 percent of students are awarded assistantships and partial fee remissions. In return, students help faculty instructors or assist in faculty research. Exceptional second-year students may be offered the opportunity to teach introductory-level classes.

**Interdepartmental Cooperative Arrangements**

The department maintains a cooperative teaching and research arrangement with the counseling psychology and educational psychology departments for maximum flexibility in training. In addition, the department is involved in the university’s Fisher Institute for Wellness and Gerontology.

**PSYCHOLOGICAL SCIENCE (PSYSC)**

524 Psychology of Women. (3) Psychological approaches to the study of women with special emphasis on achievement motivation and dependency, attitudes toward women, development of sex-role identity, biological and social influences on women’s behavior, self-concepts and psychological conflict in women, and a critical appraisal of research in sex differences.

*Not open to* students who have credit in PSYSC 324.

573 Industrial Psychology. (3) Application of psychological principles to personnel selection and training, worker motivation and satisfaction, leadership, engineering psychology, and personnel problems in industry.

*Not open to* students who have credit in PSYSC 373 or equivalent.

574 Organizational Development: A Psychological Perspective. (3) Examines organization change and development techniques from the perspective of psychological theory and research. Emphasizes individual and team level interventions.

*Prerequisite:* any one of PSYSC 373, 573; MGT 300, 500; or equivalents, or permission of the instructor.

*Not open to* students who have credit in PSYSC 474 or equivalent.

575 Advanced Industrial Psychology. (3) Principles of personnel testing as applied to the selection and placement process. Focuses on the development of predictors and criteria, selection of an appropriate validation model, and the psychological dynamics of interview processes.

*Prerequisite:* PSYSC 373 or 573, or permission of the department chairperson.

584 Experimental Psychology. (3) The study of behavior by the experimental method. Experimental studies will be conducted to evaluate research techniques and appropriate controls.
Prerequisite: PSYSC 241 or EDPSY 641.
Not open to students who have credit in PSYSC 284.

595 Special Topics in Psychology. (1-12)
Investigation of various topics related to psychology. Topics will vary at the discretion of the instructor.
Prerequisite: permission of the department chairperson.
A total of 12 hours of credit may be earned.

613 Developmental Psychology. (3)
Concepts, principles, theories, and research concerning the biological and environmental influences on behavioral and psychological development. Emphasizes issues and topics related to the normal human life span. Designed primarily for students without undergraduate work in human growth and development.
Prerequisite recommended: PSYSC 241 or the equivalent.

615 Learning and Motivation. (3)
Analysis of research and theories of basic conditioning, learning processes, and motivation. Biological bases of motivation will also be considered. The major concentration will be on animal learning and motivation, but parallels to human behavior will be drawn.
Prerequisite: PSYSC 284 or 584.

616 Perception and Cognition. (3)
Analysis of research and theories of perception, cognition, and language. Covers information processing, attention, verbal learning and memory, problem solving, concept formation, and psycholinguistics.
Prerequisite: PSYSC 284 or 584.

617 Memory Processes and Applications. (3)
Explores models of human memory processes, as well as biological, environmental, and social factors affecting memory.
Prerequisite: PSYSC 616.

618 Thinking. (3)
Examines psychological theories, models, research, and applications of problem solving, decision making, reasoning, and other kinds of intelligent human cognitive processing.

Prerequisite: PSYSC 616.

623 Theories of Personality. (3)
Review and comparison of theories of the structure, development, dynamics, and assessment of normal personality, with emphasis on empirical data presented by proponents of various theoretical positions.
Prerequisite recommended: PSYSC 241.

632 Abnormal Psychology. (3)
Introduction to adult psychopathology with emphasis on contemporary systems of classification of behavior disorders, expression of behavior disorders in the context of cultural factors, problems associated with diagnostic decision making, and current research concerning descriptive boundaries, etiology, course, and prognosis.
Prerequisite: PSYSC 284; permission of the department chairperson.
Prerequisite recommended: PSYSC 317.
Open only to students in the clinical MA program.

640 Introduction to Psychological Assessment. (3)
Theoretical and practical implications of psychodiagnostic tools including age, gender, ethnicity, language, disability, and culture factors related to the assessment and evaluation of individuals and groups. Emphasizes issues of reliability, validity, and ethics, plus the development of basic diagnostic skills.
Prerequisite: PSYSC 623, 632.
Open only to students in the clinical MA program.

644 Advanced Psychological Assessment. (3)
Continuation of PSYSC 640 with emphasis on the selection, administration, interpretation, and use of objective and projective personality assessment devices in conjunction with other techniques. Emphasizes development of advanced diagnostic skills and ethical considerations.
Prerequisite: PSYSC 623, 632, 640.

652 Introduction to Psychotherapy. (3)
Introduction to treatment of abnormal behavior using individual psychotherapy. Selected
theories and techniques are surveyed. Emphasizes development of basic therapeutic skills, therapist and client characteristics that influence helping processes, ethical considerations, and implications of sociocultural, demographic and lifestyle diversity.

**Prerequisite:** permission of the department chairperson.

**653 Advanced Topics in Psychotherapy.** (3)
Selected topics in psychotherapy and related interventions are examined, including crisis intervention, medications, prevention, and community intervention. Also covered are historical, legal, financial, and ethical considerations, procedures for determining accountability, and public policy issues related to mental health services.

**Prerequisite:** PSYSC 632, 652; permission of the instructor.

*Open only to* students in the clinical MA program.

**656 Physiological Psychology.** (3)
Introduction to the physiological basis of behavior, involving the nervous system, its structure, biochemistry, and function. Emphasis on basic neuroscience and research methods. Includes a survey of the role of neurophysiology and neuroanatomy in functions of consciousness and mental disorders.

**Prerequisite:** PSYSC 284, 584.

**668 Health Psychology.** (3)
A systematic introduction to the use of psychological procedures in the prevention, diagnosis, and treatment of such medical problems as cardiovascular disorders, headaches, obesity, asthma, and chronic pain.

**Prerequisite:** PSYSC 632.

**670 Research Methods in Psychology.** (3)
Overview of research methods in psychology, including experimental, quasi-experimental, correlational, single case, and program evaluation techniques.

**Prerequisite:** PSYSC 241, 284, or their equivalents; permission of the instructor.

**682 Orientation to Professional Clinical.** (1)
A 100-hour clinical practicum in a mental health setting. Designed to introduce students to issues involved with professional practice, including history, roles, organizational structures, ethics, standards, and credentialing.

**Prerequisite:** permission of the department chairperson.

*Open only to* clinical graduate students in psychological science.

**685 Clinical Internship.** (3-6)
Supervised applied clinical experience in one or more appropriate settings. Students must have earned 20 hours of graduate credit in psychological science, at least half of which should be from the clinical sequence.

**Prerequisite:** permission of the department chairperson.

A total of 6 hours of credit may be earned.

*Open only to* students in the clinical MA program.

**686 Applied Practicum.** (3-6)
Supervised experience in an applied setting.

**Prerequisite:** 21 hours of graduate credit in psychology; permission of the department chairperson.

A total of 6 hours of credit may be earned.

*Open only to* master’s candidates in cognitive and social processes.

**687 Advanced Clinical Internship.** (3)
Supervised advanced clinical experience in one or more appropriate settings. Emphasizes the development of advanced skills, the integration of professional knowledge, and skills appropriate to professional practice.

**Prerequisite:** PSYSC 685.

*Open only to* students in the clinical MA program.

**691 Systems of Psychology.** (3)
The major concepts of various schools of psychological thought and contemporary theoretical systems as they have evolved from their historical origins.

**695 Seminar in Psychology.** (1-3)
Investigation in the current literature of psychology. Topics will vary each semester, at the instructor’s discretion.

**Prerequisite:** 12 hours of graduate credit in psychology.

A total of 3 hours of credit may be earned.
696 Seminar on Diversity. (3) Introduces the application of diversity perspectives to psychological research and practice. Race, ethnicity, economic status, national origin, disability, gender, sexual identity, age, and religious beliefs will be considered. Emphasizes why all psychological subdisciplines need to understand diversity issues.

Prerequisite: permission of the instructor.

698 Psychological Investigations. (1-3) For students with special aptitude: an opportunity to pursue a line of psychological investigation individually under faculty supervision. Students will be expected to read the relevant literature and to participate in designing and conducting the investigation. Time spent in the investigation may vary from one semester to a full academic year, sometimes including the summer.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

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SOCIAL WORK

www.bsu.edu/socwk
Fine Arts Building 227, 765-285-1016

SOCIAL WORK (SOCWK)

570 Selected Aspects of Social Work Practice. (3 or 6) Exploration of social work practice with selected client populations and types of practice with emphasis on individualized study, reporting, and group discussion. Study will focus on social work practice and social service delivery within the identified field.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

Not open to students who have credit in SOCWK 370.

SOCWK 575 Social Welfare Policy with the Elderly (3).

The course is concerned with the major social welfare policies that affect the elderly. Focus will be on problems of the elderly and social welfare policies and social welfare policies and programs directed at the reduction of such problems. Prerequisite: SOC 431, 531.

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SOCIOLOGY

www.bsu.edu/sociology
North Quadrangle 205, 765-285-5977

PROGRAM

The master of arts (MA) in sociology is designed to prepare students for professional
employment or doctoral study in sociology at other universities

MASTER OF ARTS IN SOCIOLOGY

Admission requirements

Applicants must meet the admission requirements of the Graduate School take the Graduate Record Examination (GRE), and present evidence of preparation to do work in sociology.

Degree requirements

The master of arts in sociology requires 33 hours. Students must complete a 15-hour core of required courses. To complete the remaining 18 hours, students will choose one of the following options, depending on their needs and backgrounds: thesis, institutional research certificate, teaching certificate, or directed electives in methods and statistics. The research methodology course requirement is met by SOC 681.

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Certificate in college and university teaching option, 18 hours

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Electives 3

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Electives 12

33 hrs

Graduate Assistantships

A limited number of graduate assistantships are available each year to students who have maintained a minimum undergraduate grade-point average (GPA) of 2.75 on a scale of 4.0. There is a stipend, and part of the tuition is waived. Graduate assistants should plan for and expect assistantships to begin in the fall semester and end at the close of the spring semester.
Renewal of the assistantship for a second year is available.

SOCIOLOGY (SOC)

502 Sociological Theory. (3) Focuses on sociological theories of the nineteenth and early twentieth centuries. The investigation includes the intellectual and cultural backgrounds from which theories developed.

Not open to students who have credit in SOC 402.

520 Social Inequality. (3) Examines causes and consequences of social class, status, and mobility in the United States and other countries.

Not open to students who have credit in SOC 320.

521 Racial and Cultural Minorities in the United States. (3) Examines the causes of prejudice and discrimination toward minorities in the United States, minority group experiences, and proposals for reducing prejudice and discrimination.

Not open to students who have credit in SOC 421.

522 Social Trends in Contemporary Societies. (3) Analysis of social trends in contemporary societies.

Not open to students who have credit in SOC 422.

523 Industrial and Post-Industrial Society. (3) Examines the social effects of the Industrial Revolution and Post-Modernity, the continuing importance of technological change, social structures of industrial organizations, and expansion of the service and health sectors.

527 Sociology of World Religions. (3) Study of the relationship between society and religion.

Not open to students who have credit in SOC 427.

528 Globalization and Third-World Societies. (3) Examines developmental and globalization trends in third-world societies. The effects of industrialization, mass media, population growth, rapid urbanization, and pressures from other societies are also examined.

531 Social Gerontology. (3) Examines the effects of social and cultural factors of the aging process including an analysis of policies and programs designed to meet the needs of older adults.

Not open to students who have credit in SOC 431.

537 Global Inequality. (3) Examines social inequalities linked to race, ethnicity, gender, religion, and other conditions occurring worldwide.

541 Social Change. (3) Analyzes social movements and resistance to these movements.

Not open to students who have credit in SOC 441.


Not open to students who have credit in SOC 470.

572 Urban Dynamics and Problems. (3) Examines the historic functions and institutional dynamics of the city with special reference to contemporary urban problems, including issues of community diversity and solidarity.

Not open to students who have credit in SOC 472.

574 Seminar on Middletown Studies. (3) Focuses on two works by the Lynds, “Middletown” and “Middletown in Transition,” and more recent studies about Muncie, Indiana. Includes participation in a continuing sociological project.

580 Sociological Research Design. (3) Examines the basic principles of conducting and analyzing sociological research.

Not open to students who have credit in SOC 380.
583 Evaluation and Qualitative Research. (3) Examines the nature of evaluation and qualitative research methodology. Provides experience in proposal writing as well as evaluation design and implementation.

588 Internship 3: Field Experience. (1-3) Unpaid supervised field experience in a business, industrial, governmental, educational, or other setting. Supervision will be jointly provided by sociology faculty and employers. 
Prerequisite: permission of the sociology internship coordinator and the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

590 Independent Study in Sociology. (1-3) Topics to be chosen and investigated in consultation with an instructor possessing special competence in the subject involved. 
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

600 Sociological Inquiry. (3) Examines the nature of sociology, types of research data, and the formulation and reporting of sociological research. Focuses on the preparation of research proposals.

603 Readings in Sociological Theory. (3) Focuses on the reading and in-depth study of significant contemporary sociological works. 
Prerequisite: SOC 502 or equivalent.

644 Family and Gender. (3) Comparative perspectives on the historical transformations that have influenced family and gender relationships are considered. Cultural variations will be evaluated as they relate to social problems and policy initiatives.

664 Advanced Seminar in Social Gerontology. (3) Examines the sociological components of aging as an increasingly significant social phenomenon in contemporary American society. 
Prerequisite: SOC 531 or equivalent.

669 Internship 2: Paid Field Work. (3) Paid supervised field experience in a public agency or business setting. Training involves data analysis, evaluation research, and implementation of agency programs under the supervision of the employer and the department. 
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

681 Survey Research Methods. (3) Provides practical knowledge on how to develop and conduct surveys.

682 Social Statistics. (3) Calculation, application, and interpretation of statistics used in social and behavioral sciences.

684 Advanced Sociological Data Analysis. (3) Selection and use of advanced statistical techniques for analyzing sociological data. Topics include multiple regression and other multivariate models. 
Prerequisite: SOC 682.

699 Seminar in Selected Topics in Sociology. (3) Explores selected topics relevant to the discipline of sociology providing a critical evaluation from a variety of perspectives. May be repeated for different topics. 
A total of 18 hours of credit may be earned, but no more than 3 in any one semester or term.

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**SPEECH PATHOLOGY AND AUDIOLOGY**

[www.bsu.edu/spaa](http://www.bsu.edu/spaa)

Arts and Communications Building 104, 765-285-8161
PROGRAMS

Master of arts (MA) in speech-language pathology and doctor of audiology (AuD)

Admission requirements

Applicants must meet the admission requirements of both the Graduate School and the program in the Department of Speech Pathology and Audiology and must submit transcripts of grades from completed bachelor’s degree programs (including all schools attended at the undergraduate or graduate level), three letters of recommendation, and Graduate Record Examination (GRE) scores. Applicants to the doctor of audiology degree program must also submit a statement of purpose and complete an interview.

MASTER OF ARTS IN SPEECH-LANGUAGE PATHOLOGY

Program is accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology. The master’s degree is a basic requirement for employment as a certified and licensed speech-language pathologist. Graduate study in speech-language pathology includes the academic and practicum requirements needed for Indiana School Services Personnel certification, as well as Indiana state licensure and the Certificate of Clinical Competence (CCC) awarded by the American Speech-Language-Hearing Association (ASLHA). To qualify for the state licensure or the CCC, students must pass a national examination and demonstrate adequate clinical skills during a Clinical Fellowship Year (CFY) under supervision by a certified speech-language pathologist.

Admission requirements

- Students must be admitted to both the department and to the Graduate School to enroll as a degree student.
- Minimum grade-point average (GPA) of 3.0. We receive more qualified applicants than we can accept; meeting or exceeding this average does not guarantee admission.
- Prefer a combined score of 900 on the verbal and quantitative sections of the GRE.
- Three letters of reference (on department forms).
- Transcripts of all previous graduate and undergraduate course work.
- Completed graduate school application.

Degree requirements

The master’s program in speech-language pathology has a strong clinical orientation. Extensive practicum work with close supervision is required and is considered to be a critical component of the program.

For students with backgrounds in speech and hearing (usually bachelor’s degrees), the program consists of a minimum of 56 semester hours including courses in which clinical practicum experience is acquired. For students with undergraduate major in speech and hearing, the program usually takes six consecutive semesters to complete.

The program requires sufficient clinical practicum hours to meet the ASLHA clinical practicum requirements. A comprehensive examination is also required.

Students with no background in speech and hearing but who have bachelor’s degrees must take undergraduate deficiency classes before the regular graduate program can begin. The length of such programs will vary, but they typically take nine consecutive semesters.

Course requirements include the following:

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DOCTOR OF AUDIOLOGY (AuD)

The doctor of audiology degree is a post-baccalaureate degree designed to prepare students for the professional practice of audiology. The program is accredited by the Council of Academic Accreditation in Audiology and Speech-Language Pathology (CAA) and meets requirements for Indiana state licensure. The typical program is four calendar years. The first three years include academic study and intense supervised clinical practicum both on and off campus. The final year consists of a 12-month externship at an approved audiologic facility.

Admission requirements

Applicants must meet the admission standards of the Graduate School and the department’s AuD admissions committee. The committee’s decision is based on several factors, including the applicant’s undergraduate transcripts, Graduate Record Examination (GRE) scores, written recommendations, a written statement of purpose, and an interview. Admission to the program is competitive, and meeting admission requirements does not ensure admission. Preference is given to applicants with undergraduate GPA of 3.2 or higher (on a 4.0 scale) and GRE scores of 500 or higher in the verbal and quantitative sections. Per Graduate School requirements, students admitted to the program are required to maintain a 3.2 GPA or higher throughout their AuD program to remain in good academic standing. Applicants admitted to the program may be required to take undergraduate courses to acquire needed background knowledge if any areas of deficiency in undergraduate preparation are identified. Often, any needed deficiency courses can be taken during the AuD program without extending the length of the program; however, credit for these deficiency courses does not apply toward the AuD degree requirements.

Degree requirements

Degree requirements include a total of 100 credit hours (73 academic credit hours, 18 clinical practicum credit hours, and 9 externship credit hours). Students must accumulate a minimum of 800 practicum hours and complete a 12-month audiologic externship during their final year of study. Students must pass comprehensive examinations and successfully pass a national audiology examination during their last year of on-campus study, prior to externship placement.

Academic and clinical course requirements include:

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56 hrs

Approved graduate courses in other departments may be substituted for SPAA 690.
SPEECH PATHOLOGY AND AUDIOLOGY (SPAA)

500 Survey of Speech-Language Pathology and Audiology. (2) Introduction to speech-language pathology and audiology and a survey of communication disorders. Particularly helpful for persons thinking about careers in communication disorders or in related fields (teaching, nursing, gerontology, etc.).

Not open to students who have credit in SPAA 100.

518 Organic Speech and Language Disorders. (3) An overview of speech and language disorders resulting from organic problems. Areas covered include cerebral palsy, aphasia, cleft palate, dysphagia, vocal abuse, head trauma, and laryngectomy.

Prerequisite: SPAA 161; permission of the department chairperson.

Not open to students who have credit in SPAA 418.

519 Speech Pathology and Audiology Practicum. (1-4) Students engage in observation and preprofessional participation with clients with various speech, language, and hearing disorders.

Prerequisite: SPAA 210, 311.

A total of 4 hours of credit may be earned.

Not open to students who have 4 hours of credit in SPAA 319.

542 Audiology for Deaf Education. (3) Overview of audiology and aural rehabilitation for deaf-education majors.

Prerequisite: SPAA 101; SPCED 240 or 540.

Not open to students who have credit in SPAA 342.

Open only to deaf-education majors or by permission of the department chairperson.

543 Introduction to Audiology. (3) Overview of the anatomy and physiology of hearing, hearing disorders, hearing assessment, and hearing screening.

Prerequisite: SPAA 161, 260 or 560.

Not open to students who have credit in SPAA 343.

544 Aural Rehabilitation. (3) Overview of aural rehabilitation. Practical implications of various types of hearing losses and appropriate rehabilitative procedures. Amplification, auditory training, speechreading, educational and vocational considerations, and psychosocial implications of hearing loss.

Prerequisite: SPAA 210, 270, 343; or permission of the department chairperson.

Not open to students who have credit in SPAA 344.

545 Clinical Audiology: Orientation and Visitation. (2) Orientation to the practice of clinical audiology in various settings and work environments.

Prerequisite: permission of the department chairperson.

Not open to students who have credit in SPAA 345.

Open only to AuD students.

560 Speech Acoustics. (3) Introduction to the physical nature of speech and its relationship to speech production and perception.

Prerequisite: SPAA 101, 161.

Not open to students who have credit in SPAA 260.

562 Neuroanatomy and Neurophysiology of Speech, Language, and Hearing. (3) Overview of neuroanatomy and neurophysiology with a concentration on neurological mechanisms related to speech, language, and hearing.

Prerequisite: SPAA 161.

Not open to students who have credit in SPAA 361.

Open only to AuD students.

569 Child Language Disorders 1. (3) Introduction to the nature, cause, and treatment of language disorders in children.

Prerequisite: SPAA 270 or 570.

Not open to students who have credit in SPAA 371.

Open only to AuD students.

Not open to students who have credit in SPAA 270.

601 Introduction to Research in Speech Pathology and Audiology. (3) Orientation to research in speech-language pathology and audiology. Develops the abilities to read, evaluate, apply, and conduct research. Includes research writing style, critical reading, literature searches, research design, basic statistics, and computer applications.

Prerequisite: permission of the department chairperson.

610 Child Language: Birth to Five. (3) Emphasis on profiling the language and communication characteristics of various populations (e.g., neonates, autism spectrum disorders, specific language impairment) of young children seen in SLP. Contemporary assessment and intervention practices are reviewed, pertinent to evaluating the efficacy of communication treatment through participation and quality of life outcomes.

Prerequisite: SPAA 371 or equivalent; permission of the department chairperson.

611 Child Language: School Age to Adolescent. (3) Emphasizes communicative competency at the narrative and conversational levels of children with Language-Learning-Disabilities (LLD). Applied clinical service delivery models (e.g., curriculum based-instruction) are reviewed, pertinent to promoting oral language through literacy based assessments and interventions. Various reading disorders (e.g., dyslexia) are discussed when attributed to language impairments.

Prerequisite: SPAA 610; permission of the department chairperson.

620 Diagnostic Clinical Practicum. (1-2) Supervised clinical practice in assessment strategies, collecting clinical data, client interviewing, counseling, preparation of reports, and referral procedures.

Prerequisite: SPAA 319 (3 enrollments) or equivalent and permission of the department chairperson.

A total of 2 hours of credit may be earned.

Open only to SPAA graduate students.

621 Speech Sounds Disorders 2. (3) Advanced study of pediatric articulation and phonologic disorders. Survey of modern approaches to phonologic analysis and intervention techniques emphasizing critical review of the professional literature in its historic context. Overview of single subject designs and accountability procedures.

Prerequisite: SPAA 210 or its equivalent.

Open only to SPAA graduate students.


Open only to SPAA graduate students.

624 Diagnosis and Appraisal 2. (3) Emphasis on the evaluation of communication disorders across the life span with diverse populations. Psychometric properties of norm-referenced and criterion-referenced tests are reviewed in relationship to assessment practices in SLP. Alternative assessment models are introduced, which provide functional and meaningful data for the diagnosis and treatment of communication disorders.

Prerequisite: SPAA 312 or equivalent.

Open only to SPAA graduate students.

625 Voice and Resonance Disorders. (4) Assessment and therapy strategies for voice and resonance disorders including functional, organic, neurologic, laryngectomy, velopharyngeal insufficiency, and cleft lip and palate are addressed. Description and treatment strategies involving criterion-referenced,
instrumented assessments, and introduction to videostroboscopy are included.

Open only to SPAA graduate students.

628 Advanced Clinical Practice. (2-10)
Students diagnose and treat children and adults with speech and/or language disorders. Ordinarily a total of 6 hours of credit is earned during three enrollments.

Prerequisite: SPAA 319 (3 enrollments) or the equivalent; SPAA major and permission of the department chairperson.

A total of 10 hours of credit may be earned.

Open only to SPAA graduate students.

629 Professional Issues in Speech-Language Pathology. (3) Overview of professional issues facing clinicians. Examines ethical, multicultural, and service delivery issues in a variety of work settings with clients across the lifespan. Also reviews certification, licensure, and healthcare and education legislation and regulation. Employment and internship opportunities and issues are discussed.

Open only to SPAA graduate students.

631 Augmentative/Alternative Communication and the Nonvocal Individual. (3) Needs assessment and communication evaluation considerations; selection and development of appropriate and effective augmentative/alternative communication systems for nonvocal people including communication boards, electronic instrumentation, etc. Program development for individual needs and abilities of clients.

632 Neurogenic Disorders 1. (3) Advanced study of the central nervous system and its relationship to the causes, assessment and management of aphasia, right hemisphere dysfunction, and associated motor speech disorders.

Prerequisite: SPAA 161, 361 or equivalents; permission of the department chairperson.

633 Neurogenic Disorders 2. (3) Advanced study of the nature, causes, assessment, and management of dementia and traumatic brain injuries. Includes the study of normal aging and cognitive functions.

Prerequisite: SPAA 632; permission of the department chairperson.

640 Dysphagia. (3) Introduction to dysphagia with emphasis on knowledge needed to evaluate and treat adults with swallowing disorders. Current trends and issues will be studied. Normal and disordered swallowing across lifespan examined. Clinical and ethical decision making will be discussed.

Prerequisite: permission of the department chairperson.

Open only to SPAA graduate students.


Prerequisite: SPAA 343, 344 or permission of the department chairperson.

648 Hearing Anatomy, Physiology, and Disorders. (4) Graduate level study of the anatomy and physiology of the hearing mechanism and of conductive, sensorineural, and central hearing disorders.

Prerequisite: SPAA 343.

649 Clinical Orientation and Practicum in Audiology. (2-10) Orientation to clinical practicum in audiology. Practicum experience in a variety of diagnostic and habilitative procedures.

Prerequisite: SPAA 343, 344 and concurrent or prior enrollment in SPAA 655; permission of the department chairperson.

A total of 10 hours of credit may be earned.


Prerequisite: SPAA 343, 344.
651 Auditory Problems and Management in Adults. (3) Topics specific to the nature and management of auditory problems in adults. Tinnitus, cerumen management, assistive devices, adult and aural rehabilitation and hearing aid orientation, self-assessment scales, consumer groups and advocacy.

Prerequisite: SPAA 343, 344.


Prerequisite: SPAA 260, 659.

653 Balance Function and Assessment. (3) Anatomy and physiology of balance. Assessment of balance function through electronystagmography, evoked potentials, and other available measures. Diagnosis and treatment of balance disorders as related to the audiology scope of practice.

Prerequisite: SPAA 161, 343; permission of the department chairperson.


Prerequisite: SPAA 161, 343, 648; permission of the department chairperson.


Prerequisite: SPAA 260, 343.


Prerequisite: SPAA 655.

657 Advanced Diagnostic Audiology. (3) Site-of-lesion tests other than immittance, evoked potentials, and electronystagmography. Central auditory processing disorders: nature, diagnosis, and management.

Prerequisite: SPAA 655.

658 Private Practice and Related Professional Issues. (2) Consideration of issues related to private practice audiology. Includes information on how the history of audiology and hearing aid dispensing has affected the profession. Other professional issues, such as certification and licensing, will be discussed.

659 Industrial Audiology and Noise Induced Hearing Loss. (2) Audiologic practice in industrial settings, noise induced hearing loss, and industrial sound surveys.

Open only to students enrolled in the AuD program.


Prerequisite: SPAA 343, 648; permission of the department chairperson.

Open only to students enrolled in the AuD program.

661 Cochlear Implants. (2) Cochlear implants, including candidacy, devices, speech perception and production, aural rehabilitation, and educational implications. Includes brainstem implants.

Prerequisite: SPAA 343, 344, 648, 650, 654, 656, 657.

662 Pharmacology for Audiologists. (2) Pharmacology as related to the practice of audiology, including ototoxic agents and interdrug reactions.

Prerequisite: SPAA 648, 655.

663 Counseling Issues in Audiologic Practice. (1) Counseling issues related to the practice of audiology.

Prerequisite: SPAA 650, 651, 655.

664 History and Issues of the Profession of Audiology. (2) History of the profession of audiology. Past, present, and future issues facing the profession.

Prerequisite: permission of the department chairperson.

Open only to students enrolled in the AuD program.
680 Genetics of Communication Disorders. (2) Current issues in the genetics of communication disorders. Introduction to cytogenetics, mutation and chromosomal aberrations, traditional and nontraditional inheritance, development, pedigree analysis, genetic testing, genetic counseling, ethical considerations, and the latest on clinical characteristics and molecular genetics of syndromic and non-syndromic communication disorders.

Open only to Audiology or Speech Language Pathology graduate students.

690 Seminar in Speech-Language Pathology. (1-6) Seminars will be offered on selected topics in speech-language pathology. Topics to be covered will be identified in advance for each seminar offered.

Prerequisite: permission of the department chairperson.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

691 Seminar in Audiology. (1-4) Offered on selected topics in audiology. Topics to be covered will be identified in advance for each offering.

Prerequisite: permission of the department chairperson.

A total of 4 hours of credit may be earned.

692 Directed Study in Speech-Language Pathology and Audiology. (1-3) Individual directed study in speech-language pathology and audiology.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

693 Internship in Speech Pathology or Audiology. (3-9) On-the-job experience in such places as hospitals, rehabilitation centers, private practices, nursing homes, community speech and hearing centers, etc.

Prerequisite: permission of the department chairperson.

A total of 18 hours of credit may be earned, but no more than 9 in any one semester or term.

695 School Internship in Speech-Language Pathology or Audiology. (3-9) On-the-job experience in a school setting.

Prerequisite: permission of the department chairperson.

A total of 18 hours of credit may be earned, but no more than 9 in any one semester or term.

749 Audiology Practicum. (1-4) Supervised clinical practicum in audiology on and off campus. Experience in a variety of diagnostic and rehabilitative procedures.

Prerequisite or parallel: SPAA 343, 655; permission of the department chairperson.

A total of 26 hours of credit may be earned, but no more than 4 in any one semester or term.

Open only to AuD students.

766 Hearing Aids 2. (3) Advanced course on hearing aids, including middle ear implants.

Prerequisite: SPAA 656.

770 Grand Rounds in Audiology. (1) An in-depth review and analysis of a variety of clinical cases and topics related to the professional practice of audiology.

A total of 3 hours of credit may be earned, but no more than 1 in any one semester or term.

Open only to students enrolled in the AuD program.

771 Audiology Doctoral Project. (2 or 3) Audiology doctoral project on approved topic.

A total of 3 hours of credit may be earned.

Open only to students enrolled in the AuD program.

793 Audiology Externship. (3) Full-time, 12-month externship in an approved audio-logic facility under the joint supervision of the university audiology faculty and the externship site professional staff. Externship may be completed at one or more sites. Taken for three consecutive semesters.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

Open only to students enrolled in the AuD program.
Ball State University’s Teachers College is one of the largest granters of professional education degrees in the United States. The college’s reputation for leadership is the result of its emphasis on educational practice and applied research.

The appeal of graduate programs in Teachers College arises from small class sizes that enable students to develop close working relationships with faculty and to interact frequently with their peers. Graduate programs emphasize practicing skills that emerge from theory and research, selected study of research with implications for solving problems or improving practice, opportunities to conduct significant research studies under the guidance of scholars, and an excellent placement record.

For many years, graduate programs in education focused on training and developing instructional and administrative leaders in traditional school settings. More recently graduate programs have been created to broaden the expertise of managers in business, industry, and community organizations; to train psychologists for work in community agencies and private practice; and to provide second-career opportunities for retirees from military, corporate, and government positions.

Teachers College offers doctoral, specialist, and master’s degree programs in a variety of subjects. Degrees are offered by the Department of Counseling Psychology and Guidance Services (PhD in counseling psychology, MA in counseling, MA in social psychology, dual major in social psychology and clinical mental health counseling), the Department of Educational Leadership (EdD and MAE in educational administration and supervision, EdS in school superintendency), the Department of Educational Psychology (MA in school psychology, and MA in educational psychology, EdS and PhD in educational psychology [school], and PhD in educational psychology [general.], the Department of Educational Studies (MA in adult and community education, MA in curriculum and educational technology, MA in executive development for public service, MA in secondary education, MA in student affairs administration in higher education, EdD in adult, higher, and community education, PhD in educational studies), the Department of Elementary Education (PhD, EdD, and MAE in elementary education, and MAE in teaching elementary education), and the Department of Special Education (MA, MAE, and EdD in special education).

See the Science listing under the College of Sciences and Humanities, page 180, for the doctoral programs in science education and philosophy in environmental science.

Applicants for graduate programs in Teachers College must meet all university admission requirements. In addition, applicants for specialist (EdS) and doctoral (PhD, EdD) programs must submit their scores on the verbal and quantitative sections of the Graduate Record Examination (GRE). Individual departments may establish other admission requirements. Students admitted to MAE programs are required to complete three courses from a professional education core, including the following:

### Educational Foundations

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297
Students admitted to doctoral programs in Teachers College must complete the following: EDPSY 640 or equivalent, 641 and 642 or another course from among qualitative and quantitative options: ID 705; one course from humanistic studies; and one course from behavioral studies.

EDUCATION: GENERAL (EDGEN)

500 Analysis of Contemporary Educational Issues. (1-8) Crucial contemporary issues in education are studied to determine their origin, status, and significance; to search for possible solutions through in-depth analysis; and to arrive at logical and practical personal positions.

A total of 8 hours of credit may be earned.

690 Independent Study. (1-4) Designed to meet the needs of students who wish to conduct independent study and research in education.

Prerequisite: permission of the department chairperson.

A total of 4 hours of credit may be earned.

692 The Supervision of Student Teachers. (3)

For elementary and secondary teachers, school supervisors and administrators who will be cooperating in student-teaching programs. Placement and orientation of student teachers, program experiences for student teachers, diagnosing teaching difficulties, conference procedures, and evaluation techniques.

EDUCATIONAL LICENSE OFFICE

www.bsu.edu/teachers/otes/licensing
Teachers College 915, 765-285-1168

Teaching Licenses (a portion of these undergraduate programs may be taken as graduate level for licensing-only graduate students)

Business Education
Career/Technical Ed—Business
Career/Technical Ed—Family and Consumer Sciences

Career/Technical Ed—Marketing
Career/Technical Ed—Trade and Industrial Chemistry
Communication Disorders (speech pathology master’s level license)
English/Language Arts (includes communication studies option)
English as a New Language (graduate-level program)
Exceptional Needs—Hearing Impaired
Exceptional Needs—Intense Intervention
Exceptional Needs—Mild Intervention
Exceptional Needs—Severe Interventions
Exceptional Needs—Visually Impaired
Fine Arts—Instrumental and General Music
Fine Arts—Theater Arts
Fine Arts—Visual Arts
Fine Arts—Vocal and General Music
Foreign Language—French
Foreign Language—German
Foreign Language—Japanese
Foreign Language—Latin
Foreign Language—Spanish
Generalist: Early Childhood
  (Birth—Grade 3)
Generalist: Early and Middle Childhood
  (Elementary)
Generalist: Early Adolescence (junior high—must have two core-content areas or a nongeneralist license in a specific content area)
Options for the two core-content areas required above are as follows:
  Earth/Space Science
  Life Science (biology and general science)
  Physical Science (chemistry and physics combination)
Journalism
Mathematics
Physics

Sciences:
  Earth/Space Science
  Life Science
  Physical Science

Social Studies: (three areas required on this license)
  Economics
  Geographical Perspectives
  Government and Citizenship
  Historical Perspectives
  Psychology
  Sociology
  Technology Education

Licensing Programs

Programs at the graduate level preparing persons for teacher licensure are based on the current rules and standards, “Rules 2002,” for the state of Indiana. The Indiana Professional Standards Board has approved programs at Ball State University that meet the requirements for the following license types:
  Instructional
  School Services
  Administrative

Programs for those students currently in programs who started prior to fall 2002 and will complete prior to June 2006, are under licensing “Rules 46-47.” These licensing programs must be completed and the licenses applied for prior to June 2006.

Licenses available under these rules included the following license types:
  Instructional
  Instructional Supervision
  School Services
  Administrative

These are available at the following license gradations:

Initial Practitioner to Proficient Practitioner

Anyone finishing a licensing program under licensing “Rules 46-47” who began a program prior to fall 2002 and also finishes that program and applies for the license prior to June 2006 will be issued a standard license rather than an initial practitioner license. This license will be valid for five years. The Beginning Teacher Internship Program (BTIP) must be completed and the back of the license signed by the employing principal to be valid from then until the expiration date on the license. This standard license must be renewed every five years as outlined for the proficient practitioner license below.

Under new state licensing rules “Rules 2002,” which went into effect fall semester 2002, the initial license issued within each license type will be the initial practitioner license. Upon successful completion of the two-year Beginning Teacher Assessment Program
(BTAP), those teachers eligible may apply for a proficient practitioner license. State-projected start date for the BTAP is fall 2003. This proficient practitioner license must be renewed every five years by completing renewal requirements set by the Indiana Professional Standards Board (IPSB). If these requirements are met by completing 6 semester hours of course work through Ball State, our office must approve application for renewal and forward application materials to the IPSB for processing.

Accomplished Practitioner

Anyone finishing a licensing program under licensing “Rules 46-47” who began a program prior to fall 2002 and also finishes that program and applies for the license prior to June 2006 will be issued a professional license rather than an accomplished practitioner license. This professional license equates to a one-time 10-year license renewal.

Under new state licensing rules “Rules 2002,” which went into effect fall semester 2002, the accomplished practitioner license will be valid for 10 years and issued as the highest grade of license. This license may be earned by completing all of the requirements set by the Indiana Professional Standards Board (IPSB) for this license. These requirements include experience of a minimum of five years on a proficient practitioner license, along with a master’s degree, EdS, EdD, or PhD, and any additional requirements set by the IPSB, as well as certification by the National Board of Professional Teacher Standards of a teaching area recognized by the board.

LICENSE RENEWAL

The license is valid for five years from the date of application, if the licensee has completed an approved program and required tests within the five-year period immediately preceding application. If application is not made within that five-year period the applicant must complete an additional 6 semester hours of approved academic credit and required tests before licensure. Six semester hours of approved credit are required for each renewal or alternate criteria set by IPSB.

Licenses must be renewed every five years, except for the professional license, for which the initial licensing period is 10 years, followed by five-year renewal periods. The professional license may be renewed by completing 6 semester hours of approved academic credit or alternate criteria set by IPSB.

Credit for renewal must be earned only during the five-year period immediately preceding the renewal application and in the certification major, minor, or professional education. Approval of credits for license renewal is guided by official university policy as well as state guidelines and is administered by the educational license office.

Policy for Renewing Instructional, School Services, or Administrative Licenses

Indiana instructional, school services, and administration and supervision licenses may be renewed with 6 semester hours of academic credit in “the major, minor, or professional education or alternate criteria set by IPSB.” The terms major and minor refer to areas already on the candidate’s license including majors, minors, primary areas, supporting areas, and endorsements. The term professional education refers to the type of course that may be used to meet the professional education requirements of the candidate’s license.

Candidates who expect to receive the recommendation for license renewal from Ball State University must comply with the following policies when making decisions about course selection for purposes of license renewal:

Renewing the Standard or Professional License

All course work must meet the following criteria:

- At least 3 of the 6 semester hours must be earned through Ball State University.
- Graduate (or undergraduate) credit must be earned with a minimum GPA of 2.5 and no grades below C.
- Graduate credit will not be accepted if earned by correspondence or a similar method, e.g., noninteractive television. Courses offered by other institutions by television or video will
be considered unacceptable unless the applicant can verify that the courses were interactive in nature.

- The credit must be earned during the five-year period immediately preceding the license renewal.
- The courses must be in (or related to) the subjects or disciplines on the candidate’s license.
- The courses must be appropriate for the license held by the candidate.

Before registering for courses to be used for license renewal, make sure they can be counted for that purpose, especially if they are questionable. A written statement of approval can be obtained from the educational license office stating that the course(s) will count for that purpose.

Renewing the Limited License

All course work (professional education, subject-matter, and general education) taken to renew the limited license must be selected only from the list of deficiencies for earning the standard/initial practitioner license as determined by the educational license office. In addition, it must meet all of the criteria specified in the previous section with one exception: the credit must have been earned during the previous academic year.

Additional license areas may receive approval from the Indiana Professional Standards Board (IPSB). See the educational license office for more information.

REQUIREMENTS FOR ADMINISTRATIVE LICENSES

District Administrator: Superintendent

- Requires a minimum of an EdS degree in school superintendency.
- School Leaders Licensure Assessment completed with a score of 165 or higher.
- Further information regarding this program may be obtained by contacting the educational license office.

BUILDING LEVEL ADMINISTRATOR (K-12)

The following items, along with the required course work, must be completed prior to applying for this license:

- Master’s degree completed (Ball State’s program or a program taken elsewhere). Students who wish to complete this program as a combined master’s degree and a licensing program, must meet all admission criteria for a master’s and be accepted through the Department of Educational Leadership and the Graduate School. Completion of the courses below will not guarantee a master’s degree will be granted, unless you have been accepted into the master’s degree program.
- Two years of teaching experience in an accredited school or schools in the grade coverage and areas as listed on your standard or proficient grade teaching license. This must be verified in the form of a letter by your employing school system and submitted to the educational license office prior to or at the time of application for this license.
- School Leaders Licensure Assessment test completed with a satisfactory score.

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| Required courses | EDAD 600 Intro Ed Led 3 |
|                 | 630 Humn Resourse 3 |
|                 | 635 Ed Dec Makng 3 |
|                 | 684 Ed Fin Ethcs 3 |
|                 | 686 School Law 3 |
|                 | 689 Sch Principl 3 |
|                 | 694 Princ Intern (3) 6 |
| EDCUR 601 Curric Devel 3 |
| EDPSY 640 Methodology 3 |
| EDSUP 650 Superv Instr 3 |

One course from

| EDFON 631 Philosphy Ed (3) |
| 641 Hist Amer Ed (3) |
| 651 Ed Sociology (3) |
| EDMUL 660 Muti Clt Eth (3) 3 |

36 hrs
DIRECTOR OF CURRICULUM AND INSTRUCTION

Under the Indiana Administrative Code (Rules 2002), the following criteria are specified for candidates wishing to obtain the Director of Curriculum and Instruction license:

• hold a proficient practitioner license;
• successfully meet the standards for the district level administrator;
• successfully meet all developmental standards;
• successfully obtain a master’s degree;
• successfully complete the School Leaders Licensure Assessment (SLLA);
• be recommended by the licensing advisor of the accredited institution.

“The holder of the district level administrator; director of curriculum and instruction license is only able to serve as a director of curriculum and instruction administrator or supervisor. The district level administrator; director of curriculum and instruction licensure applies to all who have the role or responsibility for direct supervision or primary evaluation of other licensed personnel, regardless of title, for example assistant to, assistant, or deputy.” (p. 17, Indiana Administrative Code).

Program of Studies

Candidates who wish to apply for the Director of Curriculum and Instruction License (District Level Administrator License) will be expected to hold a Master of Arts in one of the following areas: elementary education, secondary education, educational administration and supervision, curriculum and educational technology; meet the minimum criteria defined under Rules 2002; and have taken the following courses:

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Director of Career/Technical Education

• Requires a minimum of a master’s degree.
• Further information regarding this program may be obtained by contacting the educational license office.

Director of Exceptional Needs

• Requires a minimum of a master’s degree.
• Further information regarding this program may be obtained by contacting the educational license office.
• Students must hold a master’s degree to obtain this license. In addition, at least a
proficient practitioner level license is required to enroll in this program.

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36 hrs

SPCEg 686 is required for students without the prerequisite for SPCEg 687.

**REQUIREMENTS FOR SCHOOL SERVICES LICENSES**

**School Counselor**

- Requires 45-48 semester-hour master’s degree in counseling psychology (school track) or a master’s degree in community counseling along with the appropriate additional course relating to a school setting to meet the licensing requirements.
- Further information regarding this program may be obtained by contacting the educational license office or the Department of Counseling Psychology.

**School Nurse**

- Requires a bachelor’s degree in nursing along with a registered nurse’s (RN) license from the Indiana Health Professional Bureau.
- Further information regarding the process of applying for this license may be obtained by contacting the educational license office.

**School Psychologist**

- Requires a minimum of a master’s degree.
- Further information regarding this program may be obtained by contacting the educational license office.

**Speech, Language, and Hearing Clinician**

See the Department of Speech Pathology and Audiology for more information.

**REQUIREMENTS FOR SPECIAL EDUCATION LICENSES**

The following licensing programs can only be added to existing licenses as minor areas:

**Early Childhood Special Education**

This program adds the developmental level Early Childhood (birth-5 years) to an existing special education license.

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25 hrs

**Exceptional Needs: Hearing Impaired**

The Indiana developmental levels covered by the Exceptional Needs: Deaf license will match
the levels of coverage of the candidate’s existing teaching licenses. Contact the educational license office for other requirements.

**PREFIX  NO  SHORT TITLE  CR HRS**

The following courses or approved undergraduate equivalents:

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**33 hrs**

**Exceptional Needs: Intense Intervention**

The Indiana developmental levels covered by the Exceptional Needs: Severe Intervention license will match the levels of coverage of the candidate’s existing teaching licenses. Please contact the educational license office for other requirements.

**PREFIX  NO  SHORT TITLE  CR HRS**

The following courses or approved undergraduate equivalents:

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<td>Comp Sp Nds</td>
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<td>693</td>
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**30 hrs**

**Exceptional Needs: Mild Intervention**

This licensure program requires an existing elementary and/or secondary teaching license. The Indiana developmental levels covered by the Exceptional Needs: Mild Intervention license will match the levels of coverage of the candidate’s existing teaching licenses. Please contact the educational license office for other requirements.

**PREFIX  NO  SHORT TITLE  CR HRS**

The following courses or approved undergraduate equivalents:

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**24 hrs**

**Exceptional Needs: Visually Impaired**

For teachers wishing to add the license area of visual impairment to their existing license.

**PREFIX  NO  SHORT TITLE  CR HRS**

The following courses or approved undergraduate equivalents:

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<td>Practicum V I</td>
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**18 hrs**

**Teaching License Supplemental Areas—(only to be added to existing teaching licenses)**

**Adapted Physical Education**

This license area may only be added to an existing physical education or exceptional needs teaching license.
Computer Education

This license area may only be added to an existing teaching license.

Computer Education Teaching License
(nonstand-alone license)

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3 hours from

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21 hrs

- The computer education license is available only to teachers who already hold a current elementary, secondary, or all-grade teaching license.
- At the discretion of the Department of Educational Studies graduate advisor or EDTEC program advisor, an introductory course in educational computing may be required for a student seeking a computer education license. If so, any course designed for teachers that is an introduction to computers may be used. In such cases, EDTEC 650 must be taken as an elective.
- Any content-area course that addresses significant curriculum integration of technology may be substituted for EDRDG 545 or MATHS 631.

Gifted and Talented Education

This license area may only be added to an existing teaching license.

COUNSELING PSYCHOLOGY AND GUIDANCE SERVICES

www.bsu.edu/counselingpsychology

Teachers College 622, 765-285-8040

The department’s graduate programs train school, community agency, mental health, and rehabilitation counselors at the master’s level, offer master’s degree-level studies in social psychology, and prepare counseling psychologists at the doctoral level. The master’s degree programs in community counseling and school counseling are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The rehabilitation track is accredited by the Council of Rehabilitation Educators (CORE). The doctoral program is accredited by the American Psychological Association (APA). Degree minors are available to students from other degree or certification programs.

Departmental programs emphasize a balance between didactic and experiential course contact. The scientist–professional model of training emphasizes the integration of practice and research as a mode of problem solving and thinking. A departmental clinic provides opportunity for practicum experiences. Field experiences and internships offer additional integrative experiences.
Student financial support includes doctoral and graduate assistantships.

**PROGRAMS**

Master’s of arts degree (MA) in social psychology, MA degree in counseling, dual major in social psychology and counseling; doctor of philosophy degree (PhD) in counseling psychology

**Admission requirements**

Applicants must apply to both the Graduate School and the Department of Counseling Psychology and Guidance Services. Applicants are screened according to departmental criteria after they have been admitted by the Graduate School. Application deadlines for the programs are as follows: December 15 for the doctoral program; February 1 and June 15 for the MA in counseling (community mental health and school) and MA in social psychology programs; there is no deadline for the MA in counseling (rehabilitation) program. Separate application forms are required by the Graduate School and the department.

**MASTER OF ARTS IN COUNSELING**

An entry-level degree designed for students interested in starting careers in the helping professions. Designed to give students the beginnings of a professional identity as counselors so that they can work in a variety of community settings (clinical mental health track), in public schools (school track), or in rehabilitation. It is also designed as a predoctoral study program in counseling psychology.

**Degree requirements**

- Completion of 15-semester or 24-quarter hours of undergraduate psychology courses with 3.0 GPA on a 4.0 scale.
- Application to the department as well as to the Graduate School.
- MA candidates must pass a written content examination after completing at least 30 hours of course work, pass an ethics test, and receive a grade of B or better in pre-practicum, practicum, and internships. THES 698 (6) or RES 697 (3) may substitute for CPSY 653.

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6 hours of approved electives 6

One course from

CPSY 653 Res Cpy Guid (3)
RES 697 Research Ppr (1-3)
THES 698 Thesis (1-6) 3

60 hrs

Rehabilitation track

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48 hrs

School Track

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51 hrs

Candidates will be issued the school services standard license for counselor after they have completed the following state requirements:

- One of the following professional experiences: (1) a valid out-of-state school counseling license and one year of experience as a school counselor in another state, or (2) an internship in a school setting for one academic year.
- A master’s degree in counseling or a related field and 30 semester hours in counseling and guidance at the graduate level.
- Completion of a supervised practicum in counseling with students at all levels.
- Recommendation by the accredited institution where the approved qualifying program was completed.

The holder of the school services license is eligible to serve as a counselor at all grade levels.

**MASTER OF ARTS IN SOCIAL PSYCHOLOGY**

The MA program in social psychology is designed to give students a strong background for entry into professions such as junior college teaching or program evaluation and personnel work in schools, industry, and other organizations or for further graduate study leading to the doctorate. The MA in social psychology can be of great value in support of careers in education, counseling, social work, criminology, anthropology, special education, and personnel work.

**Degree requirements**

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<td>The applied social psychology program trains students to apply social psychology in industrial and management settings.</td>
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MASTER OF ARTS WITH DUAL MAJOR IN SOCIAL PSYCHOLOGY AND CLINICAL MENTAL HEALTH COUNSELING

Degree requirements

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48 hrs

Five courses from

SOPSY 610 Social (3)
       615 Social Cog (3)
       620 Group Dynamic (3)
       640 Attitudes (3)
       655 Coun Applic (3)
       660 Contemporary (3) 15

SOPSY 620 must be one of the five courses taken.

Recommended elective course

CPSY 624 Coun Pro Dev (3)

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63-66 hrs

DOCTOR OF PHILOSOPHY IN COUNSELING PSYCHOLOGY

The PhD in counseling psychology includes theoretical bases, an experiential component, a research component, and a variety of training assignments. The program contains a core of psychology courses in the social, biological, cognitive, affective, and individual bases of behavior. Most students complete the degree in four to five years.

Degree requirements

Comparable courses may be substituted for some of these courses upon approval of the student's doctoral committee.

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One course from

CPSY 652 Proj Apprais (3)
       657 Obj Apprais (3) 3

Educational Psychology

EDPSY 642 Interim Stat 3
       650 Indv Test WS 3
       746 Theory Meas 3

One course from

EDPSY 741 Ap Regres An (3)
       742 Statist Tech (3)
       743 Factor Analy (3) 3

Psychological Science

PSYSC 613 Developmentl 3
       691 Systems 3

One course from

EDPSY 652 Intro Neuro (3)
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The cognate requirement consists of either one 24-hour cognate in psychology or two 15-hour cognates, at least one of which must be in psychology. Some of the above courses may be applied to the cognate(s), depending on which cognates are chosen.

105-111 hrs

In addition to the requirements listed above, each candidate for the PhD in counseling psychology must:

- have an assistantship position, which is automatically awarded upon acceptance to the program, of 20 hours a week during the first academic year of required residence. One first-year student per year may decline the assistantship during the first year, with permission of the department. Assistantships are also available during the second and third years. Responsibilities include instructional services, counselor supervision, administrative assignments, practicum clinic staffing, and research. In addition to a stipend, an assistantship includes a remission of fees for course work.

- have at the end of master’s and doctoral work at least 400 hours of practicum experience, with at least 150 hours in direct service experience and 75 hours in formally scheduled supervision. Students are expected to enroll in CPSY 749 Practicum in Supervised Experience in Counseling Psychology (1-6) every semester in which they see clients before internship.

- have proficiency in two of the following as demonstrated by meeting departmental criteria: using computers, research techniques, foreign language (proficiency will be determined by the Department of Modern Languages and Classics).

- have research experience supervised by departmental faculty before and in addition to the dissertation.

- complete an APA- or APPIC-approved internship (CPSY 799) for a minimum of 1,500 hours or a calendar year.

Before accepting an internship, students must satisfactorily complete the following experiences: ethics examination, written and oral preliminary examination, comprehensive practitioner skills examination, and dissertation proposal.

Cognates are available in: couples and family counseling, diversity in counseling psychology, health psychology, social justice in counseling psychology, and vocational psychology.

**CERTIFICATE IN IDENTITY AND LEADERSHIP DEVELOPMENT PROGRAM FOR COUNSELORS**

**Admission requirements**

To be admitted to the Certificate in Identity and Leadership Development Program for Counselors, students would need to:

- enroll in a graduate program in counseling or a closely related field or
- completed a school counseling or other student services degree and
• obtain graduate student status. Graduate student status includes transcripts documenting a completed baccalaureate degree and a cumulative undergraduate grade point average of at least 2.5 on a 4.0 point scale, or a 3.0 on a 4.0 point scale in the latter half of the baccalaureate to be enrolled. The courses for the certificate program would be under the Department of Counseling Psychology and Guidance Services.

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**COUNSELING PSYCHOLOGY (CPSY)**

600 Introduction to School Counseling. (3) Counseling and guidance in the schools for counselors, teachers, administrators, and other educational personnel. History and philosophy of school counseling, counselor roles and function, modes of intervention (e.g., direct services, consultation, curriculum), and ethics of school counseling will be studied.

601 Introduction to Identity and Leadership Development for Counselors. (3) Expands upon the Identity and Leadership Development Workshop for Counselors. Students focus on the Nine-Step Success Process and develop the knowledge and skills they need to meet the identity needs of secondary students especially those from diverse backgrounds, or who may be at risk.

Open only to students enrolled in Identity and Leadership Development for Counselors Workshop.

603 Introduction to Rehabilitation Counseling. (3) Introduction to and overview of the profession of rehabilitation counseling including history, philosophy, role, function, preparation, practice, and ethics of the rehabilitation counselor. Includes legislation, societal trends, and organizational structure affecting rehabilitation counseling.

605 Introduction to Clinical Mental Health Counseling. (3) Principles and problems of counseling in an agency setting. History and philosophy of clinical mental health counseling, role and training of the counselor, modes of intervention (e.g., direct service, consultation), and ethics of counseling are included.

Prerequisite: permission of the department chairperson.

Open only to counseling psychology and guidance services masters students; other graduate students by permission.

606 Pre-Practicum Interviewing Skills. (3) Experimental laboratory designed to build basic counseling and interviewing skills. Practice in applying skills will take place through simulations, role playing, and audio and videotapes.

607 Appraisal Methods in Counseling. (3) Overview of measurement principles and major approaches to appraisal of individuals, groups, and environments. Comprehensive appraisal methods, specific techniques for selected problem areas, and standardized vocational and personality tests will be examined relative to the appraisal process in counseling.

608 Psychosocial Aspects of Rehabilitation. (3) Designed to build experience in counseling persons with disabilities and/or chronic health conditions. Emphasizes an understanding of both the psychological and sociological implications of disability.

609 Counseling Ethics and Professional Issues. (3) An advanced professional issues
seminar for mental health counseling students focused on the practice of the licensed mental health counselor in both the private and public sectors. Issues for special attention will include legal, financial, governmental, and ethical considerations.

Prerequisite: CPSY 605, 600 or 603.
Parallel: CPSY 606.

**610 Career Theories and Realities. (3)** Career development theories; relationships among career choice, life-style, and life-span development; psychosocial and reality considerations in life career development; and applications of theories and reality conditions to self and others.

**614 Career Counseling, Assessment, and Interventions. (3)** Psychologists’ and counselors’ roles in using results from career-related assessment and diagnostic tools, intervention strategies related to career exploration, decision making, and life career adjustment; sources and application of career-development materials.

Prerequisite: CPSY 610.

**621 Theories and Techniques of Counseling. (3)** Investigation of major theories and techniques of counseling and psychotherapy. Examination of behavioral, psychoanalytic, person-centered, existential, and relationship-oriented counseling theories. Therapeutic attitudes, ethics, and techniques and their relationship to theoretical principles and concepts will be addressed.

Prerequisite: CPSY 600 or 603 or 605.

**623 Specialized Techniques of Counseling Psychology. (2-6)** Seminar devoted to theory and research in treatment and intervention strategies. Topics vary depending upon current interest and importance in counseling psychology.

Prerequisite: CPSY 621.
Parallel: CPSY 645 may be required for some students.

A total of 6 hours of credit may be earned.

**624 Program Development and Evaluation in Counseling Psychology. (3)** Investigate principles and applications of program development, implementation, and evaluation in counseling psychology. Design programs focusing on identified mental health needs in the community and propose methods for evaluating such programs. Explore commonly used program development and evaluation methods for various counseling settings.

Prerequisite recommended: CPSY 653 or equivalent.

**631 Introduction to the Study of Personality. (3)** An application of psychological principles to an introductory understanding of personality and interpersonal adjustment. Content includes social motivation, frustration, conflicts, adjustive mechanisms, assessment of personality, and some exposure to problems of mental hygiene and psychotherapy.

**634 Introduction to Behavioral Medicine. (3)** An introduction to interventions appropriate for the counseling psychologist in such areas as smoking cessation, weight management, cardiovascular disease, chronic illness, cancer, and stress management. The theoretical, conceptual, and empirical bases of these interventions will be stressed.

**635 Medical Aspects of Disability in Rehabilitation Counseling. (3)** Overview of the various systems of the human body that are involved in disabilities. Acquaintance with terminology, medical specialties that treat physical systems, various therapeutic approaches, and resources for restoring mental and physical functioning.

Prerequisite: CPSY 603.

**636 Psychopathology. (3)** Symptoms and dynamics of psychological disorders with primary emphasis on their development, etiology, prevention, and supporting research evidence.

**637 Introduction to Psychopharmacology. (3)** Introduction to the use of psychotropic medications for treatment of mental disorders as applied to children, adolescents and older adults. Covers function of central nervous system and role of neurotransmitter systems on etiology of
mental disorders. Addresses basic principles of pharmacodynamics and pharmacokineti.

Prerequisite: permission of the department chairperson.

Open only to counseling psychology and guidance services graduate students; other graduate students by permission.

640 Practicum in Group Counseling. (3-6)
Supervised experience in a leadership role in various facets of counseling and therapeutic group interaction.

Prerequisite: CPSY 644, 688.
A total of 6 hours of credit may be earned.

644 Practicum in Counseling. (3) Supervised experience that includes counseling with one or more of the following populations: children, adolescents, adults, couples, and families under the supervision of a professional counselor. Practical experience with the delivery of mental health services including conducting intake assessments and record keeping.

Prerequisite: CPSY 600 or 605 and 606; permission of the department chairperson.
Prerequisite or parallel: CPSY 621.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
Open only to CPSY masters students; other graduate students by permission.

645 Specialized Practicum in Counseling Psychology. (2-6) Advanced experience in counseling psychology using specialized techniques under supervision.

Prerequisite: CPSY 644.
Parallel: CPSY 623.
A total of 6 hours of credit may be earned.

646 Advanced Practicum in Counseling. (3)
Advanced supervised experience that includes counseling with one or more of the following populations: children, adolescents, adults, couples, and families under the supervision of a professional counselor. Practical experience with the delivery of mental health services including conducting intake assessments and record keeping.

Prerequisite: CPSY 644; permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.
Open only to CPSY masters students; other graduate students by permission.

648 Field Experience in Counseling and Guidance. (3-6) Supervised on-the-job experience in a school, business, industry, or community agency in counseling and guidance activities.

Prerequisite: CPSY 646.
A total of 6 hours of credit may be earned.

652 Projective Personality Appraisal. (3) History and theory of projective testing. Types and uses of projectives in relation to diagnosis, therapy, and evaluation.

653 Research in Counseling Psychology and Guidance. (3) Students will investigate, summarize, and interpret research in counseling psychology and guidance. Each student will write and submit a research report to fulfill course requirements.

657 Objective Personality Appraisal. (3) The application of objective personality tests to counseling. The primary emphasis is upon using tests as adjuncts to counseling, i.e., diagnosis, evaluation, and therapy. The major emphasis of the course will be on the MMPI.

662 Couples and Sex Therapy. (3) Principles and techniques for couples, divorce, and sexual counseling. Psychological features of human sexual development and adjustment with emphasis on dysfunction and remediation.

664 Theories and Techniques of Family Therapy. (3) Introduction to various theories and approaches to family therapy including psychoanalytic, systems, strategic, structural, communications, and behavioral. Examination of research in family therapy. Pre-practicum experience in conducting family assessment interviews and family counseling interviews.

675 Counseling the Gifted and Talented. (3) Examination of theory and research on the social, emotional, and career needs of the gifted and talented. Emphasizes counseling program
development, models, and skills to meet the special needs of this population.

676 Principles and Practices of Counseling the Older Adult. (3) Fundamentals of the interviewing and counseling process with older persons. Emphasizes basic concepts, principles, and skills of the helping relationship as applied to the special problems of older adults. The counselor’s attitudes and feelings toward aging and the aged and their influence on the relationship will be considered.

678 Theories and Techniques of Counseling the Culturally Diverse. (3) Designed to build expertise in counseling people of black, Hispanic, Asian, and Native American heritage. Emphasizes understanding the social and political bases of counseling and therapy. Activities may include student case presentation of a client from a different cultural background.

Prerequisite: CPSY 621 or permission of the department chairperson.

679 Advanced Theories and Techniques of Counseling the Culturally Diverse. (3) Designed to develop advanced knowledge of multicultural and cross-cultural issues in counseling psychology. Emphasizes understanding the social and political bases of counseling and therapy. Includes didactic and experiential activities.

Prerequisite: CPSY 678 or equivalent.

680 Social Justice in Counseling Psychology. (3) The history and current status of social justice activities in counseling psychology will be reviewed. Theories, strategies, and ethics of social justice work will be evaluated and applied to different situations. Course includes didactic and experiential activities.

Prerequisite: CPSY 644, 646. A total of 12 hours of credit may be earned.

685 Organization of the Guidance Program. (3) Organization, administration, and functions of counselors, teachers, and administrators in guidance programs. Emphasizes evaluation and improvement of effectiveness and efficiency of the guidance program in facilitating growth and development.

Prerequisite: 9 or more hours in counseling and guidance courses including CPSY 600, 621.

688 Process and Techniques of Group Counseling. (3) Major approaches to group counseling, including theoretical assumptions and basic principles and techniques. Participation experience provides practice in using various approaches and focuses on dynamics and processes of interaction(s) in group counseling.

Prerequisite: CPSY 600 or 603 or 605.

689 Case Management in Rehabilitation Counseling. (3) Includes case management techniques; planning for the provision of rehabilitation services; use of community resources and services; referral; and use of technology in caseload management. Integration of information from program course work with a focus on delivery of services by the rehabilitation counselor.

Prerequisite: CPSY 603, 635, 644; SPCED 566; permission of the department chairperson.

Open only to departmental majors.

690 Issues in Counseling. (1-12) Advanced and intensive study in selected areas of student need and interest in counseling. Opportunity for students to choose particular areas for in-depth study under faculty supervision.

A total of 12 hours of credit may be earned.

695 Field Internship in Counseling. (3-12) Intensive supervised experience in application of basic psychotherapeutic procedures and evaluation techniques in an approved and appropriate setting. Experience will be gained in one or several approved agencies under joint supervision of a university faculty member and an agency representative designated for this responsibility.

Prerequisite: CPSY 644, 646.

A total of 12 hours of credit may be earned.

720 Advanced Theories of Counseling. (3) An in-depth study of selected theories of and approaches to counseling and psychotherapy; further development of students’ personal theories.

Prerequisite: 16 hours of graduate work in counseling psychology.
722 Theories and Techniques of Counselor Supervision. (2) An introduction to and survey of models and methods of counseling supervision. Ethical issues, evaluation methods, research, and developmental issues in supervision are presented. Current readings, videotapes, and role playing are used to study the supervision process.

Prerequisite: CPSY 746.

740 Practicum in Counselor Supervision. (1) Supervised experience in the supervision of counselors-in-training. Students will be assigned to graduate practica to supervise practicum students seeing clients in the practicum clinic of the department.

Prerequisite or parallel: CPSY 722.

746 Integrated Scientist-Professional Practicum 1 in Counseling Psychology. (3) Advanced scientist-practitioner training in counseling research and practice, combining a counseling research seminar with a counseling practicum. The seminar covers counseling outcome research. The practicum involves intensive group and individual supervision of student’s counseling experiences.

Open only to doctoral students in counseling psychology or a related field.

747 Integrated Scientist-Professional Practicum 2 in Counseling Psychology. (3) The second semester of an advanced scientist-practitioner combined counseling research seminar and counseling practicum. The seminar covers research and practice aspects of the process of counseling. The practicum involves intensive group and individual supervision of student’s counseling experiences.

Prerequisite: CPSY 746.

Open only to doctoral students in counseling psychology or a related field.

749 Practicum in Supervised Experience in Counseling Psychology. (1-6) Individualized advanced experience in counseling and psychotherapy under the supervision of a faculty member.

Prerequisite: doctoral status, CPSY 746, and at least two other CPSY graduate courses. A total of 6 hours of credit may be earned.

753 Advanced Research Methods in Counseling Psychology. (3) Methods and issues of research in counseling psychology with emphasis on a functional practitioner-scientist model. Students will design a counseling research project, analyze and interpret data, and complete a written research report in article form.

Prerequisite: CPSY 653; EDPSY 642, or the equivalents, or permission of the department chairperson.

797 Seminar in Counseling Psychology. (3) An advanced professional seminar for doctoral students in counseling psychology. The seminar will focus on ethics, legal issues, professional identity, and practice and research issues in counseling psychology.

Open only to doctoral students in counseling psychology.

799 Internship in Counseling Psychology. (0) Experience in duties and responsibilities of the counseling psychologist. Full-time internship (minimum 1,500 hours) in an approved agency under the joint supervision of the university and the internship site professional staff. Normally taken for two or more consecutive semesters.

Prerequisite: admission to the doctoral program and permission of the departmental director of doctoral programs.

Open only to doctoral students in counseling psychology.

SOCIAL PSYCHOLOGY (SOPSIS)

610 Social Psychology. (3) Introduction to theories, findings, and methodology of social psychology.

615 Social Cognition. (3) Includes intensive examination of the current literature and theory of social psychology; gives particular attention to theories of social cognition and perception.

Prerequisite: SOPSIS 610.

620 Group Dynamics. (3) Research on and theory of behavior in small groups, effects on the individual of membership and participation in small and large groups, interaction of group
structure and personality, and the effects of an individual on the group.

Prerequisite: SOPSY 610.

640 Social Psychology of Attitudes. (3)
Examines theoretical and assessment perspectives pertaining to the psychological concept of attitudes.

Prerequisite: SOPSY 610.

655 Counseling Applications of Social Psychology. (3)
Current social psychological theory and research on such topics as social cognition, person perception, and attitude formation and change. Implications for counseling psychology practice and research.

Prerequisite: SOPSY 610.

660 Contemporary Social Psychology. (3)
Selected areas of current interest in social psychology. Deals with contemporary research and publications from both foreign and American sources.

Prerequisite: SOPSY 610.

670 Independent Study in Social Psychology. (1-6)
Intensive individual study of selected topics in social psychology.

Prerequisite: permission of the instructor and program director.

A total of 6 hours of credit may be earned.

690 Seminar in Applied Social Psychology. (1)
Advanced examination of how social psychology can be applied to problems or questions found in industrial, organizational, and health-care settings. Existing research will be reviewed, and new approaches will be considered.

Prerequisite: SOPSY 610; PSYSC 680 or CPSY 653.

695 Internship in Applied Social Psychology. (3)
Experience in applied social psychological research in industrial, organizational, or health-care settings. Students will be jointly supervised by university and internship site staff. Normally taken for two consecutive semesters.

Prerequisite: permission of the director of the MA program in social psychology.

EDUCATIONAL LEADERSHIP

www.bsu.edu/edleadership
Teachers College 918, 765-285-8488

PROGRAMS

Master of arts in education (MAE) in educational administration and supervision; specialist in education (EdS) in school superintendency; and doctor of education (EdD) in educational administration and supervision. Certification programs include K-12 educational administration

MASTER OF ARTS IN EDUCATION DEGREE PROGRAM IN EDUCATIONAL ADMINISTRATION AND SUPERVISION

Admission requirements

Applicants for the MAE in Educational Administration and Supervision must complete the university application for graduate admission form and return it to the Graduate School. To be admitted to graduate study toward this master’s degree, a student must meet the following minimum criteria:

A. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.

B. Have one of the following:
   • An undergraduate cumulative grade-point average (GPA) of at least 2.75 on a 4.0 scale.
   • A cumulative GPA of at least 3.0 on a 4.0 scale in the latter half of the baccalaureate.
- A 3.2 GPA in 9 semester hours of graduate work approved by the chairperson in the major department and an acceptable score on the Graduate Record Examination (GRE). Such students will be considered probationary students until the conditions of their admission have been met.

**General Degree Requirements**

The MAE degree requires completion of at least 36 hours of graduate course work. A minimum of 27 hours must be completed in the major, supplemented by a course in research, a course in curriculum, and a foundations course.

A student must maintain a GPA of at least 3.2 on a 4.0 scale.

The following courses, totaling 27 credit hours, must be taken in educational administration and supervision

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Required courses

**27 hrs**

The remaining 9 credit hours are designated as follows

| EDCUR  | 601 | Curric Devel      | 3      |
| EDPSY  | 640 | Methodology       | 3      |

One course from

| EDFON  | 631 | Philosphy Ed (3)  | 3      |
|        | 641 | Hist Amer Ed (3)  |        |
|        | 651 | Ed Sociology (3)  |        |
| EDMUL  | 660 | Mlti Clt Eth (3)  | 3      |

**9 hrs**

**36 hrs**

**DOCTORAL PROGRAMS**

**Application Process**

The student applies for admission to the doctoral degree program by submitting the following to the Graduate School:

- Graduate application (obtained from the Graduate School or online at [www.bsu.edu/gradschool](http://www.bsu.edu/gradschool))
- One copy of all college/university transcripts
- Graduate Record Examination (GRE) scores

The student submits the following to the Department of Educational Leadership

A professional portfolio consisting of the following items:

- Autobiography (500-1000 words)
- A 3-5 page paper containing the applicant’s philosophy of education and statement of purpose to be accomplished by earning the doctoral degree and describing the contributions the candidate expects to make to the doctoral program and to the profession of educational administration
- A current vitae
- Names and addresses of five references (department will contact them directly)
- One copy of all college/university transcripts

When admission materials have been received, the Department of Educational Leadership reviews and evaluates all application materials. As part of the evaluation, the applicant may be invited to campus for a personal interview. Following the evaluation, the department makes a recommendation to the Dean of Teachers College and the Dean of the Graduate School, who makes the final decision and notifies the candidate.

**Assistantships**

A limited number of doctoral assistantships, awarded on a competitive basis, are available to candidates who are accepted into the doctoral program. In addition to the assistantship stipend, doctoral students receive a remission of the contingent portion of the general fee, remission
of the graduate course fee, and an out-of-state fee waiver.

**SPECIALIST IN EDUCATION IN SCHOOL SUPERINTENDENCY**

The EdS degree in school superintendency provides opportunities for specialized study in the school superintendency. The program assists qualified individuals in developing the knowledge, performances and disposition essential for success in the day-to-day operation of the school system and develops broad understandings relative to the scope and nature of educational programs. The program schedule will qualify the student for the superintendent license. The program includes appropriate work from the field of educational administration and related fields, such as educational psychology, curriculum, adult and community education, educational foundations, and counseling psychology.

**Degree requirements**

The EdS degree in school superintendency requires the satisfactory completion of prescribed graduate course work beyond the master’s degree with a minimum of a 3.2 GPA. All candidates for the degree will have

- completed a minimum of 63 semester-hours of graduate credit including the master’s degree
- a minimum of 24 semester-hours of the “specialist-required courses,” which must be completed at Ball State University.

**Prefix NO Short Title CR HRS**

| Required courses |  |
| EDAD  630 | Humn Resourc 3 |
| EDAD  635 | Ed Dec Makng 3 |
| EDAD  684 | Ed Fin Ethcs 3 |
| EDAD  686 | School Law 3 |
| EDAD  689 | Sch Principl 3 |
| EDCUR  601 | Curric Devel 3 |
| EDPSY  640 | Methodology 3 |
| EDSUP  650 | Superv Instr 3 |

3 hours from EDFON  631 | Philosphy Ed (3) 3 |

| Specialist required courses: (a minimum of 24 semester hours must be taken at Ball State) |
| EDAD  640 | Public Rel 3 |
| EDAD  685 | Fiscal Mangt 3 |
| EDAD  687 | Legal Aspect 3 |
| EDAD  688 | Sch Bldg Grs 3 |
| EDAD  696 | Supt Intern (3) 6 |
| EDAD  698 | Semnr Theory 3 |
| EDAD  780 | Sch Dist Theory 3 |
| EDAD  782 | Spec Cap Sem 3 |

| PSDPSY 603 | Human Devel (3) |
| EDFON  631 | Philosphy Ed (3) |
| EDFON  641 | Hist Amer Ed (3) |
| EDFON  651 | Ed Sociology (3) |

| EDMUL  660 | Mlti Clt Eth (3) 3 |
| EDCUR  610 | Elem Sch Cur (3) |
| EDCUR  620 | Sec Sch Cur (3) 3 |

6 hours from

| CPSY  600 | Intro Sch Co (3) |
| EDEL  644 | Educ Div Soc (3) |
| EDFON  631 | Philosphy Ed (3) |
| EDFON  641 | Hist Amer Ed (3) |
| EDFON  651 | Ed Sociology (3) |
| EDMUL  660 | Mlti Clt Eth (3) |
| EDPSY  603 | Human Devel (3) |
| EDFON  641 | Statist Meth (3) |
| EDFON  646 | Tests Meas (3) |
| EDSTU  671 | Eval Ed Prog (3) 6 |

36 hrs

63 hrs

**Internship**

Each student in the EdS program must complete a supervised internship. The internship assignment will be arranged by the department in consultation with the student. Students are responsible for any necessary leave and other arrangements related to this assignment. Internship assignments will ordinarily be arranged in a school setting to provide a practical, supervised experience in educational leadership. Ball State faculty, in cooperation with an outside agency, will supervise all interns.
Specialist Committee

A three-member committee, consisting of educational administration faculty members, will usually be appointed during the first semester that the student is accepted into the degree program. The committee chair, in consultation with the student, will develop a plan of study. The committee will also conduct the required written and oral examinations when the student has completed all course work.

Deadline for Completion of Degree Work

All requirements (30 semester hours) listed in the “specialist required courses” section must be met within a six-year time limit from the date of the completion of the first class in the specialist in education degree program.

Additional admission requirements

Applicants are expected to have a GPA of 3.2 or higher on previously completed graduate work.

DOCTOR OF EDUCATION IN EDUCATIONAL ADMINISTRATION AND SUPERVISION

The doctor of education degree (EdD) is designed to meet the needs of advanced graduate students who hold or are seeking to assume leadership roles in education and who are dedicated to advancing the profession through quality teaching, research, and service. The curriculum emphasizes school administration in K-12 settings. The program is designed to satisfy the licensing requirements in Indiana for the school superintendency; however, sufficient flexibility exists to design a program to meet the needs of the individual candidate.

Degree requirements

The doctoral degree program with a major in educational administration and supervision consists of a minimum of 90 semester-hours of graduate credit. 48 semester-hours must be completed at Ball State. A master’s degree is required.

Research requirements

A minimum of 15 semester hours in research is required prior to DISS 799.

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ID 705 must be taken two consecutive semesters: 2 hours in fall; 1 hour in spring

3 hours from

| EDPSY | 642| Interim Stat (3)        |        |
|       | 646| Tests Meas (3)          |        |
|       | 785| Multlev Stat (3)        |        |
| EDSTU | 650| Int Qual Rsh (3)        |        |
|       | 660| Ethno Res Ed (3)        | 3      |

Dissertation

Each student is required to write a dissertation on a topic approved by the committee. Students sign up for DISS 799 for a total of 10 dissertation hours.

Required courses

The doctoral student ordinarily will have taken the following educational administration courses for the master’s in educational administration, administrative license, and/or the EdS in school superintendency. A minimum of 40 hours of graduate work is required in the major, a majority of which must be taken at Ball State University.

Master’s courses

| EDAD  | 600| Intro Ed Led            | 3      |
|       | 630| Humn Resourc            | 3      |
|       | 635| Ed Dec Makng            | 3      |
|       | 684| Ed Fin Ethcs            | 3      |
|       | 686| School Law              | 3      |
|       | 689| Sch Principl            | 3      |
|       | 694| Princ Intern (3)        | 6      |
| EDCUR | 601| Curric Devel            | 3      |
Cognate Requirements

The doctoral student must have either two cognate fields (or minors) consisting of a minimum of 15 hours each or a single cognate field consisting of a minimum of 24 hours. For the 15-hour cognate, 9 hours must be taken at Ball State University; 12 hours of the 24-hour cognate must be taken at Ball State University. Cognates are available in all university major fields of study for the master’s, specialist, and doctoral degrees. In addition, cognates are offered in composition; general foundations of business; general field of education; gifted studies; higher education; history, philosophy, and sociology of education; literary theory; literature, couples and family counseling; neuropsychology; psychology of human development, teacher education in higher education; the teaching of English; theory of computing, and research methodology.

Doctoral Committee

The student’s doctoral committee is appointed after the student has been admitted to study for the doctoral degree—usually near the end of the first year of doctoral work. Until the committee has been appointed, the director of the doctoral program or a delegated representative will serve as the program advisor for the student.

Residence Requirement

The residence requirement for this degree is the completion of at least 15 semester hours in two consecutive semesters of graduate work beyond the master’s degree. Summer may be used as one of the semesters for residency purposes.

Additional admission requirements

After admission, the student must begin course work within two years, and all requirements for the degree must be met within seven years from the date of the first course taken after admission to the doctoral program.
Criteria for Selection

The Department of Educational Leadership considers primarily the following criteria in determining its recommendation: the applicant’s Graduate Record Examination (GRE) scores; the GPA in previously completed graduate work; the content of reference letters; the compatibility of the degree program and the applicant’s goals/needs; other evidence of advanced graduate academic skills (writing, research, etc); and relevant career or life experiences/accomplishments.

CERTIFICATE IN CHARTER SCHOOL LEADERSHIP

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EDUCATION: ADMINISTRATION (EDAD)

600 Introduction to Educational Leadership. (3) Examines purposes and organizational structures of educational institutions created by federal, state, and local governments offering programs and services from early childhood through adulthood. Contemporary operational and administrative problems, developing trends, etc., are considered for analysis.

Prerequisite: to be taken within the first 9 hours of the educational leadership program.

601 Introduction to Charter School Leadership. (3) Examines purposes, structures, and the entrepreneurial development of educational institutions authorized by political subdivisions. Explores theoretical, practical, and political dimensions of leadership needed to enhance organizational performance. The management of operations, finances, and facilities are studied. Developing trends are considered for analysis.

Prerequisite: permission of the department chairperson.

Open only to students seeking a certificate in charter school leadership.


Prerequisite: EDAD 600, one additional EDAD course; EDSUP 650.


Prerequisite: EDAD 600, one additional EDAD course; EDSUP 650.

630 Human Resource Development. (3) Focuses on techniques used to maintain effective human relations and use of human resources. Staff evaluation systems, staffing projections, staff-related record management, benefit programs, etc. Emphasizes negotiations in the public sector and contract management.

Prerequisite: EDAD 600.

635 Educational Decision Making. (3) Designed for the student preparing to be a building-level administrator. Designed to build on material of EDAD 600. Decision-making theory will serve as framework from which the student will be expected to use authentic scenarios and real data to investigate/analyze and decide future direction leading to school improvement.

Prerequisite: EDAD 600.

636 Data-Based Decision Making for Charter School Leaders. (3) Educational leaders should rely on data-driven decision making to guide their school improvement efforts and their understanding of their environments. This course provides charter school leaders with
information regarding student assessment systems and state and federal accountability models. Current educational initiatives impacting educational services and standards-based expectations are included. Candidates will learn how to access and evaluate their own school-community data. Candidates will apply research-based decision making models as they analyze relevant school data in order to decide future directions leading to school improvement.

Prerequisite: permission of the department chairperson.

Open only to students seeking a certificate in charter school leadership or renewal of an administrative license.

640 The Educational Administrator and Public Relations. (3) Development and analysis of appropriate organizational, procedural, and administrative arrangements for public relations programs in educational institutions. Problems of developing understanding and effective communication relative to the community power structure, student and teacher militancy, civil rights issues, societal polarization, media relationships, adequate financial support, and instituting educational change.

683 Charter School Law, Human Resources and Special Education. (3) Basic principles of school law with focus on charter school legislation, regulations, and court decisions. Also, focuses on techniques to maintain effective human relations and use of human resources (employment issues, alternative teaching programs). Also, focuses on charter school responsibilities to educate children with disabilities pursuant to IDEA.

Prerequisite: permission of the department chairperson.

Open only to students seeking a certificate in charter school leadership or renewal of an administrative license.

684 Educational Finance and Ethics. (3) Introduction to school finance and school business administration at all levels. Applies contemporary theories of economics to educational funding, sources of revenue, resource allocation considerations, and study of current trends in fiscal structure and operations in education. Includes discussion of ethics in school finance.

685 Fiscal Management of Educational Agencies. (3) Basic concepts of fiscal management, procedures, and practices in educational institutions at all levels. Intensive study of budgeting and accounting as tools for planning and controlling educational operations.

Prerequisite: EDAD 684 or the equivalent or permission of the department chairperson.

686 School Law. (3) Basic principles of school law with special attention to legislation in Indiana and related court decisions. Other related topics such as tenure, teacher dismissal, employment, publications, and limitations on the board of education.

687 Legal Aspects of Education. (3) An advanced course in school law with special attention to research in legal aspects of educational administration.

688 School Buildings, Grounds, and Equipment. (3) Roles and responsibilities of the educational administrator and procedures that contribute to effective planning of new or remodeled educational facilities. Gives special attention to such matters as school surveys, development of educational specifications, standards and guidelines for instructional and service areas, site requirements, financing, construction patterns, equipment needs, and community involvement.

689 The School Principal. (3) Provides overview of this key position. Analyzes/investigates roles and functions of principalship. Emphasis on linking theory to practice, facilitating transition to leadership position, and development of appropriate skills and attitudes. Leadership and management will be addressed. Theoretical concepts and practical illustrations are used to expand insights into the issues facing the school principal.

690 Charter School Leadership for Improving Student Achievement. (3) Provides charter school leaders with the knowledge, skills, and attitudes necessary to improve student
achievement in their schools. Analyzes/investigates roles and functions of school leaders. Emphasis on linking theory to practice. Theoretical concepts and practical illustrations are used to expand insights into current issues facing school leaders.

Prerequisite: permission of the department chairperson.

Open only to students seeking a certificate in charter school leadership or renewal of an administrative license.

692 Inservice Workshop in Education. (1-3) For inservice teachers and administrators who wish to work on educational problems encountered in their own schools. Repeated registrations are permitted. A maximum of 6 hours may be applied to licensure in educational administration and supervision.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

693 Mid-Career Seminar for Educational Leaders. (1-3) Seminar in education leadership for practitioners needing to update knowledge and skills in applied leadership. Repeated registrations are permitted.

Prerequisite: master’s degree; permission of the department chairperson.

A total of 3 hours of credit may be earned.

Open only to practicing educational leaders or educators seeking renewal of administrative licenses.

694 Principal Internship. (3) Practical experience in the duties and responsibilities of the school principal and related problems. The intern will be assigned to a principal in the field.

Prerequisite: permission of the department chairperson or program director.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

696 Superintendent Internship. (3) Practical experience in the duties and responsibilities of the school superintendent and related problems. The intern will be assigned to a superintendent in the field.

Prerequisite: permission of the department chairperson or program director.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester of term.

698 Seminar in Theory of Educational Administration. (3) Focuses on current theories of administration, contributions of behavioral science research to solving administrative problems, and the implication of theoretical orientations to educational administration.

Prerequisite: completion of at least two other EDAD courses.

780 School District Administrator. (3) Effective administrative leadership procedures, processes, and relationships in various types of educational institutions. Attention directed to functions of superintendent and other chief administrators as educational leaders relative to personnel, governing bodies, student groups, educational organizations, other agencies, and various publics.

Prerequisite: completion of at least two other EDAD courses.

782 Specialist Capstone Seminar. (3) Designed to be taken near the end of the student’s specialist program. It is designed to be a culmination of all the knowledge base that the student has been exposed to in course work, practica, and internships.

Prerequisite: permission of the department chairperson or instructor.

Open only to EdS and EdD students.

791 Internship in Educational Management. (3-6) A field assignment with opportunities to participate directly in administrative and supervisory activities within a selected educational operation.

Prerequisite: permission of the department chairperson or program director.

A total of 6 hours of credit may be earned.

798 Advanced Seminar in Educational Administration. (3) A seminar directed at synthesis and refinement of a personal philosophy of education and its practical application in today’s schools. Individual research and critical discussion will characterize student activity. To be taken for two consecutive terms of 3 hours each, for a total of 6 hours.
Prerequisite: permission of the department chairperson or program director.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term. Open only to doctoral students.

EDUCATIONAL PSYCHOLOGY

www.bsuedu/edpsych
Teachers College 524, 765-285-8500

Educational psychology is a social science that involves the study of human development, learning, adjustment, measurement, research, and statistics as they relate to the problem of understanding human beings. These objectives are accomplished through research and service functions and through teaching about human relationships, human development, and changes in human behavior. Programs related to the practical application of psychological principles in psychoeducational settings are offered primarily at the graduate level.

Student financial support includes doctoral and graduate assistantships.

PROGRAMS

Master of arts (MA) in educational psychology and school psychology; specialist in education (EdS) in school psychology; and doctor of philosophy (PhD) educational psychology (school and general), and certificates in clinical neuropsychology, gifted and talented education, human development and learning, and response to intervention.

MASTER OF ARTS IN EDUCATIONAL PSYCHOLOGY

Designed for students seeking a broad background in educational psychology preparatory to enrolling in an advanced degree program. It is valuable to students with specific interests in human development, learning, and measurement and evaluation. As a part of this degree program students may professionalize teaching licenses by selecting appropriate courses.

Admission requirements

Applicants must apply to both the Graduate School and the Department of Educational Psychology. Applicants are screened according to departmental criteria after they have been admitted by the Graduate School. Separate application forms are required by the Graduate School and the department. The application deadlines are as follows: March 1, July 1, and November 1. Please contact the program director for additional information.

Degree requirements

Candidates must complete a minimum of 30 hours of graduate credit approved by the program director. For the 30 hours, there is 18 credit hours in required course work in learning, human development, and research and statistics. Students will also choose a minimum of 12 credit hours fulfilled by either completing a specialization or by choosing courses, in consultation with the program director, deemed appropriate for meeting a student’s professional needs.

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627 Child Devel (3)
or
628 Adoles Devel (3)
or
629 Adult Devel (3)

Electives approved by program
director 12

——— 30 hrs

MASTER OF ARTS IN SCHOOL
PSYCHOLOGY

Designed for students seeking Indiana school
psychologist licensure or school psychologist
certification in other states. It is NASP/NCATE-
approved and is patterned after guidelines
suggested by the National Association of School
Psychologists.

Admission requirements

Applicants must apply to both the Graduate
School and the Department of Educational
Psychology. Applicants are screened according
to departmental criteria after they have been
admitted by the Graduate School. Separate
application forms are required by the Graduate
School and the department. The application
deadline is January 1. Please contact the
program director for additional information.

Combined Admission

In selected instances, applicants with
baccalaureate degrees may be of such
outstanding quality that they are eligible for
concurrent admission into either the MA and
EdS or the MA and PhD programs in school
psychology. Applicants must meet the admission
requirements of the Graduate School, achieve
scores on the GRE at a level commensurate with
master’s degree applicants applying to the
advanced degree programs, and submit the
additional materials appropriate to the degree
program desired (see Admission, Specialist in
Education in School Psychology or Doctor of
Philosophy in School Psychology). Candidates
for admission must be approved by the
department and should contact the program
director for appropriate forms and additional
information.

Degree requirements

Requirements include the satisfactory
completion of a minimum of 30 hours of
prescribed graduate courses with an overall
grade-point average (GPA) of at least 3.0 and a
GPA of 3.0 in courses in the major. Students
seeking Indiana school psychologist licensure
are required to complete at a minimum the
program as outlined under the section,
Requirements for School Services Licenses,
including an academic-year internship. Check
with the program director for any recent changes
dictated by professional organizations or
licensure requirements. All course work must be
approved by the program director.

EdS IN EDUCATIONAL PSYCHOLOGY
(SCHOOL)

Admission requirements

Applicants must apply to both the Graduate
School and the Department of Educational
Psychology. Applicants are screened according
to departmental criteria after they have been
admitted by the Graduate School. Separate
application forms are required by the Graduate
School and the department. The application
deadline is January 1. Please contact the
program director for additional information.

Degree requirements

Candidates for the specialist degree in
educational psychology (school) at Ball State
University must have satisfactorily completed a
minimum of 72 hours of graduate credit beyond
the baccalaureate (that may include credit earned
at the master’s degree level); the departmentally
approved examination; the professional portfolio
of evidence; and supervised practicum and
internship experiences. Because the specialist
degree is intended for those seeking school
psychologist licensure in Indiana and other
states, all course work must be approved by the program director. A full-time continuous residency or an alternate planned experience agreed to by the program director is required for all students while attending the program. See the licensure program for school psychology for a listing of specific course work. Check with the program director for any recent changes dictated by professional organizations or licensure requirements.

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3 hours from
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| EDPSY  | 652 | Intro Neuro (3)    |        |
|        | 750 | Dev Psycpath (3)   |        |
| PSYSC  | 632 | Abnormal (3)       | 3      |

3 hours from
| EDCUR  | 601 | Curric Devel (3)   |        |
|        | 610 | Elem Sch Cur (3)   |        |
|        | 620 | Sec Sch Cur (3)    |        |
|        | 630 | Jr H Mid Cur (3)   | 3      |

3 hours from
| EDPSY  | 603 | Human Devel (3)    |        |
|        | 627 | Child Devel (3)    |        |
|        | 628 | Adolecs Devel (3)  |        |
|        | 720 | Dev Research (3)   | 3      |

3 hours from
| EDRDG  | 610 | El Sch Readg (3)   |        |
|        | 620 | Content Rdg (3)    |        |
|        | 640 | Issues Readg (3)   |        |
|        | 680 | Cls Rdg Diag (3)   | 3      |

3 hours from
| SOPSY  | 610 | Social (3)         |        |
|        | 615 | Social Cog (3)     |        |
|        | 620 | Group Dynamic (3)  |        |
|        | 640 | Attitudes (3)      |        |
|        | 655 | Coun Applic (3)    |        |
|        | 660 | Contemporary (3)   | 3      |

3 hours from
| CPSY   | 678 | Coun Cul Div (3)   |        |
| EDEL   | 644 | Educ Div Soc (3)   |        |
| EDFON  | 651 | Ed Sociology (3)   |        |
| EDMUL  | 660 | Mlti Clt Eth (3)   |        |
|        | 670 | Multrl Minor (3)   | 3      |

69 hrs

DOCTOR OF EDUCATIONAL PSYCHOLOGY (GENERAL)

The doctoral program in Educational Psychology trains research scholars who will contribute to the understanding of teaching, learning and development; educational accountability and program evaluation; and individual differences in learning and adjustment in educational settings. The core program features areas of study such as learning, human development, statistics, measurement and research methods.

Graduates will be skilled researchers with substantive knowledge of measurement, research design, and analysis of data. Graduates will be qualified for academic positions in higher
education and research positions in public and private institutions such as professional evaluation firms and testing companies.

**Admission requirements**

Applicants must apply to both the Graduate School and the Department of Educational Psychology. Applicants are screened according to departmental criteria after they have been admitted by the Graduate School. Separate application forms are required by the Graduate School and the department. The application deadline is March 15. Please contact the program director for additional information.

**Degree requirements**

The PhD program consists of a minimum of 90 hours of graduate credit. Students must complete one 15-hour cognate and may choose from among cognates in the Department of Educational Psychology, including gifted studies, psychology of human development, and statistics and research methods. Cognates from other departments within Teachers College might also be considered, including special education, counseling psychology, teacher education, higher education, curriculum, and educational technology.

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3 hours from

| EDPSY | 765 | Theor Learng (3) | 3 |

3 hours from

| EDPSY | 627 | Child Devel (3)   | 3 |
|       | 628 | Adoles Devel (3)  | 3 |
|       | 629 | Adult Devel (3)   | 3 |

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**Research applications**

6 hours from

| EDPSY | 645 | Nonpar Stats (3)  | 3 |
|       | 740 | Cat Data Anl (3)  | 3 |
|       | 743 | Factor Analy (3)  | 3 |
|       | 744 | Sem Res Meth (1-4)| 3 |
|       | 785 | Multlev Stat (3)  | 3 |
| EDSTU | 660 | Ethno Res Ed (3)  | 3 |
|       | 671 | Eval Ed Prog (3)  | 3 |
| SOC   | 681 | Survey (3)        | 6 |

**Culture and diversity**

3 hours from

| EDEL  | 644 | Educ Div Soc (3)  | 3 |
|       | 651 | Ed Sociology (3)  | 3 |
| EDMUL | 660 | Mlti Clt Eth (3)  | 3 |
|       | 670 | Multlr Minor (3)  | 3 |

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**Directed electives**

9 hours of electives approved by the doctoral committee

| DISS  | 799 | Drs Dissert (1-24)| 10 |

**Cognate**

15

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**PhD IN EDUCATIONAL PSYCHOLOGY (SCHOOL)**

The PhD program consists of a minimum of 90 hours of graduate credit, 48 of which must be completed at Ball State University. The candidate must complete a major in school psychology of at least 40 hours and either a single cognate of 24 hours or two cognates of 15
hours each. As required by the Commission on Accreditation of the American Psychological Association, all students must complete a professional psychology core including courses in the biological aspects of behavior, the cognitive and affective aspects of behavior, and the social aspects of behavior. Course work in individual differences, human development, dysfunctional behavior or psychopathology, cultural and individual diversity, and professional standards and ethics also are required. Theories and methods of assessment and diagnosis, effective consultation and supervision, and evaluating the efficacy of interventions are required course work. In addition, candidates must complete course work in the history and systems of psychology, psychological measurement, research methodology, and techniques of data analysis.

All candidates for the degree must submit a research project for presentation or publication in addition to the completion of a dissertation and a doctoral-level internship at sites approved by both the school psychology internship and program directors. Candidates are expected to meet the requirements for Indiana school psychologist licensure as outlined in the section Requirements for School Services Licenses.

Students applying for the program should check with the program for any recent changes dictated by professional organizations or licensure requirements.

Admission requirements

Applicants must apply to both the Graduate School and the Department of Educational Psychology. Applicants are screened according to departmental criteria after they have been admitted by the Graduate School. Separate application forms are required by the Graduate School and the department. The application deadline is January 1. The department reserves the option of holding personal interviews before candidates are recommended for acceptance into the program. Candidates should contact the program director for additional information.

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Additional Requirements

Completion of a cognate of 24 hours

Complete of at least 10 dissertation hours

132 hrs
DOCTORAL COGNATES

The Department of Educational Psychology offers several doctoral cognates including neuropsychology, gifted studies, developmental psychology, educational psychology, psychological assessment, and research methodology. More information regarding the requirements for each of these cognates can be obtained from the doctoral program director. Examples of cognates that may be chosen from other departments include counseling psychology, clinical psychology, special education, and general education.

CERTIFICATE IN CLINICAL NEUROPSYCHOLOGY

Admission requirements

Admissions standards for graduate study leading to a certificate in Clinical Neuropsychology will be the same as Graduate Admission standards set by the Graduate School for a Doctoral Degree (e.g. GPA 3.0)

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24 hrs

CERTIFICATE IN GIFTED AND TALENTED EDUCATION

Application Process

To be admitted to the Certificate Program in Gifted and Talented Education, students would need to be admitted to the graduate school. Graduate student status includes transcripts documenting a completed baccalaureate degree and a cumulative undergraduate grade point average of at least 2.75 on a 4.0 scale or a 3.0 on a 4.0 scale in the latter half of the baccalaureate to be enrolled. The courses for the certificate program would be under the educational psychology department, but managed through the School of Extended Education.

As all states have different licensing requirements, this certificate may not meet the requirements in every state.

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12 hrs

CERTIFICATE IN HUMAN DEVELOPMENT AND LEARNING

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15 hrs

CERTIFICATE IN RESPONSE TO INTERVENTION

Select two courses from one of the sequences listed below

Behavior (SPCED)

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Reading (ELED)

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or
six credit hours of
discipline specific course
work (with permission).

15 hrs

EDUCATIONAL PSYCHOLOGY (EDPSY)

520 Introduction to the Gifted and Talented Student. (3) Examination of definition, characteristics, and identification procedures related to gifted and talented children in school and society. Review and analysis of research findings pertaining to these topics.

Not open to students who have credit in EDPSY 420.


600 Advanced Educational Psychology. (3) Advanced survey of the concepts related to learning and motivation. Theories, research, and applications are explored with an emphasis on effective learning approaches and implications for instruction.

Prerequisite: EDPSY 390 or equivalent or permission of the instructor.

603 Psychology of Human Development. (3) Advanced lifespan human development. Covers biological, cognitive, and social development from conception to death, emphasizing theories, research, and applications to educational and psychological practice.

Prerequisite: EDPSY 250 or equivalent.

606 Human Learning and Achievement Motivation. (3) Coverage of principles of human learning and achievement motivation applied to education and everyday life. Topics include behavioral, cognitive, and social-cognitive orientations to human learning and achievement motivation.

611 Development of Creative Thinking. (3) Theories and strategies for fostering the creative self and developing creative thinking. Analyzes the effects of personality characteristics and of various biological, cognitive, motivational, and environmental conditions on the development of creative behavior.

612 Psychological Consultation. (2) Examination of the theoretical approaches to psychological consultation. Emphasizes the consultant-consultee relationship in behavioral process, developmental, triadic, organizational, and eclectic models of consultation. Research concerning various models is emphasized.

Prerequisite: EDPSY 653 or permission of the program director.

621 Identification and Evaluation of Gifted and Talented Students. (3) Examination of instructional methodology and curricular organization instrumental in teaching gifted and talented children. Review of past and current instructional practices and emerging innovative adaptations.

Prerequisite: EDPSY 420 or 520.

623 Investigating the Social and Emotional Needs of Gifted Students. (3) Examination of the research related to gifted students and the social and emotional dimensions that are unique to this population. Emphasis is placed on understanding the lived experiences of gifted children as well as social interventions and curricular strategies that can be employed within various educational environments.

Open only to students in gifted and talented license program or with instructor’s permission.

625 Models and Strategies for Gifted Learners. (3) Examination of the theoretical models and strategies used in differentiation of instruction for gifted students. Part of the sequence for the license in gifted education. Students learn models and the instructional strategies necessary for their implementation. In addition, they create their own unit based on one of the models studied.

Open only to students in gifted and talented license program or with instructor’s permission.

627 Child Development. (3) Advanced child development. Covers the biological, cognitive,
and social developmental processes from conception to the transition into early adolescence, emphasizing current research in child development.

Prerequisite: EDPSY 603 or equivalent or permission of the instructor.

628 Adolescent Development. (3) Advanced adolescent development. Covers the biological, cognitive, and social developmental processes from the beginning of puberty through the transition into early adulthood, emphasizing current research in adolescent development.

Prerequisite: EDPSY 603 or equivalent or permission of the instructor.

629 Adult Development and Aging. (3) An advanced course in adult development. Covers the biological, cognitive, and social developmental processes from early adulthood through late adulthood, including death and dying. Content is based on current theories and research.

Not open to students who have credit in EDPSY 355 or EDAC 629.

640 Methodology of Educational and Psychological Research. (3) Development of concepts and skills to enable graduate students to become better informed consumers of educational and psychological research and to provide a foundation for graduate students who may engage in research. Introduction to the common types of research study, the instruments by which studies are carried out, and the interpretation and application of research.

641 Statistical Methods in Educational and Psychological Research. (3) A basic statistical course for graduate students in education. Problems taken from the fields of education and psychology include the computation, interpretation, and application of such statistical techniques as measures of central tendency, measures of variability, correlation techniques, validity and reliability, standard scoring techniques, probability, tests of significance, chi square, and analysis of variance.

642 Intermediate Statistics. (3) An extension of elementary descriptive and inferential statistics through basic statistical research designs, including analysis of variance and covariance.

Prerequisite: PSYSC 241 or EDPSY 641 or a proficiency test administered within the department.

643 Research Design. (3) Systematic presentation of the strategies and methods required to develop and critique research designs to meet the needs of psychological and educational research paradigms. The focus is on developing the skills necessary to conduct independent research in a variety of methodological domains. Both quantitative and qualitative methods will be fully represented.

645 Introduction to Nonparametric Statistics. (3) Focus on statistical methods appropriate for data in which standard assumptions such as normality and equality of variance are not met. Covers approaches for problems from one sample estimates of location to nonparametric multivariate techniques such as factor analysis. Students will learn about methods based on ranks, permutation tests, and the bootstrap.

Prerequisite: EDPSY 641.

646 Tests and Measurements. (3) Educational and vocational tests and measurements used for measuring proficiency, aptitudes, interests, and personality traits and their use in the complete educational program.

650 Individual Testing (Wechsler Scales). (3) Theory and supervised practice in the administration, scoring, and interpretation of the Wechsler Intelligence Scale for children and the Wechsler Adult Intelligence Scale. Other individual intelligence tests will be examined and evaluated.

Not open to students in school psychology program.

651 Personality Assessment of Children and Adolescents. (3) Theory, administration, scoring, and interpretation of personality assessment instruments such as projective techniques, rating scales, personality inventories, etc., typically used for children and adolescents.
**Prerequisite:** individual testing course and a course in personality or permission of the program director.

**652 Introduction to Neuropsychology.** (3) Introduction to brain-behavior relationships with special emphasis on cognitive, biological and sensory motor functioning. Brain dysfunction and common disorders are explored with an empirical approach using basic neuroscience research methods.

**Prerequisite:** graduate status or permission of the instructor.

**653 Individual Cognitive Assessment.** (3) Administration, interpretation, and analysis of individual measures of cognitive functioning.

**Prerequisite:** permission of the department chairperson.

Open only to students in school psychology.

**654 Academic Achievement and Intervention.** (3) Introduction to norm-referenced and curriculum-based assessment of achievement with a focus on intervention planning, implementation, and evaluation. Emphasis on discussion of empirically-based instructional and behavioral techniques.

**Prerequisite:** EDPSY 653 or equivalent; permission of the department chairperson.

Open only to students admitted to the school psychology programs.

**656 Child Neuropsychology.** (3) Advanced study of brain-behavior relationships in children with special emphasis on neurodevelopment. Assessment procedures useful in diagnosis and rehabilitation planning and research concerning various childhood neuropsychological disorders.

**Prerequisite:** EDPSY 652 or permission of the department chairperson.

**659 Concepts in Developmental Neuropsycholinguistics.** (3) Comprehensive review and analysis of neurobiological and environmental developmental theories as applied to language acquisition and behavior. Application of these concepts to language assessment within the context of neuropsychological and psycho-educational evaluation as well as remediation and intervention.

**Prerequisite:** EDPSY 650 or 653 or equivalent, EDPSY 652 or equivalent.

**685 Introduction to School Psychology.** (2) Introduction to the practice of professional psychology in the schools with an emphasis on the history, ethics, scope, role, and activities of school psychologists.

**Prerequisite:** admission into a school psychology program, permission of the instructor.

**686 Pre-Practicum in Consultation.** (1) General orientation to the professional activity of school consultation in educational settings.

**Prerequisite:** admission into a school psychology program, permission of the instructor.

Open only to students admitted to a graduate training program in school psychology.

**687 Pre-Practicum in School Psychology.** (1-4) General orientation to the practice of school psychology in educational and other settings. Time spent with guided and directed experiences in schools and other professional settings.

**Prerequisite:** permission of the department chairperson.

A total of 4 hours of credit may be earned. Open only to students admitted to a school psychology program.

**688 Practicum in Consultation.** (3-6) Application of principles and theories of consultation taught in EDPSY 612. Consultation to school and clinical settings.

**Prerequisite:** EDPSY 612, 653, and 687; permission of the program director.

A total of 6 hours of credit may be earned.

**689 Practicum in School Psychology.** (1-6) Preparation for internship. Supervised experience in the choice, administration, and written interpretation of standardized and nonstandardized assessments in various educational and clinical settings. Interview and observational strategies, as well as professional
standards of practice and legal issues, will be addressed.

Prerequisite: EDPSY 612, 651, 653, 687; or permission of the program director.

A total of 6 hours of credit may be earned.

690 Supervised Internship in School Psychology. (3) Internship in the principles, practices, and applications of psycho-educational evaluation and consultation with a school or other appropriate setting. Ordinarily required if seeking school psychology certification.

Prerequisite: completion of most of the curriculum for certification as a school psychologist; permission of the department chairperson or program director.

A total of 6 hours of credit may be earned but no more than 3 in any one semester or term. Open only to school psychology students.

696 Practicum in Gifted Education. (1-9) Supervised teaching and laboratory experiences with gifted and talented children in educational settings. Meets teaching licensure requirements.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

698 Issues. (3-9) Group or individual investigation and study of current issues, problems, and developments in human development, classroom learning, and evaluation.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

699 Independent Study: Educational Psychology. (1-6) Individual students may participate in planned experiences related to educational psychology that are not provided by the regular sequence, study more extensively than present courses allow in a theoretical area of educational psychology, or conduct independent research related to educational psychology.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

709 Forensic Psychology. (3) A survey of forensic issues in psychology, including instruction in legal issues, principles, and relevant case law. Students will be expected to prepare testimony, examine cases, and participate in mock trial proceedings. Designed for graduate students in psychology, practicing psychologists, and physicians.

Prerequisite: permission of the department chairperson.

720 Developmental Theories and Research Across the Lifespan. (3) An exploration of theories and empirical research models and methods in developmental psychology across the lifespan. Emphasizes formulating research proposals using current models and methods with particular focus on the application of developmental principles to practice in applied settings.

740 Categorical Data Analysis. (3) A survey of statistical methods specifically designed for categorical variables, including chi-square, log-linear models, logistic regression, regression for count variables, and survival analysis.

Prerequisite: EDPSY 641.

741 Applied Regression Analysis for the Social Sciences. (3) A presentation of the rationale of linear regression, its application to the analysis of educational and psychological data, and its relationship to other statistical techniques such as the analysis of variance, discriminant analysis, and factor analysis.

Prerequisite: EDPSY 641, 642 or permission of the department chairperson.

742 Multivariate Statistical Techniques. (3) A survey of the mathematical basis of four methods of multivariate analysis (the discriminant function, the various factor analytic models, the multivariate analysis of variance, and multiple regression) and their relationships to one another. Primary emphasis on practical applications to statistical analysis of educational and psychological data.

Prerequisite: EDPSY 641.

Prerequisite recommended: EDPSY 642, 741.
743 Introduction to Factor Analysis. (3) The mathematical rationale on which the various factor analytic models are based, the relationship of such models to each other and to such other forms of multivariate analysis as discriminant analysis, the multivariate analysis of variance, and multiple regression.  
Prerequisite: EDPSY 641.  
Prerequisite recommended: EDPSY 741.

744 Seminar in Research Methodology. (1-4) Supervised group analysis and consideration of research that is contemplated, in progress, or completed. Special emphasis on appropriateness of design and statistical analysis of data, potential or actual problems, implications of possible or actual findings, and likely avenues for further investigation.  
Prerequisite: EDPSY 641 or the equivalent.  
A total of 4 hours of credit may be earned.

745 Diagnosis and Interventions for Learning and Related Disorders. (3) Discussion of issues of diagnosis and implementation of interventions designed for children with learning disorders.  
Prerequisite: courses in individual assessment and special education highly desirable.

746 Theory of Measurement. (3) Introductory study of major principles underlying psychometric theory including true score models, reliability, validity, norms, scaling, item analysis, and instrument construction. Fundamentals of classical test theory supply background for topics in modern test theory such as item-response models.  
Prerequisites: PSYSC 241 or EDPSY 641 or permission of the department chairperson; EDPSY 646 or the equivalent.

750 Developmental Psychopathology. (3) Emphasis is placed on understanding typical and atypical developmental trajectories throughout the lifespan. Biological family, social, and cultural contexts that contribute to psychological, emotional, and educational disturbances are discussed.

752 Practicum in Neuropsychological Assessment. (3-6) Supervised practice in administering and interpreting a variety of neuropsychological test batteries for children and adults including the preparation of neuropsychological reports. Emphasizes use of the Halstead-Reitan batteries and Dean-Woodcock.  
Prerequisite: EDPSY 652 or the equivalent.  
A total of 6 hours of credit may be earned.

754 Seminar in Neuropsychology. (3) Introduces advanced materials, procedures, and research in clinical neuropsychology. Emphasizes selected neurologic disorders, methods of assessment, rehabilitation, and professional issues.  
Prerequisite: EDPSY 652, 656, 752, or equivalent, or permission of the instructor.

765 Theories of Learning. (3) A doctoral seminar in contemporary learning theories. Covers the systematic roots of learning theories within psychology and their implications for educational and psychological practice.  
Prerequisite: EDPSY 600 or equivalent.

768 Theories of Cognitive Development. (3) A doctoral seminar on the current theories of cognitive development, including constructivist, information processing, and socio-cultural perspectives. Emphasizes both historical writings and current research literature in cognitive development and their application in educational and psychological settings.  
Prerequisite: EDPSY 603 or equivalent.

775 Evidence-Based Treatments in Psychology. (3) Study of empirically supported prevention and intervention strategies. Emphasizes prevention of social, emotional, and behavioral difficulties and the selection and implementation of effective short-term treatments.  
Prerequisite: EDPSY 651, 750, permission of the instructor.

776 Legal, Ethical, and Multicultural Issues in Professional Psychology. (3) Emphasis on development of personal models for legal, ethical, and multicultural issues that arise in professional psychological practice. Critical examination and consideration of commonly
encountered legal and ethical dilemmas. Discussion of issues related to working with diverse populations.

Prerequisite: EDPSY 685, 688; permission of the instructor.

785 Multilevel Statistical Modeling. (3)
Students will learn the most recent statistical models for multilevel data. Methods are appropriate for datasets in which individuals are sampled in clusters, where the assumption of independence is likely to be violated. Surveys multilevel techniques appropriate for ANOVA, regression, categorical, and multivariate data.

Prerequisite: EDPSY 641, 741.

789 Supervision in School Psychology. (3-6)
Directed experience in the supervision of school psychologists. Models and methods of supervision are introduced with emphasis on ethical issues, evaluation, and research. Instruction progresses from theory and role playing to hands-on supervisory experiences.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned.

790 Practicum in Teaching Educational Psychology. (3-6)
Candidates for advanced graduate-degree programs in educational psychology will be closely supervised in giving classroom instruction, in assisting beginning students, and in developing other proficiencies and skills required for successful college teaching.

Prerequisite: admission to advanced graduate-degree programs or permission of the department chairperson.

A total of 6 hours of credit may be earned.

791 Doctoral Internship in School Psychology. (3-6)
Supervised doctoral-level internship involving the theory and practice of psychoeducational assessment and consultation within a school, clinic, or other appropriate setting.

Prerequisite: permission of the program or internship director.

A total of 6 hours of credit may be earned. Open only to students admitted to the PhD program in school psychology.

792 Doctoral Internship in Professional Psychology. (3-9)
Directed and supervised predoctoral internship experience within a school, clinic, or other appropriate setting to meet the requirements of the doctoral program in school psychology.

Prerequisite: permission of the program or internship director.

A total of 9 hours of credit may be earned. Open only to students admitted to the PhD program in school psychology.

EDUCATIONAL STUDIES

www.bsu.edu/edstudies
Teachers College 829, 765-285-5460

The department offers a variety of graduate programs for students interested in working in secondary and junior high/middle school (grades 5–12), higher education, adult and community education, and curriculum and educational technology. Graduate courses and program emphases are available in adult, higher, community, curriculum; history, philosophy, and sociology of education; computer education; multicultural education; higher education; college student affairs; junior high/middle school education; secondary education; supervision; and educational technology. Courses are designed and taught with a balance among theory, research, practice, and skills for the practicing educator.

Specific degree programs prepare graduates for careers in curriculum and instructional leadership, higher education teaching and administration, adult and community education, educational technology,
and organizational development and administration. In addition, post-baccalaureate students seeking initial teacher certification may be able to simultaneously pursue a master's degree program.

**PROGRAMS**

Master of arts (MA) in adult and community education, in curriculum and educational technology, in executive development for public service, in secondary education, and in student affairs administration in higher education; doctor of education (EdD) in adult, higher, and community education; and doctor of philosophy (PhD) in educational studies. A transition-to-teaching program is also available as is a certificates in college and university teaching, computer education, diversity studies, and middle level education.

**MASTER OF ARTS PROGRAMS**

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School.

**Degree requirements**

The MA degree requires completion of at least 30 hours of graduate course work. A minimum of 15 hours must be completed in the major, supplemented by a research course and electives from the major or related subjects. Students must maintain grade-point averages (GPA) of at least 3.2 on a 4.0 scale. An exact program is designed to fit students’ needs and meet degree requirements. A master’s thesis (6 hours) or research paper (3 hours) may be written for the master’s degree program.

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<td>632 Org Adult Ed 3</td>
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<td>634 Adlt Learner 3</td>
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<td>635 Tchg Adlt 3</td>
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<td>638 Pro Com Adlt 3</td>
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<td>648 Com Educator 3</td>
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In addition to these courses, the student must either write a master’s thesis or select one of the following research courses:

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<tr>
<td>EDPSY 640 Methodology (3)</td>
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<td>EDSTU 660 Ethno Res Ed (3)</td>
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<td>697 Grantmnshp (3)</td>
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<td>THES 698 Thesis (1-6) 3-6</td>
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9 additional credit hours in adult and community education or from any other related field.

**Adult Education**

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<td>EDAC 629 Psy Adlt Adj (3)</td>
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<td>655 Cont Ed Prof (3)</td>
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<td>699 Internship (2-6)</td>
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<td>EDSTU 671 Eval Ed Prog (3)</td>
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**General Degree Requirements**

The MA degree requires completion of at least 30 hours of graduate course work. A minimum of 18 credit hours must be completed in the major, supplemented by a research course and electives from the major or related subjects. If students choose electives from the major, they are encouraged to design an area of concentration (9 credit hours) in either adult or community education. Students must maintain GPAs of at least 3.2 on a 4.0 scale. An exact program is designated to fit students’ needs and meet degree requirements.
MASTER OF ARTS IN CURRICULUM AND EDUCATIONAL TECHNOLOGY

This 30-hour program is designed for educators who are seeking to integrate technology into P-12 curriculum and other instructional contexts. Graduates are prepared to become leaders through course work and experiences that focus on development of a conceptual framework in which technology is an embedded aspect of the teaching and learning process and curriculum development strengthens instructional practice. Graduates will be able to develop curriculum and utilize technology in ways that keep pace with the evolving needs of schools and society.

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3 hours from

| EDCUR | 610| Elem Sch Cur (3)   |
| 620   |    | Sec Sch Cur (3)    |
| 630   |    | Jr H Mid Cur (3)   |
| 640   |    | Alt Sch Curr (3)   |

3 hours from

| EDFON | 631| Philosphy Ed (3)   |
| 641   |    | Hist Amer Ed (3)   |
| 651   |    | Ed Sociology (3)   |

21 hrs

In addition to the core courses, students must choose from one of two, 9-hour tracks.

Curriculum track, 9 hours

| EDCUR | 610| Elem Sch Cur (3)   |
| 620   |    | Sec Sch Cur (3)    |
| 630   |    | Jr H Mid Cur (3)   |
| 640   |    | Alt Sch Curr (3)   |
| 673   |    | Curric Eval (3)    |
| 675   |    | Eval Ed Prsl (3)   |
| EDSTU | 680| Stf Dvlp Cur (3)   |

9 hrs

A B or better grade is required in EDSTU 671.

Educational technology track, 9 hours from

| EDRDG | 545| Tech in Rdg (3)     |
| EDTEC | 585| School Infra (3)    |
| 652   |    | Web Mltmedia (3)    |
| 655   |    | Inquiry Simu (3)    |
| 660   |    | Instr Design (3)    |
| 665   |    | Vis Dig Lit (3)     |
| 675   |    | Distance Ed (3)     |
| 680   |    | Advane Media (3)    |
| 685   |    | Assess Tech (3)     |
| 690   |    | Practicum (2-4)     |
| 699   |    | Ind Study (1-4)     |
| MATHS | 631| Tech Mth Tch (3)    |
| SPCED | 631| Comp Sp Nds (3)     |

9 hrs

6 hours maximum for EDTEC 690 and 699 combined.

MASTER OF ARTS IN EXECUTIVE DEVELOPMENT FOR PUBLIC SERVICE

An interdisciplinary and intercollegiate degree, the executive development program prepares graduates to provide educational services in a variety of social, industrial, health and human services, military, and governmental settings. A broad range of courses related to management and public agency administration are offered to prepare students to function in an executive, managerial, or supervisory capacity within government or not-for-profit agencies.
Program Objectives

- Provide an in-depth examination of society and community.
- Develop an awareness of the role of government in individual lives.
- Emphasize an understanding of human behavior and the differences among individuals comprising public service organizations.
- Teach principles of human relations and communication techniques.
- Provide training in the application of principles of administration and management.
- Provide opportunities to design a unique program of study based on educational expectations and occupational goals.

Degree requirements

The MA degree program requires at least 30 credit hours of graduate course work. Students must maintain a GPA of at least 3.0 on a 4.0 scale. Students must complete a research requirement. Students must take at least two courses in adult education and at least one course from four of the other seven categories of study:
- adult education, program evaluation, and staff development
- business and related areas
- communications
- computer science and educational technology
- educational administration and supervision
- health science, gerontology, and wellness
- political science
- psychology
- other concentrations approved by the student’s advisor

It is strongly recommended that students choose one additional course from adult education, management, communication studies, political science, and psychology to complement their skills or competencies and to sharpen a public service focus.

In order to meet research requirements, students often elect from EDPSY 640 Methodology of Educational and Psychological Research; EDSTU 697 The Grant Process and Research; EDSTU 660 Ethnographic Research in Education; or POLS 625 Research Methods in Political Science.

Internship

Students may elect a 2- or 3-hour internship with a business or a not-for-profit firm by taking EDAC 699 Internship in Adult and Community Education. This field experience or internship is under the joint supervision of the university (supervisor) and an experienced practitioner in an approved business or nonprofit setting. Permission of the program director and/or department chairperson is required. A total of 6 hours of credit may be earned.

MASTER OF ARTS IN SECONDARY EDUCATION

The Master of Arts in Secondary Education (MASE) extends the professional knowledge of teachers in six core areas: Curriculum, Educational Technology, Educational Research, Multicultural Education, Pedagogy, as well as the Social Foundations of Education. The program enables practicing teachers to explore theoretical concepts that relate directly to their instruction to improve instructional effectiveness. Students may pursue additional course work in the six core areas or elect courses through which they enhance their knowledge of content. Thirty credit hours of graduate courses are required to fulfill the degree requirements. It is possible to complete the Master of Arts in Secondary Education via distance education or online options.

Degree requirements

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One course from each of the categories

Below
MASTER OF ARTS IN STUDENT AFFAIRS ADMINISTRATION IN HIGHER EDUCATION

This graduate program is designed for those interested in student affairs administration in colleges, universities, and community colleges. The program prepares student affairs educators to work in college and university academic and student support services such as academic advising and support, admissions, career centers, disability services, financial aid, first-year experience, Greek life, health services, housing and residence life, international student programs, judicial affairs, multicultural centers, ombudsperson, orientation, recreation services, registration, religious affairs, service learning, student activities and programs, student life, student voluntary services, and student unions. This program is jointly sponsored by the Department of Educational Studies and the division of Student Affairs.

Admission requirements

Applicants must meet admission requirements of the Graduate School. In addition to being accepted by the Graduate School for regular admission, applicants must submit an application for the graduate program in Student Affairs Administration in Higher Education that includes responding to two essay questions, submitting a resume, and providing contact information for three references. Completed applications are recommended by February 1. Applicants must interview for the graduate program. The majority of interviews are conducted at Interview Day, generally scheduled in late February. Admission offers are made after these interviews.

Degree requirements

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One course from

EDHI 610 Isu High Ed (3)
613 Adm Fin H Ed (3)
640 Comm Col (3)
Research requirements, 3-6 hours from
CRPRJ 698 Creat Proj (3 or 6)
EDPSY 640 Methodology (3)
641 Statist Meth (3)
646 Tests Meas (3)
EDSTU 650 Int Qual Rsh (3)
660 Ethno Res Ed (3)
671 Eval Ed Prog (3)
RES 697 Research Ppr (1-3)
SOC 600 Soc Inquiry (3)
THES 698 Thesis (1-6) 3-6
Electives 3-6

30 hrs

DOCTOR OF EDUCATION IN ADULT,
HIGHER, AND COMMUNITY
EDUCATION

A doctoral program that prepares graduate
students for professions in a variety of
educational, governmental, community,
business, and industrial settings. The
adult/community education track emphasizes
developing skills in management, planning,
personnel and program development, teaching,
and evaluation. The higher education track
emphasizes developing skills in administration,
organizational and policy development,
teaching, curriculum, and social justice
advocacy related to post-secondary institutions.

Admission requirements

Applicants must meet the admission
requirements of the Graduate School. An
applicant must also have a master’s degree from
an accredited college or university, have earned
a graduate grade point average (GPA) of at least
3.2 on a scale of 4.0 at the master’s degree level,
and have acceptable scores on the Graduate
Record Examination (GRE). Applicants must
speak and write standard English fluently,
complete the application process for admission
to the doctoral program, and demonstrate
commitment to adult, higher, and community
education.

General requirements

A minimum of 91 semester hours of graduate
credit beyond the bachelor’s degree. At least 48
of the 91 hours, and at least half of required
hours in the research requirement, the major, and
the cognate must be completed at Ball State.

Degree requirements

Students will earn 12 credits in the Core
Courses, 21 credits in Research Courses, 24
credits in the Major Concentration (either Adult
and Community Education or Higher
Education), and a single cognate of 24 credits or
two cognates of 15 credits each. Completion of
the dissertation earns 10 credits.

DOCTOR OF PHILOSOPHY IN
EDUCATIONAL STUDIES

This integrated interdisciplinary doctorate
addresses changes in the character and delivery
of public education, teacher education, and
educational research through the study of three
related disciplines in educational technology,
curriculum, and social foundations/multicultural
education (i.e., history, philosophy, sociology,
anthropology, etc.). The program addresses the
following critical issues facing education in the
21st century: 1) the increasing role of
technology in learning, instructional design,
curriculum development, assessment, and
pedagogy; and 2) the influence of societal trends
in demographics, economics, and politics on the
structure and culture of schools. The program
serves a variety of professionals who wish to
advance their careers in higher education as
teacher educators and researchers, as well as
curriculum directors, program evaluators and
consultants in schools. Graduates are prepared
with the necessary knowledge, skills, and
understanding to: assist students, teachers, and
policy makers to function in a knowledge
society; implement teaching and learning
strategies; engage in systematic assessment,
evaluation, and research; and, develop strategies
to address the learning needs of changing
populations.
Admission requirements

Applicants must be able to demonstrate their ability to pursue advanced knowledge in each of the three areas of specialization: educational technology, curriculum, and social foundations/multicultural education. Applicants must hold a masters degree from an accredited college or university with a grade-point average of at least 3.5 on a 4.0 scale and have acceptable scores on the Graduate Record Examination (GRE) with a combined score in verbal and quantitative of at least 1000. Applicants must meet the admission requirements of the Graduate School. To complete the application process, applicants must submit the following to the Director of the PhD in Educational Studies:

- application form, available online at www.bsu.edu/webapps/gradapplication;
- five letters of recommendation;
- transcripts of all previous collegiate work;
- a cover letter indicating interest in and expectations from the doctoral program; and
- a sample of academic writing.

In addition, applicants will complete an interview with the PhD committee.

Degree requirements

The PhD in Educational Studies requires a minimum of 90 hours of graduate credit beyond a master’s degree with 63 hours in a common core of courses in the three specializations. The candidate chooses a major track in one of the three specializations, completes one or two cognates representing the other areas of specialization, and authors a dissertation.

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Complete one of the following tracks

**Curriculum track, 16 hours**

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Elective course from EDCUR (not used for curriculum core) 3

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**Educational foundations track, 15 hours**

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Elective courses from EDFON and EDMUL (not used for EDFON core) 9

Elective course from History, Sociology, Philosophy, and Anthropology 3

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**Educational technology track, 15 hours**

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Elective courses from EDTEC (not used for Ed Technology core) 6

Elective courses in Technology outside EDTEC 3

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**DOCTORAL COGNATE IN CURRICULUM**

This cognate will serve a variety of doctoral programs across campus. In consultation with their cognate advisers, students will select the appropriate 15 or 24 hours from the courses below.

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**DOCTORAL COGNATE IN EDUCATIONAL TECHNOLOGY**

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**DOCTORAL COGNATE IN HIGHER EDUCATION**

The study of higher education is intended for students who plan to pursue careers in college and university settings. Students wishing to
become college/university presidents, deans, professors, student affairs administrators, and financial aid advisors, for example, will especially benefit from this cognate.

**DOCTORAL COGNATE IN HISTORY, PHILOSOPHY, AND SOCIOLOGY OF EDUCATION**

Recommended for doctoral students who contemplate teaching courses or conducting research in the field of educational foundations or who wish to strengthen their professional preparation by broadening their understanding of the bases of educational policy and practice.

**DOCTORAL COGNATE IN TEACHER EDUCATION**

Candidates who intend to work in higher education in teacher preparation are the principal beneficiaries of this cognate. Emphasis is on exposing future college professors to the research in teacher preparation and in studying the variety of field and laboratory experiences. Much of the study can be tailored to individual candidates’ needs.

**SENIOR HIGH, JUNIOR HIGH, AND MIDDLE SCHOOL EDUCATION LICENSE (grades 6-12): TRANSITION TO TEACHING**

**Admission requirements**

- Earned baccalaureate degree from regionally accredited college or university in content area of license.
- 3.0 grade-point average (GPA) or 2.5 grade-point average plus five years of work experience in related field.

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**Content Methods**

(e.g., HSC 595 Mth Mtrl H E) 3 18 hrs

**CERTIFICATE IN COLLEGE AND UNIVERSITY TEACHING**

**Admission requirements**

Applicants pursuing only a certificate program will be admitted as nondegree students. A student who completes a certificate, however, can apply these hours to a degree-granting program upon receiving departmental approval. For nondegree seeking students only 9 hours can later be applied to a degree program. Students must become degree seeking before they take the remaining 6 hours for those hours to apply. An applicant must complete an application from the Department of Educational Studies and provide two copies of official transcripts from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work. Standards for admission:

A. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.

B. Satisfy one of the following:
- An undergraduate cumulative grade-point average (GPA) of at least 2.5 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate degree, is used to calculate the GPA).
- A cumulative GPA of at least 2.75 on a 4.0 scale in the latter half of the baccalaureate.
- Students not meeting these criteria may be considered for admission at the discretion of the Department of Educational Studies chair.

C. A student who is currently enrolled in a graduate program of study leading to a degree, who wishes simultaneously to pursue this graduate certificate, must complete the appropriate application, available from the Department of Educational Studies.
D. Graduate students enrolled only in
certificate programs may not hold graduate
assistantships.
E. Students may be enrolled full- or part- time
in the certificate program.
F. Completion of a graduate certificate does
not guarantee admission into a graduate
degree program.

Requirements

Students must earn a C (2.0) or better grade in
each course and a 3.0 GPA in the program.

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| Or equivalent course to be
determined with advisor. |         |        |

Elective Courses
6 elective hours from the following
colleges:

Teachers College
| EDAC 634 | Adlt Learner (3) |          |
| EDAC 635 | Tchg Adlts (3)   |          |
| EDAC 699 | Internship (2-6) |          |
| EDFON 610| Wmn Gnrd Ed (3)  |          |
| EDHI 611 | Tch Cur H Ed (3) |          |
| EDHI 613 | Adm Fin H Ed (3) |          |
| EDHI 640 | Comm Col (3)     |          |
| EDTEC 660| Instr Design (3) |          |
| EDTEC 690| Practicum (2-4)  |          |

Or equivalent courses to be
determined with advisor.

Applied Sciences and Technology
| NUR 620 | Curr Designs (3) |          |
| NUR 622 | Teach in Nur (3) |          |

Communication, Information, and Media
| JOURN 674| Colleg Journ (3) |          |
| JOURN 675| Teach Intern (3) |          |

Fine Arts
| MUSCH 710| Internship (1-6) |          |
| MUSED 610| Mu Tch Learn (3)  |          |
| MUSED 620| Assess Tech (3)   |          |
| MUSED 640| Adv Gen Mus (3)   |          |
| MUSED 650| Adv Chorl Ed (3)  |          |
| MUSED 660| Adv Instr Ed (3)  |          |

Miller College of Business
| BED 620 | Inst Tec BME (3) |          |
| BED 625 | Prob BME (3)     | 6        |

| Or equivalent courses to be
determined with advisor. |         |        |

15 hrs

CERTIFICATE IN COMPUTER
EDUCATION

The Certificate in Computer Education will
develop technical knowledge, skills, and
dispositions for educators to teach computer
education courses and to become teacher-leaders
with technology in the instructional contexts
where they teach. The certificate program would
be a 15 credit hour graduate program available
online.

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**CERTIFICATE IN DIVERSITY STUDIES**

**Admission requirements**

Applicants pursuing only a certificate program will be admitted as non-degree students. A student who completes a certificate, however, can apply these hours to a degree-granting program upon receiving departmental approval. For non-degree seeking students only 9 hours can later be applied to a degree program. Students must become degree seeking before they can take the remaining 6 hours for those hours to apply. An applicant must complete an application from the Department of Educational Studies and provide two copies of official transcripts from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work.

Standards for admission:

A. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.

B. Satisfy one of the following:

1. An undergraduate cumulative grade-point average (GPA) of at least 2.5 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate degree, is used to calculate GPA).

2. A cumulative GPA of at least 3.0 on a 4.0 scale in the latter half of the baccalaureate.

3. Students who do not meet these criteria may be considered for admission at the discretion of the Department of Educational Studies chair.

C. A student who is currently enrolled in a graduate program of study leading to a degree, who wishes simultaneously to pursue this graduate certificate, must complete the appropriate application, available from the Department of Educational Studies.

D. Graduate students enrolled only in certificate programs may not hold graduate assistantships.

E. Students may be enrolled full- or part-time in the certificate program.

F. Completion of a graduate certificate does not guarantee admission into a graduate degree program.

**Degree requirements**

Students must earn a C (2.0) or better grade in each course and a 3.0 GPA in the program.

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15 hrs
CERTIFICATE IN MIDDLE LEVEL EDUCATION

Applicants pursuing only a certificate program will be admitted as non-degree students. A student who completes a certificate, however, can apply these hours to a degree-granting program upon receiving departmental approval. For non-degree seeking students only 9 hours can later be applied to a degree program. Students must become degree seeking before they take the remaining 6 hours for those hours to apply. An applicant must complete an application from the Department of Educational Studies and provide two copies of official transcripts from the institution granting the baccalaureate degree and each institution attended for undergraduate and graduate work.

Standards for admission:
A. Hold an earned bachelor’s degree from a college or university that is accredited by its regional accrediting association.
B. Satisfy one of the following:
   • An undergraduate cumulative grade-point average (GPA) of at least 2.75 on a 4.0 scale (all undergraduate course work, including work completed prior to the baccalaureate degree, is used to calculate GPA).
   • A cumulative GPA of at least 3.0 on a 4.0 scale in the latter half of the baccalaureate.
   • Students who do not meet these criteria may be considered for admission at the discretion of the Department of Educational Studies chair.
C. A student who is currently enrolled in a graduate program of study leading to a degree, who wishes simultaneously to pursue this graduate certificate, must complete the appropriate application, available from the Department of Educational Studies.
D. Graduate students enrolled only in certificate programs may not hold graduate assistantships.
E. Students may be enrolled full- or part-time in the certificate program.
F. Completion of a graduate certificate does not guarantee admission into a graduate degree program.

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15 hrs

EDUCATION: ADULT AND COMMUNITY (EDAC)

629 Psychology of Adult Adjustment. (3) The bases for certain adult behavior patterns and the problems involved in attempts to effect behavioral changes in adults. Not open to students who have credit in EDPSY 355, 629.

631 Adult and Community Education. (3) Overview of adult and community education including the concepts, processes, and trends in both public and private programs at the local, state, national, and international levels. Provides a basis for further study in the adult and community education graduate program.

632 Organizing Adult and Community Education Programs. (3) Administration and leadership of adult and community education programs and organizations. Theoretical approaches and practical skills are emphasized.

634 The Adult as a Learner. (3) An overview of adult learning. Theories, approaches to learning, and current research for the effective education of adults.

635 Strategies for Teaching Adults. (3) Focus on teaching strategies, techniques, and methods suitable for adult learners that are supported by research and tested in practice, including preparation of model teaching units, lesson plans, or activities; testing and evaluation procedures; and learner-assessment techniques.

638 Program Planning in Community and Adult Education. (3) Various approaches and models of program planning are examined with
respect to their use in the practice of adult and community education.

**640 Foundations of Adult and Community Education.** (3) An exploration of the foundations of adult and community education with attention to key figures, issues, institutions, movements and programs, including consideration of the relationships between adult and community education’s historical developments and prevailing intellectual, social, economic, and political conditions.

**644 Collaborative Learning in Adult, Higher, and Community Education.** (3) A recursive experience of the collaborative learning process, such that the participants will learn the collaborative process in a collaborative manner. Prepares learners to serve as facilitators of collaborative learning groups in their professional practice.

**646 Working with Volunteers in Community Agencies.** (3) An examination of the roles of volunteers within community agencies, including recent developments such as service learning and corporate volunteerism. A study of research and effective practice in working with volunteers.

**648 The Community Educator.** (3) The structure, purpose, and processes of community education development with emphasis on the development of skills and competencies required of a community education coordinator.

**655 Continuing Education for Professionals.** (3) A survey of the theoretical and research literature related to continuing education for professionals. A central focus includes an examination of the role of the educator in providing and managing continuing professional education.

**681 Managing Community Education.** (3) Skills and techniques essential to the management of community education projects. Emphasizes supervising and managing community education projects.

**Prerequisite:** EDAC 632, 648; or permission of the program director or the department chairperson.

**690 Independent Study in Adult or Community Education.** (1-6) Exploration of a segment of adult or community education under the direction of an appropriate faculty member.

**Prerequisite:** permission of the program director, instructor, or department chairperson.

A total of 6 hours of credit may be earned.

**698 Seminar in Adult and Community Education.** (3) Group or individual investigations of problems in adult and community education such as adult basic education, education about or for the aging, development of community leadership, and learning in the work place.

**Prerequisite:** admission to advanced graduate degree programs or permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

**699 Internship in Adult and Community Education.** (2-6) A field experience jointly supervised by the university and a competent practitioner in approved settings in general adult education, correctional education, social gerontology, university extension and continuing education, community services, community development, and community education.

**Prerequisite:** permission of the program director or department chairperson.

A total of 6 hours of credit may be earned.

**700 Seminar in Adult and Community Education.** (3) A forum for graduate students of advanced standing to examine contemporary issues, challenges, trends, and ambiguities in the study and effective practice of adult and community education.

**Prerequisite:** permission of the department chairperson or program director.

*Open only to doctoral students in adult and community education and other advanced graduate students.*

**710 Research in Adult and Community Education.** (3) Develop and strengthen research
competencies and critique approaches to research in adult and community education.

Prerequisite: permission of the department chairperson or program director.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

730 Practicum in Adult and Community Education. (2-6) Supervised, individualized experience in adult and community education. Emphasis is on gaining experience in the application of theoretical principles to practice.

Prerequisite: admission to advanced graduate degree programs or permission of the program director or department chairperson.

A total of 6 hours of credit may be earned. Open only to doctoral candidates in adult and community education.

780 Seminar in Managing Lifelong Education Programs. (3) Examines the cultures and climates of organizations, current leadership theories, and practices in the management of adult and community education.

Prerequisite: permission of the department chairperson or program director.

Open only to doctoral students in adult and community education; other advanced graduate students by permission.

EDUCATION: CURRICULUM (EDCUR)

601 Principles and Procedures of Curriculum Development. (3) Curriculum development applicable to all levels of the school system, from early childhood through secondary education. The effect and relevance of curriculum practices; major groups and individuals influencing curriculum; trends and current curriculum changes; approaches to evaluation of curricular experiences; and the role of pupils, teachers, administrators, scholars, parents, and other groups in shaping curricula. Emphasizes current literature and research.

610 The Elementary School Curriculum. (3) The formal and social school-related experiences of elementary school pupils in the light of the purposes of the school. Current elementary school curricular practices and alternatives in the light of research in child development, principles of learning, and current culture.

620 The Secondary School Curriculum. (3) The cognitive, social, aesthetic, and physical experiences of secondary school students in the light of the purposes of the school. Present secondary school curricular practices and alternatives in relation to research on socialization, cognitive development, and aesthetics as they relate to current culture.

630 The Junior High and Middle School Curriculum. (3) Examines several curricular practices designed to produce intended outcomes with students age ten to fifteen. Studies current research, theory, and practices. Develops curricula designed for specific student populations.

640 The Alternative School Curricula. (3) Patterns, theories, practices, and research related to unusual curricular programs developed as options or alternatives to standard approaches for educating general or special groups in elementary and secondary schools. Students develop curricula for alternative programs.

673 Curriculum Evaluation. (3) Students examine and apply approaches to the evaluation of various dimensions of the curriculum planning cycle in a Pre K-12 context in terms of their probable effect on learners and their ability to constrain or enable curricular decision-making for the values of democracy, equity, and diversity.

Prerequisite: EDCUR 601.

675 Evaluation of Educational Personnel to Strengthen Curriculum. (3) Study of the theory and practice of personnel evaluation. Students will complete evaluations of adults working in teaching/learning relationships with others. Students will use an evaluation model designed to improve performance of those evaluated. Students will also experience being evaluated.

690 Problems in Curriculum. (1-9) Specific problems in curriculum development and evaluation are studied, usually as field study.
A total of 9 hours of credit may be earned.

700 Seminar in Curriculum and Staff Development and Evaluation. (3) Students will analyze, with faculty and other advanced graduate students, previous formal study, current research, professional publications, and their own field experiences in curriculum, staff development, and evaluation of programs and personnel. Students will develop a set of theory statements that embody their conclusions.

Prerequisite: one course from EDCUR 601, 610, 620, 630 and one course from EDCUR 675, EDSTU 671, 680, or permission of the department chairperson.

725 Curriculum Theory, Process, and Products. (3) An examination of the theory of human behavior as it relates to study of the development and evaluation of curriculum in formal education. Students will examine existing divergent theories of curriculum and will practice curriculum-theory building.

798 Seminar in Curriculum Development. (3-6) Development of a conceptual framework based on general systems theory for guiding, developing, and evaluating curriculum-improvement programs.

Prerequisite: EDCUR 610 or 620.

A total of 6 hours of credit may be earned.

799 Internship in Supervision and Curriculum. (4) A field experience under the supervision of the university and an experienced practitioner in the duties and responsibilities of a general supervisor and curriculum specialist. The intern will be assigned full-time to a general supervisor or general curriculum specialist and will participate full-time in the activities of a school system.

Prerequisite: permission of the department chairperson.

EDUCATION: FOUNDATIONS (EDFON)

610 Women, Gender, and Education. (3) Explores some of the major themes in the study of women and education and samples a variety of the methodologies used by historians, sociologists, philosophers, psychologists, anthropologists, and others conducting research in the area.

620 Social, Historical, and Philosophical Foundations of Education. (3) An academic study of the complex relationship between schools and society through the disciplines of sociology, history, and philosophy of education. The goal is to develop disciplines of normative, interpretive, and critical perspectives on education.

Open only to postbaccalaureate licensing students.

621 Education and Ethics. (3) Combines moral theory and applied ethics to consider various questions related to education and classroom practice: respect for student agency; the professional autonomy and responsibility of teachers; the interaction among teachers, students, and administrators; and teachers as agents for social improvement.

Prerequisite: permission of the department chairperson.

Open to all graduate students in good standing.

631 Philosophy of Education. (3) School practices and educational ideas as they have been described and analyzed by philosophers of education.

632 Seminar in the Philosophy of Education. (3) Specific and specialized study of philosophy of education. Conduct specialized scholarly work under the guidance of the professor, encouraging deeper understanding of the theoretical presuppositions of school practices.

Prerequisite: EDFON 631.

641 History of American Education. (3) The history of American educational thought and its influence upon institutional schooling from the Puritans to the present.

642 Seminar in the History of Educational Thought. (3) Interplay between central ideas in education that have stood the test of time and the broader intellectual climate. Conduct specialized scholarly work under the guidance of the professor.
Prerequisite: EDFON 641.

651 Educational Sociology. (3) The effect of the larger American society upon the education of the student; the school as one setting where young persons grow into maturity; the school as a social system; the role of schools in a democratic society.

652 Seminar in Educational Sociology. (3) Specific and specialized study of educational sociology. Conduct specialized scholarly work under the guidance of the professor, encouraging deeper understanding of the dynamic relationships between the institutional school and the larger society.
   Prerequisite: EDFON 651.

660 Comparative Education. (3) Present-day educational systems in selected nations; how they reflect historical, political, economic, and cultural differences.

699 Independent Study in Foundations of Education. (1-3) Independent study and research in the foundations of education (excluding psychological foundations). Topics and activities to be chosen in consultation with an instructor competent in the topic to be studied.
   Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

EDUCATION: HIGHER (EDHI)

600 Introduction to Student Affairs Administration. (3) Foundations of student affairs work, the practical functioning of the programs and services in student affairs, and the relationship of student affairs to the total college or university administration.
   Open only to higher education students, except by permission of the department chairperson.

601 Theories of College Student Development: Higher Education Application. (3) Introduction to the major theories of college student development, application of theoretical approaches to student needs with implications for student affairs administrators.
   Open only to higher education students, except by permission of the department chairperson.

602 The American College Student. (3) Characteristics and activities of contemporary college students, patterns of interaction between students and other segments of the campus and the larger society, and effects of the college experience upon students. Limited to students pursuing programs in higher education, except by permission of the department chairperson.

609 Preparing for the Professoriate: Teaching in Higher Education. (3) Designed for graduate students, junior faculty, adjunct and part-time faculty in pursuit of the knowledge and skills necessary for quality undergraduate teaching. In addition, students will explore the relationship between teaching, research, and service responsibilities inherent in the professoriate.

610 Issues in Higher Education. (3) A critical examination of the American system of higher education including such topics as diversity of purpose, clientele served, nature of institutions, contemporary problems of financing, organization, governance, and administration of colleges, universities, and other institutions.

611 Teaching and Curriculum Issues in Higher Education. (3) Principles, issues, and rationales of curricula in higher education including relationships among general, specialized, and professional programs. A study of the varied responsibilities of faculty members in colleges with particular emphasis on the instructional role including teaching skills and strategies.
   Prerequisite: EDHI 609 or permission of the department chairperson.

613 Administration and Finance in Higher Education. (3) Study of the theories and practices in administration, governance, and financing of colleges and universities in the United States.
   Prerequisite: EDHI 610 or permission of the department chairperson.
640 The Community College. (3) Study of the characteristics and functions of community and junior colleges in American higher education emphasizing role, governance, faculty, curriculum, students, and finance in two-year colleges.

659 Independent Study in Higher Education. (1-3) Exploration of a topic in higher education under the direction of an appropriate faculty member.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

675 Legal Issues in Higher Education. (3) Designed to engage students in an in-depth investigation into current legal issues and their impact on the field of higher education.

690 Seminar in Student Affairs Administration. (1-3) Investigation of selected topics critical to practice in student affairs administration.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

698 Principles and Practices of Student Affairs Administration. (3) Provides for the development of a personal philosophy of student affairs administration through exposure to the various roles assumed by student affairs professionals; through broadened awareness of the several trends, structures, and principles that affect student affairs work; and through the competencies considered essential to successful professional practice. Uses case studies to investigate current practices.

Open only to higher education students, except by permission of the department chairperson.

699 Practicum in Student Affairs Administration. (3) Experience in one branch of student affairs (admissions, career services, dean of students, financial aid, student activities, recreation, minority related areas).

Open only to students in the student personnel program or by permission of the department chairperson.

700 Seminar in Higher Education. (3) A forum for graduate students of advanced standing to critically examine higher education research with a special focus on policy and practice implications.

Open only to doctoral students in adult, higher, and community education and other advanced graduate students.

EDUCATION: JUNIOR HIGH/MIDDLE SCHOOL (EDJHM)

512 Instructional Strategies and Approaches in Junior High and Middle Schools. (3) Circumstances affecting instruction in junior high and middle schools are analyzed. Students are encouraged to be creative and effective in structuring and developing instructional methods, techniques, units, materials, and evaluation procedures appropriate for junior high and middle school students.

534 Classroom Management: Practical Approaches to Improving Student Behavior. (3) Assists secondary teachers in establishing effective systems of classroom management in middle, junior, and senior high school settings. Emphasizes practical skills and procedures for preventing or remedying disruptive behavior by secondary students and ways to create a positive environment for learning.

Not open to students who have credit in EDSEC 434.

585 Principles of Teaching in the Middle School. (3) Combines the theory and practice of teaching at the middle school level. Includes the study of interdisciplinary planning and instructional strategies, cooperative learning, technology, classroom management, and current curricular issues. Intensive in-school assignments, observations, participation, and direct contact with adolescents required.

Prerequisite: permission of the department chairperson.

Parallel: EDSEC 580.

Open only to secondary education students in good standing.

601 Field-Based, In-service Concerns in Junior High/Middle School Education.
A field-based course designed for practicing professionals and scheduled by request for a specified number of credit hours. Provision is made to study such professional concerns in junior high/middle school education as general classroom management, common teaching skills, organization, cultural and ethnic considerations, and interpersonal relationships. The course is not designed to address special problems in content areas.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

676 Research in Junior High/Middle School Education. (3) Investigation, summary, and interpretation of research in junior high/middle school education. Each student will write and submit a research report to fulfill course requirements.

Not open to students who have credit in EDEL 676 or EDSTU 676.

690 Practicum in Junior High/Middle School Education. (1-9) Study and analysis of specific classroom procedures in a school setting as related to a specific education problem offering perspective on the entire educational task of the junior high/middle school. Offered credit/no credit only.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

699 Independent Study in Junior High/Middle School Education. (1-3) Independent study and research in junior high/middle school education. Topics and activities to be chosen in consultation with an instructor competent in the topic to be studied.

Prerequisite: permission of the department chairperson.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

EDUCATION: SECONDARY (EDSEC)

534 Classroom Management: Practical Approaches to Improving Student Behavior. (3) Assists secondary teachers in establishing effective systems of classroom management in middle, junior, and senior high school settings. Emphasizes practical skills and procedures for preventing orremedying disruptive behavior by secondary students and ways to create a positive environment for learning.
Not open to students who have credit in EDSEC 434.

550 Introduction to Secondary Education. (3)
Educational concepts, organizational structures, and current practices in secondary schools are introduced and analyzed. The conceptual framework of the university guides the exploration of curriculum, policy, working conditions, and assessment. Students construct a digital portfolio based on Indiana professional standards. Students also develop habits of reflection, inquiry, and professional judgment.

Not open to students who have credit in EDSEC 150.

560 Student Teaching: Secondary School.
(3-7) Required for the standard license in secondary education. Involves a full-day assignment for ten weeks in an approved secondary school. Offered credit/no credit only.

Prerequisite: admission to student teaching; permission of the department chairperson.
Parallel: EDSEC 465.
A total of 7 hours of credit may be earned.
Open only to secondary education students in good standing.

580 Principles of Teaching in the Secondary School. (3) Combines theory and practice of teaching at the secondary level. Includes the study of instructional strategies, evaluation, curriculum development and organization, learning styles, technology, legal issues, and classroom management. Intensive in-school assignments, observations, participation, and direct contact with adolescents required.

Prerequisite: permission of the department chairperson.
Parallel: EDJHM 585.
Not open to students who have credit in EDSEC 380.
Open only to secondary education students in good standing.

600 Workshop in Secondary Education. (2-6)
New developments in secondary education as they arise or as they become especially significant to practicing secondary school teachers. Although flexible, each workshop will examine a predetermined common area of concern.
A total of 6 hours of credit may be earned.

601 Field-Based, In-service Concerns in Secondary Education. (1-3) A field-based course for practicing professionals, scheduled by request for a specified number of credit hours. Professional concerns in secondary education such as general classroom management, common teaching skills, organization, cultural and ethnic considerations, and interpersonal relationships. The course is not designed to address special problems in content areas.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

689 Seminar in Contemporary Education Issues. (3-6) Group or individual investigation of various problems in secondary education.
A total of 6 hours of credit may be earned.

690 Practicum in Secondary Education. (1-9)
Study and analysis of specific classroom procedures in a school setting as they relate to a specific educational problem and as they provide perspective on the entire educational task of the secondary school. Offered credit/no credit only.

Prerequisite: permission of the department chairperson.
A total of 9 hours of credit may be earned.

695 Dynamics of the Secondary School Classroom. (3) Designed to promote knowledge and skill in diagnosing instructional group structures, solving urgent problems of educational practice, and developing guidance and leadership proficiency in the classroom.

699 Independent Study in Secondary Education. (1-3) Independent study and research in secondary education. Topics and activities to be chosen in consultation with an instructor competent in the topic to be studied.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

EDUCATION: STUDIES (EDSTU)

650 Introduction to Qualitative Research. (3) Overview of qualitative research methods from ethnography to hermeneutics.

660 Ethnographic Research in Education. (3) Principles and techniques for collecting important and accurate data using methods that are systematic, intelligent, and dependable when the data or group composition do not meet the assumptions on which statistics are based.

671 Evaluation of Educational Programs. (3) Experience in conducting a program evaluation. Students will examine different theoretical models of evaluation and will evaluate an educational program by constructing and administering instruments, analyzing the data gathered, determining the worth of the program, writing an evaluation report, and presenting the report to the personnel of the program evaluated.

676 Research on Impacting Student Learning. (3) Investigation, summary, and interpretation of research conducted to measure impact on P-12 student learning. Each student will write and submit a research report. Not open to students who have credit in EDEL 676 or EDJHM 676.

680 Staff Development to Strengthen Curriculum. (3) Study of the theories, practices, and research on staff development. Students will design, conduct, and evaluate a staff development program with three or more adults working in teaching/learning situations.

697 The Grant Process and Research. (3) A background for reading and writing research and related grant proposals and final reports of the type encountered by practitioners in adult education, community education, curriculum, executive development, gerontology, and related subjects. Includes information and practice in reading and evaluating research proposals and reports, finding potential sources of grant support, reading and interpreting grant program guidelines, and writing a grant or research proposal in one of the academic pursuits listed here. Individual and group instructional procedures will be used.

735 Analysis and Application of Research on Teaching. (3) Theories of teaching and application of research about teaching to classroom functions of teachers as they study and guide learning processes.

770 Advanced Evaluation of Educational Programs. (3) Systematic methods for collecting data descriptive of outcomes of school programs and for assigning value to the data. Emphasizes theory and design of program evaluation, criteria for determining quality in instrumentation of program evaluation, preparing program-evaluation reports, the politics of program evaluation, and fieldwork directly in a program-evaluation project. Prerequisite: EDSTU 671; EDPSY 640 or 646 or the equivalent.

EDUCATION: SUPERVISION (EDSUP)

650 Supervision of Instruction. (3) Analyzes supervisory functions of the superintendent, supervisor, and principal. Lays the philosophical basis for supervision at all levels of the school system from early childhood through secondary education.

EDUCATION: TECHNOLOGY (EDTEC)

585 School Information Infrastructures. (3) Explores the core technologies and models for school information infrastructures and networks for K-12 and teacher education contexts. Examines hard-ware and software solutions for designing computing labs and digital media studios for K-12 teachers and students. Introduces basic local area network technologies and Web-based models relevant to educational contexts. Prerequisite: EDTEC 650 or permission of the department chairperson. Not open to students who have credit in EDTEC 485.
650 (550) Curricular Integration of Learning Technology. (3) Emphasizes the theory, design, and integration of digital media and educational computing into K-12 curricula. Students develop instructional units that integrate national and state educational technology and curriculum standards.


Not open to students who have credit in EDTEC 352.

655 Inquiry and Simulation Models in Educational Computing. (3) Emphasizes the theory, design, and curricular integration of data-driven computer applications for inquiry, simulation, and problem-solving. Explores construction of databases, simulations, and similar interactive applications for teaching and learning.

Prerequisite: EDTEC 650 or permission of the department chairperson.

Not open to students who have credit in EDTEC 355.

660 Instructional Design and Technology. (3) Explores practical and experimental applications of interactive computing for teaching and learning. Introduces principles and models of instructional design. Designs and develops educational projects based on an instructional design model.

665 Visual and Digital Literacies. (3) Examines the relationships of visual and digital literacy theories to instruction and learning in both formal and informal contexts. Students construct texts in the non-traditional forms, such as digital video, concept mapping, and podcasting. Critically examines alternative literacies or social contexts for learner engagement and empowerment via digital media.

670 Technology Policy and Pedagogy. (3) Examines the social, ethical, legal, and human issues surrounding the use of technology in PK-12 schools and the policies that affect how technology is realized in schools and their surrounding communities. Addresses the leadership roles necessary for developing enabling conditions for technology integration.

675 Distance Education and Distributed Learning Technology. (3) Examines the historical, theoretical, technological foundations of distance and flexible education. Students investigate the changing landscape of distance education as well as the increased educational and instructional opportunities for learners and teachers. Students develop instructional plans for teaching at a distance and policy recommendations for implementing distance education programs.

680 Advanced Projects in Digital Media. (3) Emphasizes experience with the design and production of high-end interactive multimedia applications for education. Explores emergent digital technologies.

Prerequisite: EDTEC 660 or permission of the department chairperson.

Not open to students who have credit in EDTEC 480.

685 Information Systems for Instruction and Assessment. (3) Examines use and integration of information systems in K-12 and higher education settings. Explores instructional and administrative technologies for assessment, curriculum management, and student information. Examines strategies for using such technologies for evidence-based curricular improvement. Defines leadership responsibilities in planning, deployment, and professional development.

Prerequisite: EDTEC 670 or permission of the department chairperson.

690 Practicum in Educational Technology. (2-4) Application of technology in classroom or schools with supervision involving professors, classroom teachers, and administrators as instructional mentors. Topics to be chosen in agreement with professor and teacher.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 4 in any one semester or term.

699 Independent Study in Educational Technology. (1-4) Independent study in educational technology. Topic to be chosen in consultation with instructor.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned, but no more than 4 in any one semester or term.

770 Research and Evaluation in Educational Technology. (3) Research seminar on educational technology. Explores literature on emergent topics in educational technology. Students conduct empirical research on a theory-driven innovation and evaluate it in teaching and learning contexts.
Prerequisite: permission of the department chairperson.

790 Internship in Educational Technology. (3-5) Supervised professional internship in K-12, higher education, government, or corporate setting.
Prerequisite: doctoral standing; permission of the department chairperson.
A total of 7 hours of credit may be earned, but no more than 5 in any one semester or term.

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**ELEMENTARY EDUCATION**

[www.bsu.edu/elementaryeducation](http://www.bsu.edu/elementaryeducation)
Teachers College 216, 765-285-8560

The Department of Elementary Education offers a variety of graduate programs to help educators and other professionals concerned with the education of children from birth through elementary school achieve their educational goals. In addition, the department offers programs in reading that extend through adulthood. The faculty work closely with professionals in the field. Online courses are developed and taught by full-time faculty members, accommodating schedules of the busy professional. Special in-service programs are designed to meet staff development requests in addition to a carefully designed sequence of graduate classes.

Within the guidelines of the graduate programs there is ample flexibility to meet student interests and needs. The master’s and doctoral programs have been designed to help professionals accomplish their personal career and professional goals.

Some post-graduate licensing opportunities are also available.

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**PROGRAMS**

Master of arts in education (MAE) in elementary education, and professionalization of teaching licenses and endorsements. Reading teacher certification is available as well. Other programs include doctor of education (EdD) in elementary education and doctor of philosophy (PhD) in elementary education and a transition-to-teaching program. Certificates in early childhood administration, enhanced teaching practice for elementary teachers, literacy instruction, and response to intervention.

Master of Arts in Education Programs

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School.

**MASTER OF ARTS IN EDUCATION IN ELEMENTARY EDUCATION**

**Degree requirements**
Required courses
EDEL  600  Bas Concp El (3)
or 640  Early Childh (3) 3
644  Educ Div Soc 3
EDRDG  610  El Sch Readg (3)
or 615  Erly Lit Dev (3) 3

Professional education core
Three courses including
EDEL  676  Res Elem Edu (3) 9

Focus area
Three courses approved by advisor 9

Directed electives 3

30 hrs

DOCTOR OF EDUCATION IN ELEMENTARY EDUCATION

Aids the candidate in developing skills and knowledge in curriculum, evaluation, re-search, and teaching methodology. Educational experiences are provided through course work and fellowship assignments. Programs are individualized to meet the specific goals of students.

Admission requirements

Applicants must meet the admission requirements of the Graduate School. An applicant must also hold a master’s degree from an accredited college or university with a grade-point average (GPA) of at least 3.2 on a scale of 4.0; have achieved acceptable scores on the Graduate Record Examination (GRE); submit an autobiography, philosophy of education, and five references; have two or more years of successful teaching or appropriate professional experience; and be recommended by the Advanced Graduate Studies Committee of the Department of Elementary Education.

Degree requirements

General guidelines include a minimum of 90 hours of graduate credit, at least 48 of which ordinarily will be completed at Ball State University. The program also requires a major of 40 hours, including 10 hours for the dissertation; cognate fields of either two 15-hour (minimum) cognates or one 24-hour (minimum) cognate. The 15-hour cognates must include a minimum of 9 hours of Ball State University credit; the 24-hour cognate must include a minimum of 12 hours of Ball State University credit; and two consecutive semesters of residency, (15 hours within one calendar year) which are expected to begin within two years of acceptance to the program.

Teachers College requirements
EDPSY  641  Statist Meth 3
642  Interim Stat 3
ID  705  Resrch Collq (1-3) 2
(or another approved course)

Humanistic studies
One course from
EDFON  631  Philosphy Ed (3)
641  Hist Amer Ed (3)
651  Ed Sociology (3) 3

Behavioral studies
One course from
EDPSY  600  Adv Ed Psy (3)
603  Human Devel (3)
627  Child Devel (3) 3

Area of specialization
(Elementary, Early Childhood, Reading), 40 hours 40

Doctoral seminar (2 semesters)
EDEL  798  Seminar ElEd (2)
or 799  Sem Erly Chd (2)
or
EDRDG  700  Seminar (2) 4
Designated to meet the needs of advanced graduate students who seek leadership roles in education and are dedicated to advancing the profession through their advanced research skills, teaching, and service. The program includes an intensive, in-depth study of education and various professional experiences through fellowship assignments.

Admission requirements

Applicants must meet the admission requirements of the Graduate School. An applicant must also hold a master’s degree from an accredited college or university with a grade-point average (GPA) of at least 3.2 on a scale of 4.0; have achieved acceptable scores on the Graduate Record Examination (GRE); submit an autobiography, philosophy of education, and five references; have two or more years of successful teaching or appropriate professional experience; and be recommended by the Advanced Graduate Studies Committee of the Department of Elementary Education.

Degree requirements

General guidelines include a minimum of 90 hours of graduate credit, at least 48 of which ordinarily will be completed at Ball State University. The program also requires a major of 40 hours, including 10 hours for the dissertation; cognate fields of either two 15-hour (minimum) cognates or one 24-hour (minimum) cognate. The 15-hour cognates must include a minimum of 9 hours of Ball State University credit, and the 24-hour cognate must include a minimum of 12 hours of Ball State University credit; research competence of 12 to 15 hours of graduate credit in one of the following: foreign language, statistical methods, computer science, or research techniques; and two consecutive semesters of residence (15 hours within one academic year), which are expected to begin within two years of acceptance to the program.

Teachers College requirements

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Behavioral studies

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Area of specialization

(Elementary, Early Childhood, Reading), 40 hours

Doctoral seminar (2 semesters)

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Research cognate 15-24 hours

CERTIFICATE IN EARLY CHILDHOOD ADMINISTRATION

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### CERTIFICATE IN ENHANCED TEACHING PRACTICE FOR ELEMENTARY TEACHERS

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**15 hrs**

### CERTIFICATE IN LITERACY INSTRUCTION

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**15 hrs**

### CERTIFICATE IN RESPONSE TO INTERVENTION

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Select two courses from one of the sequences listed below

### Behavior (SPCED)

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**15 hrs**

### Reading (ELED)

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or

six credit hours of discipline specific course work (with permission).

**15 hrs**

### TRANSITION TO TEACHING

24-hour program will allow individuals who have an undergraduate degree in another field to become eligible to teach in an elementary school.

### Admission requirements

The candidates will have to meet the following requirements:

a. 3.0 grade-point average (GPA), based on a 4.0 scale; or 2.5 GPA, based on a 4.0 scale with 5 years experience in a related field;

b. passing scores on all parts of the Praxis I at state minimum levels posted at Ball State University;

c. meet criteria on an on-demand writing sample;

d. meet criteria for interview with an interview team;

e. provide three names of references;

f. submit state-approved criminal background check; and

g. submit a letter of application with a resume and transcripts.

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**24 hrs**
EDUCATION: ELEMENTARY (EDEL)

600 Basic Concepts in Elementary Education. (3) Examination of current concepts essential for successful teaching and learning in an elementary classroom. Focus will provide a foundation of knowledge to be extended in future graduate work.

601 Professional Principles and Framework for Elementary Educators. (3) Introduction to the framework of knowledge necessary for teaching in today’s schools. Development of educational principles for effective teaching and learning. 
Open only to teaching in elementary education candidates.

626 Discipline and Classroom Management: Some Practical Approaches. (3) Practical ways for experienced elementary school teachers to create and maintain effective learning environments. Emphasizes approaches to prevention and remediation of disruptive classroom behavior.

630 School, Family, and Community Partnerships. (3) Benefits, challenges, and principles of family involvement in early childhood settings and elementary schools with an emphasis on the diversity of contemporary families. The significance of genuine partnerships between the home, school, and community as a foundation for optimal educational development of young children and program improvement.

640 Early Childhood Education. (3) Needs and interests of early childhood—preschool, kindergarten, and primary—as a basis for a critical evaluation of present practices in this field.

641 Early Childhood Program Leadership. (3) The various organizational patterns and operational procedures of schools and centers for young children.

644 Education in a Diverse Society. (3) A broad understanding of social, economic, cultural, and linguistic diversity, with emphasis on how teachers and schools can respond to issues that arise as our society becomes more diverse.

645 (745) Advocacy and Policy in Childhood Education. (3) Examines professional responsibility in the field of early childhood education, considering issues such as ethics, equity, standards, assessment, accreditation, the preparation of early childhood educators, and advocacy.

648 Play and Creativity in Early Childhood. (3) The role of play and creative experiences in the development and learning of young children. Addresses the philosophy, techniques, and problems of providing creative and play experiences for young children.

649 Infant and Toddler Education. (3) Educational environments appropriate for and supportive of infants and toddlers; affective and cognitive factors affecting educational processes. Opportunity to observe and participate in an educational program for infants and toddlers.

651 Educational Programs for Young Children. (3) Considers historical and current program models in early childhood education, as well as current theory and practice in early childhood curricular content areas. Related research and issues are examined and discussed. Prerequisite: EDEL 640.

655 Principles of Differentiation in the Elementary Classroom. (3) Examines the major components of elementary school curriculum including content standards, learning strategies, materials, and assessment. Also focuses on how to meet the needs of all students through a differentiated curriculum.

657 Development, Implementation, and Evaluation of Programs for the Gifted/Talented. (3) Competencies necessary for the elementary teacher to develop and implement programs for gifted and talented students. Emphasizes processes, techniques, materials, resources, and models appropriate for enhancing
educational experiences for gifted and talented elementary students.

Prerequisite: EDPSY 621.

660 The Effective Use of Technology in the Elementary School. (3) Theoretical understanding and personal skills needed to use technology effectively in the elementary school classroom. General role of technology in education and specific applications to particular uses within the classroom as well as strategies for evaluating resources.

676 Research in Elementary Education. (3) Investigation, summary, and interpretation of research in elementary education. Requires each student to write and submit a research report. Must be taken within the last 9 hours of the student’s program.

Not open to students who have credit in EDSTU 676 or EDJHM 676.

680 Advanced Teaching Methods in Language Arts. (3) This course provides an understanding of the relationship of listening, speaking, reading, and writing. Identification of instructional challenges in each of these areas and explorations of possible solutions can lead to a more integrated language arts program.

690 Practicum in Elementary Education. (1-8) Study and analysis of schoolroom procedures used in different schools. Offered on a credit/no credit basis.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned.

694 Internship in Elementary Education. (1-3) Field experience in selected elementary education programs or educational agencies. Offered on a credit/no credit basis.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned.

698 Seminar in Elementary Education. (1-12) Graduate students will consider group and individual investigations in elementary education.

A total of 12 hours of credit may be earned.

699 Independent Study: Elementary Education. (1-8) Independent study and research in elementary education.

Prerequisite: sponsoring instructor and permission of the department chairperson.

A total of 8 hours of credit may be earned.

740 Recent Research in the Education of Young Children. (3) Significant research in early childhood education; application of the results of selected research studies to program development and teaching procedures. Students will identify areas in which research is needed.

Open to doctoral-level students and other graduate students by permission of the department chairperson.

791 Seminar in Research in Elementary Education. (3) Study and analysis of re-search in elementary education for students in advanced graduate programs. Historical and current investigations, evaluation, implications, and implementation in addition to an attempt to define questions needing further research.

Prerequisite: EDEL 676 or permission of the department chairperson.

792 Issues in Elementary Education. (3) Major trends and issues in elementary education for students in advanced graduate programs. Emphasizes analysis and evaluation of applicability of current research data.

Prerequisite: EDEL 791 or permission of the department chairperson.

798 Seminar in Elementary Education. (2) Doctoral candidates will consider group and individual investigations in elementary education.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

Open only to doctoral candidates in elementary education.

799 Seminar in Early Childhood Education. (2) Seminar for doctoral candidates who will study, by means of group and individual in-depth investigation and critical discussion,
current literature on issues, problems, and research related to early childhood education.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

EDUCATION: READING (EDRDG)

500 The Teaching of Literacy in the Elementary School. (3) Designed to teach the current thinking, approaches, and methodology of literacy instruction in the elementary school.

Prerequisite: permission of the department chairperson.

501 The Teaching of Literacy in the Integrated Curriculum. (3) Designed to teach the current thinking, approaches, and methodology of literacy instruction in the integrated curriculum.

Prerequisite: EDRDG 500; permission of the department chairperson.

545 Using Technology in Reading. (3) Candidates will explore many different possibilities for integrating cutting-edge technology into the literacy program and explore how technology affects the development of literacy strategies and skills.

Prerequisite: EDRDG 400, 430; or approval of the director of reading or the department chairperson.

Not open to students who have credit in EDRDG 445.

610 The Teaching of Reading in the Elementary School. (3) Appraisal of the elementary school reading program in terms of principles, practices, and problems involved in the instructional program. (This requirement may be waived by the director of reading for students with an undergraduate minor in reading.)

615 Early Literacy Development. (3) Develop an understanding of early literacy development through early primary years. Explanation of theories and practical application to foster young children’s reading and writing development.

620 Content Area Reading. (3) Procedures for developing effective reading skills to be applied by teachers. Focuses on the relationship between the processes of literacy and the methods to enhance content area reading in order to meet the total range of student literacy needs.

627 Teaching Literacy to Diverse Learners. (3) Addresses issues of literacy instruction for children with diverse backgrounds, including language, race, class, gender, ethnicity, and exceptionality.

630 Psychological Foundations of Reading. (3) Psychological basis of the reading process. Emphasizes psychological, cognitive, and psycholinguistic principles that underlie the reading process.

Prerequisite: EDRDG 610, 615, or 620.

640 Issues in the Teaching of Reading. (3) Current approaches and recent trends in the teaching of reading (K-12). Emphasizes present practices in reading and implications of research in reading.

645 History of Reading. (3) Develop an understanding of the historical aspects of a number of trends and issues in the field of literacy education. Examine how scholars have contributed to our understanding of the reading process and how it affects classroom practices.

650 The Organization and Supervision of a School Reading Program. (3) Covers recent trends for the administration of a reading program. For principals, supervisors, consultants, and reading specialists.

680 Classroom Reading Diagnosis. (3) Provides the knowledge and skills necessary to diagnose children’s reading and to develop, plan, and organize a reading program based on diagnostic evidence.

Prerequisite: EDRDG 610, 615, or 620.

690 Reading Practicum. (3) Supervised experience in teaching persons with reading disabilities in a clinical setting. Emphasizes the use of specialized techniques and materials.
selected and designed in the light of extensive diagnostic information.

Prerequisite: EDRDG 680.

692 Clinical Diagnosis of Reading Difficulties. (3) The psychology of reading difficulties, individual diagnostic techniques, and the planning of reading programs for severely disabled readers in a clinical setting.

Prerequisite: EDRDG 450 or 690 or permission of the director of reading.

698 Independent Study in Reading. (1-9) Individual study of specific topics in reading education. Group and individual investigations are included.

A total of 9 hours of credit may be earned.

700 Seminar in Reading. (2) Selected topics in reading education. Builds on extensive background in reading, research, and theory.

Prerequisite: 8 semester hours of credit in graduate reading courses or permission of the director of reading.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

701 Advanced Study in Reading. (3) The application of basic research findings to the reading process and the teaching of reading.

Prerequisite: 6 graduate hours of credit in reading.

770 Study of Reading Research. (4) Emphasizes types of research that have contributed to greater understanding of the reading process.

Prerequisite: EDRDG 610, 640; EDPSY 640 or permission of the director of reading.

799 Internship in Reading. (2-6) A field assignment with opportunities to direct, coordinate, and supervise a reading program in a selected educational setting, with joint supervision by the university and an experienced director or coordinator of reading.

A total of 6 hours of credit may be earned.

SPECIAL EDUCATION

www bsu edu/spced
Teachers College 722, 765-285-5700

The Department of Special Education offers programs designed to increase students’ understanding of the personal, psychological, social, educational, and vocational needs of persons with disabilities and strengthen their assessment, teaching/intervention skills, and research competency.

Students are offered advanced study and research opportunities through fieldwork; internships; the TEACH Lab, which provides hands-on adaptive technology opportunities for our students. The department is also co-sponsor of the Psychoeducational Diagnostic and Intervention Clinic, which provides diagnostic services for people with disabilities. Areas of study include mild and severe/intense interventions, deaf education, early childhood special education, vision impairment, autism, and special education administration. In addition to the masters and doctoral degrees, the department also offers graduate certificate programs in autism, applied behavior analysis (ABA) and response to intervention. The ABA certificate partially meets the requirements for becoming a Board Certified Behavior Analyst.

PROGRAMS

Master of arts (MA) in applied behavior analysis (offered on-line delivery). Master of arts (MA) in special education; master of arts in education (MAE) in special education; and doctor of education (EdD) in special education in one or more of the categories of special education.
Certification programs for graduate-level students are also available.

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School. An applicant must also have an overall grade-point average (GPA) of at least 2.75 on a scale of 4.0 in undergraduate work if applying for graduate assistantships and receive a positive recommendation from the department’s advanced studies committee.

**MASTER OF ARTS IN SPECIAL EDUCATION**

Includes the following specializations: deaf education, emotional/behavior disorders, mild interventions, severe disabilities, early childhood special education, general special education, special education administration (Director of Exceptional Needs/Special Education), and visual impairments. Completion of one or more of these specializations may qualify students for employment as master teachers in such situations as resource rooms, self-contained classrooms, and local, state, and private agencies or residential schools serving children, youths, and adults with disabilities. Graduates are also prepared to serve as consultants in inclusionary settings.

Generally, special education undergraduate majors select this master’s degree program option either to strengthen their bachelor’s degree preparation or to acquire another area of special education licensure.

**Degree requirements**

The MA requires completion of at least 30 hours of graduate course work. A minimum of 15 hours must be completed in the major area of study, supplemented by a research course and 9 hours of designated courses in a second area of special education. Typically, students will follow a plan of study prescribed by special education licensure standards.

**MASTER OF ARTS IN EDUCATION IN SPECIAL EDUCATION**

Includes the following areas of study: deaf education, emotional/behavior disorders, severe disabilities, mild interventions, early childhood special education, general special education, and visual impairments. Completion of one or more of these specializations may qualify students for employment as master teachers in such situations as resource rooms, self-contained classrooms, and local, state, and private agencies or residential schools serving children, youths, and adults with disabilities. Graduates are also prepared to serve as consultants in inclusionary settings.

This option generally is selected by students who have earned bachelor’s degrees in elementary or secondary education. The MAE degree is also offered by distance education.

**Degree requirements**

The MAE requires completion of at least 30 hours of graduate course work. A minimum of 15 hours must be completed in the major, supplemented by a research course and at least three courses from the professional education core. Typically, students will follow a plan of study as prescribed by special education licensure standards.

**DOCTOR OF EDUCATION IN SPECIAL EDUCATION**

Designed to meet the needs of advanced graduate students seeking to assume leadership roles in special education in one or more of the following positions: school leadership, administration; consultation; or in higher education as a teacher educator, special education manager, curriculum specialist, and researcher/evaluator. Upon successfully completing the program, the candidate will hold a doctor of education degree in special education.

**Admission requirements**

Applicants must meet the admission requirements of the Graduate School. An applicant must also hold a master's degree from an accredited institution, have two years of successful appropriate professional experience,
have a grade-point average (GPA) of at least 3.2 on a scale of 4.0 at the master's level, achieve acceptable composite scores on the Graduate Record Examination (GRE) general test, and be recommended by the department's advanced studies committee.

**Degree requirements**

The doctoral degree with a major in special education requires a minimum of 90 hours of graduate credit, 48 of which must be completed at Ball State University. The program consists of several basic required courses as well as a major of at least 40 hours, most of which must be completed at Ball State University. Two 15-hour cognates (minimum) or one 24-hour cognate (minimum) will be selected by doctoral students in consultation with their committee chairpersons to complement career and research interests. Nine hours of each 15-hour cognate or 12 hours of the 24-hour cognate must be completed at Ball State University.

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Cognate area (one area for 24 hours or two areas for 15 hours each) 24-30

Special education Strand courses 9

(Previous graduate work in special education may total 27 hours maximum.) Another SPCED 700-level seminar may be substituted for SPCED 764. A minimum of 40 hours must be in the major area; a minimum of 90 total hours required. SPCED 636 Research in Special Education or graduate level introduction statistics class is a prerequisite for admission to do doctoral work in special education.

**Policy and Administration**

The Policy and Administration strand focuses on candidates interested in policy areas related to disability public policy and laws and those interested in the administration and management of program services in special education. Candidates are immersed in laws and policies that shape disability services and organizational behavior theories and principles that are applied to the administration of service delivery systems geared toward programs for persons with disabilities. Many candidates choose to complete a cognate in the area of educational leadership and work to add the director of exceptional needs to their current IDOE professional education license.

**Required courses**

| SPCED | 637 | Or Adm Sp Ed  | 3 |
|       | 639 | SpEd Org Ad   | 3 |

**Directed elective requirements**

| SPCED | 706 | Sem Int Inv (3) |
|       | 707 | Sem Mild Inv (3) |
|       | 709 | Beh Excp Per (3) |

SPCED 709 is the preferred seminar course.

3 hours from one of the following areas:

**Policy**

| SPCED | 677 | Prnt Exp Chl (3) |
|       | 687 | Assmt Mild (3)   |

**Administration**

| SPCED | 624 | Voc Prep (3) |
|       | 636 | Res Spec Ed (3) |
|       | 694 | Internship (3-9) |

365
Applied Behavior Analysis (ABA) and Autism

The ABA and Autism strand focuses on principles and theories related to applied behavior analysis and their applications with persons with autism. Principles of behavior, behavior consultation techniques, and treatment/intervention strategies are core concepts and skills explored. Candidates have the opportunity to earn certifications in ABA and Autism from Ball State University as well as working toward becoming National Board Certified in ABA as program options.

Required courses
SPCED 609 Intro ABA 3
610 Beh Consult 3

Directed elective requirements
SPCED 706 Sem Int Inv (3)
or
707 Sem Mild Inv (3)
or
709 Beh Excp Per (3) 3
SPCED 709 is the preferred seminar course.

3 hours from one of the following areas:
ABA
SPCED 611 Adv ABA (3)
or
660 Seminar (3) 3

Autism
SPCED 680 Intro Autism (3)
or
682 Treat Autism (3) 3

Low Incidence: Teaching and Learning

The Low Incidence strand focuses on specific strategies and instructional approaches that are evidence-based related to teaching and learning for persons with severe and moderate disabilities. Principles of behavior, communication (including alternative and augmentative systems), accommodations, and treatment/intervention strategies used with individuals with severe and moderate disabilities are key concepts and skills presented. Candidates have the opportunity to expand their teaching repertoire as they work with students with low incidence in special education settings. Teacher education preparation is also a focus on the program.

Required courses
SPCED 577 Int In Intrv 3
578 Meth Intense 3

Directed elective requirements
SPCED 706 Sem Int Inv (3)
or
709 Beh Excp Per (3) 3
SPCED 706 is the preferred seminar course.

3 hours from one of the following areas:
Severe
SPCED 609 Intro ABA (3)
or
631 Comp Sp Nds (3) 3

Autism
SPCED 680 Intro Autism (3)
or
682 Treat Autism (3) 3

High Incidence: Teaching and Learning

The High Incidence strand focuses on specific strategies and instructional approaches that are evidence-based related to teaching and learning for persons with high incidence disabilities. Principles of assessment, instructional methods, accommodations, and intervention strategies used with individuals with mild disabilities are key concepts and skills presented. Candidates have the opportunity to expand their teaching repertoire as they work with students with high incidence in special education settings. Teacher education preparation is also a focus on the program.

Required courses
SPCED 686 Intro Mild 3
687 Assmt Mild 3

Directed elective requirements
SPCED 603 Collab Spc Ed (3)
or
631 Comp Sp Nds (3)
or
688 Meth Mild In (3)
or
707 Sem Mild Inv (3)
or
709 Beh Excp Per (3) 3

SPCED 707 is the preferred seminar course.

Special Education General

The Special Education General strand remains the same as our current Doctor of Education in Special Education offering.

Required courses
SPCED 600 Except Child  3
636 Res Spec Ed  3

Directed elective requirements
SPCED 706 Sem Int Inv (3)
or
707 Sem Mild Inv (3)
or
709 Beh Excp Per (3) 3

SPCED 707 is the preferred seminar course. SPCED 500-600 level (3).
Open SPCED program elective.

CERTIFICATE IN APPLIED BEHAVIOR ANALYSIS

PREFIX NO  SHORT TITLE  CR HRS
SPCED 609 Intro A B A  3
610 Beh Consult  3
611 Adv A B A  3
638 Prac A B A (1-9)  3
660 Seminar (3-9)  3

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15 hrs

CERTIFICATE PROGRAM IN AUTISM

PREFIX NO  SHORT TITLE  CR HRS
SPCED 609 Intro A B A  3
611 Adv A B A  3
680 Intro Autism  3
682 Treat Autism  3
683 Autism Prac (1-6)  3

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15 hrs

CERTIFICATE IN RESPONSE TO INTERVENTION

PREFIX NO  SHORT TITLE  CR HRS
EDEL 655 Prin of Diff  3
SPCED 606 RTI Seminar  3
607 RTI Tracking  3

Select two courses from one of the sequences listed below

Behavior (SPCED)
SPCED 609 Intro A B A  3
610 Beh Consult  3

Reading (ELED)
EDRDG 690 RDG Practicm  3
692 Clin Diagnos  3

or
six credit hours of discipline specific course work
(with permission).

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15 hrs

SIGN LANGUAGE (SNLNG)

551 American Sign Language 1. (3)
Introduction to sign language systems including finger spelling and American Sign Language (ASL). Development of receptive and expressive skills in sign language is emphasized.

552 American Sign Language 2. (3) Designed to improve conversational skills in American Sign Language to a functional level for expressive and receptive use in educational and other settings. Introduction to issues related to deaf culture.

Prerequisite: SNLNG 251 or 551; permission of the department chairperson.

Not open to students who have credit in SNLNG 252.

553 American Sign Language 3. (3)
Emphasizes the development of conversational
skills in American Sign Language. Stress is placed on vocabulary building and interpretation of culturally related cues.

Prerequisite: SNLNG 252 or 552; permission of the department chairperson.

Not open to students who have credit in SNLNG 253.

554 American Sign Language 4. (3) Advanced development of American Sign Language fluency in occupational and professional settings. Special emphasis is placed on sign dialects and related deaf-cultural issues.

Prerequisite: SNLNG 253 or 553; permission of the department chairperson.

Not open to students who have credit in SNLNG 254.

SPECIAL EDUCATION (SPCED)

540 History of Education of Deaf Students and Psychology of Deafness. (3) Analysis and discussion of the historical, geographical, cultural, educational, and economic forces affecting deaf people and patterns of social change and oppression during the nineteenth and twentieth centuries. Introduces specific cultural and historical experiences and literature in the field.

Not open to students who have credit in SPCED 240.

546 Teaching Strategies for Speech/Social Communication for Deaf Students. (3) Various methods of teaching communication skills used by deaf/hard-of-hearing students. Emphasis on oral, facial, and body language for social communication. Developing instructional objectives and individual education plans related to social communication will be included.

Prerequisite: SPCED 540 or permission of the department chairperson.

Not open to students who have credit in SPCED 246.

548 Practicum in Deaf Education. (3) Includes experience with deaf/hard-of-hearing students from various age ranges. Participants will practice the planning, writing, and implementation of relevant instructional objectives.

Prerequisite: SPCED 546 or permission of the department chairperson.

Not open to students who have credit in SPCED 248.

554 Introduction to Language for Deaf/Hard-of-Hearing Students. (3) Philosophy underlying various methods of language teaching will be reviewed. Students will compare and contrast various communication strategies. Topics included are interactive language, written language, and reading.

Prerequisite: SPCED 540.

Not open to students who have credit in SPCED 454.

556 Language Methods for Deaf/Hard-of-Hearing Students. (3) In-depth view of various methods of teaching language to deaf/hard-of-hearing students, including bilingual approaches. Emphasizes the forming of taxonomies through analysis of language samples. Includes writing instructional objectives in the language areas of form and content.

Prerequisite: SPCED 554.

Not open to students who have credit in SPCED 456.

558 Teaching Reading and School Subjects to Deaf/Hard-of-Hearing Students. (3) Explores methods of teaching reading with deaf/hard-of-hearing students. Reading assessment for deaf children will be reviewed as well as reading in other school subjects. Writing instructional objectives and individual education plans will be included.

Prerequisite: SPCED 556.

Not open to students who have credit in SPCED 458.

566 Introduction to Students with Orthopedic, Sensory and Multiple Disabilities. (3) For educators and therapeutic service providers who will work with students with physical/orthopedic, sensory, health, and multiple impairments. Etiology, characteristics, and educational implications are addressed within a transdisciplinary, collaborative team approach.

Prerequisite: SPCED 600 or equivalent.
Not open to students who have credit in SPCED 366.

575 Trends and Issues in Special Education. (3) Explores best practices and issues in classroom planning, management, and instructional strategies for adolescents through young adults with exceptional needs. 
Prerequisite: SPCED 600 or equivalent; permission of the department chairperson.

577 Introduction to Students with Intense Intervention Needs. (3) For teachers of students with moderate, severe, and profound intellectual impairment as well as those with significant multiple impairments. Introduces concepts of functional curriculum, systematic instruction, data-driven decision making, and positive behavior supports within a transdisciplinary team model.
Prerequisite: SPCED 600 or equivalent. Not open to students who have credit in SPCED 377.

578 Educational Methods for Students with Intense Intervention Needs. (3) Evidence based practices for assessment and intervention methods among students with moderate, severe, and profound intellectual impairment as well as those with significant multiple impairments. Development and application of systematic instruction, augmentative and alternative communication, and positive behavior support plans are emphasized.
Prerequisite: SPCED 577.
Not open to students who have credit in SPCED 378.

579 Educational Methods for Students with Orthopedic-Sensory-Multiple Disabilities. (3) Evidence based practices for curricular adaptations; implementation of assistive technology and augmentative and alternative communication; and literacy assessment and instruction for students with orthopedic, sensory, health, and multiple impairments. Development and application of academic instruction is emphasized.
Prerequisite: SPCED 566.
Not open to students who have credit in SPCED 379.

580 Educating High School Students with Intense Intervention Needs. (3) Evidence based practices in assessment, intervention, and monitoring for adolescents and young adults with intense intervention needs. Topics include laws concerning transition, career planning, vocational rehabilitation resources, job training, and employment outcomes within a transdisciplinary team model.
Prerequisite: SPCED 600 or equivalent. Not open to students who have credit in SPCED 380.

600 Education of Exceptional Children. (3) The basic course in the graduate sequence for teachers who wish to specialize in any one of the branches of special education. Stresses findings concerning the unique psychological and educational problems of exceptional children.

603 Collaboration in Special Education. (3) Roles and competencies of special education personnel as they function in collaborative planning, implementation, and improvement of instruction for the various areas of special education.

605 Independent Study. (1-6) Designed to meet the needs of students who wish to conduct independent study and research in special education.
Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

606 Response to Intervention: Seminar. (3) Provides the framework for the implementation of RTI. The components of RTI implementation and the role of school personnel in that change will be investigated. Course will assist school personnel in developing answers to key questions facing educators who are attempting to implement RTI within their respective districts.
process of data based decision making and guide students in the models and levels of RTI.

608 Inservice Workshop. (1-12) For inservice teachers and administrators who wish to work on special learning problems in their own schools.

Prerequisite: permission of the department chairperson.

A total of 12 hours of credit may be earned.

609 Introduction to Applied Behavior Analysis. (3) Introduces behavioral principles and their applications in schools, developmental centers, and other human service settings. Includes functional behavioral assessments; selecting, defining, measuring, and graphing behavior; developing ethical behavioral intervention plans; implementing and assuring the fidelity of behavioral-change procedures; and evaluating behavioral outcomes for maintenance, generalization, and social validity.

Not open to students who have credit in SPCE 309.

610 Behavioral Consultation. (3) Training and supervised experience in providing behavioral consultation. Emphasizes the design and implementation of interventions for improving behavior and promoting adaptive skills in a variety of applied settings. Focuses on the analysis of consultant-consultee interactions in problem identification, problem solving, and outcome evaluation.

Prerequisite: SPCE 609 or equivalent.

611 Advanced Applied Behavior Analysis. (3) Building upon an introduction to applied behavior analysis, provides an in-depth treatment of behavioriological principles and advanced coverage of special topics including antecedent interventions, behavioral fluency, development of verbal behavior, and planning and evaluating applied behavioral research. Content aligns with the task list for Board Certified Behavior Analysts.

Prerequisite: SPCE 609 or equivalent.

612 Theory and Practice in Early Childhood Special Education. (3) Foundations of early intervention will be discussed, as well as issues related to legislation, service delivery models, family involvement, transition, and typical/atypical development.

613 Assessment Strategies in Early Childhood Special Education. (3) Discussion of different techniques for identification and assessment of infants, toddlers, and preschoolers with special needs. Covers widely used norm and criterion-referenced tests, play-based assessment, transdisciplinary assessment, family assessment, and writing reports.

Prerequisite: SPCE 612.

Not open to students who have credit in SPCE 215.

614 Developmental Methods for Infants and Toddlers with Special Needs. (3) Examines developmental strategies and curricular practices for serving infants and toddlers with special needs and their families. Emphasizes the application of research findings to the development of best intervention practices.

Prerequisite: SPCE 613.

Not open to students who have credit in SPCE 311.

616 Developmental Methods for Preschool Children with Special Needs. (3) Examines instructional methodology and curricular practices for serving preschoolers with special needs and their families. Best practices are presented within the context of recent research.

Prerequisite: SPCE 614.

Not open to students who have credit in SPCE 312.

617 Practicum: Infants, Toddlers, and Preschoolers with Special Needs. (1-12) Work with young children with special needs or disabilities in a supervised teaching practicum. Acquire practical skills for planning and organizing activities to meet the needs of young children and their families.

Prerequisite: SPCE 612, 613, 614, 616; permission of the department chairperson.

Not open to students who have credit in SPCE 417.

619 Professional Issues in Applied Behavior Analysis. (3) The synthesis and refinement of the student’s personal philosophy of applied
behavior analysis and its practice in schools, hospitals, residential settings and out patient settings is emphasized. Individual study of current literature on issues, ethics, current problems, and research in applied behavior analysis.

Prerequisite: permission of the department chairperson.

624 Vocational Preparation and Transition for Students with Disabilities. (3) Curricular sequences and organizational patterns in the education of adolescents and young adults with disabilities as they contribute to vocational readiness. Emphasis is on program implementation and professional roles that will maximize the transition of individuals with disabilities from education to post-secondary outcomes.

631 Computer Technology and the Learner with Special Needs 3. (3) Study of computers hardware and software as it relates to learners with special needs. Topics include using adaptive hardware and software to enable computer access, customizing curriculum content, and making assistive technology decisions.

632 Introduction to Emotional and Behavioral Disorders. (3) Introduction to the history of educating children and youth with emotional and behavioral disorders, problems of defining, assessing, and treating emotional and behavioral disorders; and types and causes of behavior and learning problems.

Prerequisite: SPCED 201 or 600.

634 Educating Students with Emotional and Behavioral Disorders. (3) For future teachers of students with emotional and behavioral disorders. Addresses educational assessment, materials, and programs for students with emotional and behavioral disorders.

Prerequisite: SPCED 201 or 600 and 632.

636 Research in Special Education. (3) Investigation, summary, and interpretation of research in special education. Each student will write and submit a research report to fulfill course requirements.

Prerequisite: SPCED 201 or its equivalent.

637 Organization and Administration of Special Education. (3) Programs in special education in Indiana and other states. Special inquiry into Indiana law and current practices pertaining to the establishment and supervision of special education programs.

638 Practicum: Applied Behavioral Analysis. (1-9) Provides practical experiences for students in applied behavior analysis or the behavior disorders teaching concentration; supervised by Board Certified Behavior Analysts or qualified special education teachers, respectively. Includes planning, implementing, and evaluating behavioral interventions.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

639 Special Education Administration and Organizational Behavior. (3) This course prepares students to effectively manage and organize the administration of special education. Course content enables students to make informed decisions concerning organizational behavior within special education programs and services. Systems approaches to best practice and application of organizational theory related to public policy and educational administration are explored.

Prerequisite: SPCED 600; permission of the department chairperson.

651 The Eye: Its Functions and Health. (3) Provides initial experience in working with students who are visually impaired. Topics include reading and interpreting optometric and ophthalmological reports for educational planning and working with families at various stages of the acceptance process.

652 Programs and Services for Individuals with Visual Impairment. (3) Background knowledge of the field of blindness including history, developmental impact of visual disabilities, creating interdisciplinary learning experiences, and continuum of services.

Prerequisite: SPCED 651.
653 Communication Skills for Individuals with Visual Impairments. (3) Learn to read, write, and teach Braille to students with visual impairments. Topics include conducting functional literacy assessments and matching learning medium (i.e., Braille, text) to student learning capabilities.

Prerequisite: SPCED 652.

654 Instructional Accommodations for Individuals with Visual Impairment. (3) Strategies for teaching and adapting curriculum in content areas, collegial collaboration, and assessment of students with visual impairments. Includes discussion of low- and high-end technology.

Prerequisite: SPCED 653.

655 Principles of Orientation and Mobility. (3) Basic indoor orientation and mobility techniques and sighted guide strategies. Emphasis on acquisition of prerequisite skills for orientation (O and M). Includes assessment and utilization of low vision and appropriate use of mobility aids.

Prerequisite: SPCED 654.

656 Practicum in Teaching Students. (3) Opportunity to practice program skills in a school setting. Program cohort students will pair with experienced teachers at the Indiana School for the Blind (ISB) during the ISB’s summer school program.

Prerequisite: SPCED 655; permission of the department chairperson.

660 Seminar in Special Education. (3-9) Group or individual investigation of a selected topic in special education.

A total of 9 hours of credit may be earned.

677 Teaching Parents to Educate Their Exceptional Child. (3) Interpersonal skills required by teachers as they work with parents of exceptional children; surveys child management systems that teachers may teach parents; surveys problems that affect families with exceptional children. Specific training in the acquisition of these competencies offered through required practicum and simulation modules.

680 Introduction to Persons with Autism Spectrum Disorders. (3) Provides an overview of autism spectrum disorders. Emphasizes etiology and assessment of disorders in the autism spectrum. The various nomenclatures used to identify autism spectrum disorders are reviewed.

Prerequisite: permission of the department chairperson.

682 Interventions and Treatments for Persons with Autism. (3) Overviews specific interventions and treatments used with persons with autism spectrum disorders. Emphasis is placed on evidenced-based approaches used within the home, school, and other settings.

Prerequisite: permission of the department chairperson.

683 Practicum in Autism. (1-6) Covers a variety of settings including schools, residential treatment centers, hospitals, day-cares, public and private clinics, and other settings. Intensive supervision given through individual supervisory meetings.

Prerequisite: SPCED 680, 682.

A total of 6 hours of credit may be earned.

686 Introduction: Mild Interventions. (3) Characteristics, state and federal laws, informal assessment, and effective teaching techniques for students needing mild interventions.

Prerequisite: SPCED 600; admission to the teacher education program; Teachers College professional education requirements.

687 Educational Assessment: Mild Interventions. (3) Academic assessment of learning problems using standardized and
informal techniques. Requires assessment of individual pupils and written report of findings.

Prerequisite: SPCED 686 with a grade of B or better; admission into the teacher education program, Teachers College selective retention standards.

688 Methods of Mild Intervention. (3)
Effective teaching strategies for learners requiring mild interventions in inclusive and other settings. Specific emphasis is placed on evidence-based practices and current directions in special education.

Prerequisite: SPCED 687 with a grade of B or better, admission to teacher education program, Teachers College selective retention standards. Permission of the department chairperson.

A total of 9 hours of credit may be earned.

690 Student Teaching in Exceptional Needs. (1-12) Graduate level student teaching experience for post-bachelor’s students completing requirements for an initial teaching license in special education. Offered credit/no credit only.

Prerequisite: Teachers College professional education requirements; permission of the department chairperson.

A total of 12 hours of credit may be earned.

693 Practicum in Special Education: Physical Impairment. (1-9) Required for licensure in Exceptional Needs: Intense Intervention. A minimum of three hours of practicum must be taken for credit in this specialty area for licensure.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

694 Internship in Special Education. (3-9)
Assignment to professional settings for advanced-degree students performing jobs under the direction of local and college supervisors. Settings include single or multi-categorical exceptionalities and instruction-al, supervisory, and administrative roles in special schools, clinics, agencies, and public schools.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

697 Practicum: Mild Interventions. (1-9)
Supervised teaching experiences with individuals who need mild interventions in public schools, clinics, or other educational settings.

Prerequisite: SPCED 688; admission to teacher education program; Teachers College professional education requirements; permission of the department chairperson.

A total of 9 hours of credit may be earned.

698 Practicum in Special Education: Intense Intervention. (1-9) Required for licensure in Exceptional Needs: Intense Intervention. A minimum of three hours must be taken for credit in this specialty area for licensure.

Prerequisite: permission of the department chairperson.

A total of 9 hours of credit may be earned.

701 Seminar: Policies and Issues in Special Education. (3) Provides an in-depth examination of policies and issues that impact the special education profession. Topics can include legal issues and mandates, psycho-social aspects of disabilities, community-agency-parent partnerships, and related issues and developments.

Prerequisite: permission of the department chairperson.

702 Learning, Behavioral, and Developmental Disabilities and Special Needs. (3) Examines the instructional and curricular concerns for students with various disabilities and special needs. The particular disability or special needs group to be emphasized (e.g., autism) will vary based on the instructor.

Prerequisite: permission of the department chairperson.

703 Advanced Methods, Technologies, and Instructional Systems in Special Education. (3) Surveys advanced methods and technology systems that facilitate special education instruction. Special emphasis on research related to instructional methods. The specific content will vary contingent on the instructor.

Prerequisite: permission of the department chairperson.
706 Seminar-Instructional Strategies for Students with Intense Intervention Needs. (3)
Addresses curriculum-related problems associated with programming for students with intense intervention needs restrictive educational environment. Focuses on specific instructional strategies useful in implementing evidence-based practices among students with intense intervention needs.

Prerequisite: SPCED 701 or permission of the department chairperson.

707 Seminar-Instructional Strategies for Students with Mild Intervention Needs. (3)
Addresses curriculum-related problems associated with programming for students with mild intervention needs restrictive educational environment. Focuses on specific instructional strategies useful in implementing evidence-based practices among students with mild intervention needs.

Prerequisite: SPCED 687 and 701 or permission of the department chairperson.

709 Behaviorology and the Exceptional Person. (3) Examines experimental and theoretical foundations of the science of behavior in relation to the needs of exceptional persons. Emphasizes the experimental analysis of behavioral processes underlying the production of effective behavior-change technology currently applied in special education.

Prerequisite: SPCED 609 or permission of the department chairperson.

764 Seminar in Special Education. (3-6) A critical study of current issues, problems, and research in special education by individuals or groups.
A total of 6 hours of credit may be earned.
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