

# COLLEGE OF EDUCATION

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## Administration

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# COLLEGE OF EDUCATION

## Accreditation

The teacher education programs at The University of Toledo are accredited by the National Council for the Accreditation of Teacher Education (NCATE) and approved by the Ohio Department of Education. They meet all state of Ohio standards for licensure, standards of the respective national professional associations and NCATE standards for program accreditation.

## Undergraduate Programs

The College of Education offers undergraduate and graduate teacher education programs to meet the 1998 Ohio Teacher Education and Licensure Standards for initial teacher licensure. In some cases, programs are offered in collaboration with the College of Arts and Sciences or the College of Health and Human Services. Programs in the department of music are accredited by the National Association of Schools of Music.

The following undergraduate programs are open to students seeking teacher licensure.

### Early Childhood Education

Ages 3-8/grades PreKindergarten through grade 3 for children who are typically developing, at-risk, gifted and who have mild/moderate educational needs

### Special Education (Intervention Specialist)

Mild/moderate special needs: Ages 5-21/grades K-12  
 Moderate/intensive special needs: Ages 5-21/grades K-12  
 Visually impaired: Ages 3-21/grades PreKindergarten to grade 12

### Middle Childhood Education

Ages 8-14/grades 4 through 9 with two of the following concentrations:

Reading and Language Arts  
 Mathematics  
 Science  
 Social Studies

### Adolescent and Young Adult Education

Ages 12-21/grades 7-12 in each of the following areas:

Integrated Language Arts  
 Integrated Mathematics  
 Integrated Social Studies  
 Science (nine options)

### Multi-Age Education

Ages 3-21/grades PreK-12 in each of the following areas:

Visual Arts  
 Music  
 Physical Education  
 Health  
 Foreign Languages (French, German & Spanish)

## Career and Technical Education

Ages 8 and over/grades 4 or higher in each of the following areas:

Health Careers Education  
 Industrial Engineering Systems  
 Integrated Business Education

**Note:** Work experience options for vocational licensure are also available via a 24 credit hour program in agriculture, health careers, industrial engineering systems, family and consumer sciences, business and marketing.

## Computer/Technology Endorsement

This endorsement may be earned as part of a baccalaureate program leading to initial teacher licensure.

## Graduate Programs

The College of Education also offers graduate programs for initial teacher licensure and for certification/licensure endorsement.

*Refer to the Graduate School section of this catalog for information on programs and policies specifically related to graduate students.*

## Degrees Offered

The following undergraduate degrees are available to students in the College of Education and are conferred by The University of Toledo:

Bachelor of Education  
 Bachelor of Arts in Education  
 Bachelor of Science in Education

The teacher education programs listed above may offer students the option of earning a bachelor of education degree and either a bachelor of arts or bachelor of science degree from the College of Arts and Sciences. In this instance, special program conditions exist, and students must check with faculty advisers for specific course and program requirements.

Students who wish to pursue the bachelor of arts in education or bachelor of science in education degree must complete the following:

1. University core and other general education requirements of the College of Arts and Sciences and the College of Education.
2. Major field requirements of the College of Arts and Sciences and the content major requirements as specified by the College of Education.
3. Professional education requirements.

Ordinarily, these programs exceed the 128 minimum credit hours required for bachelor's degrees and, therefore, take longer than four academic years (8 full-time equivalent semesters) to complete.

## Admission Requirements

Application for admission to the College of Education must be submitted to the Office of Undergraduate Admission. Requirements for admission to the University are discussed in the General Section of this catalog. **Note: Students who are eligible for initial admission to the college are not guaranteed admission to the professional education program in the junior year. All licensure programs have specific additional requirements for admission to professional education.**

## Readmission of Former Students

Undergraduate students who discontinue course work for a period of at least one academic year (not including summer) must request readmission to the University. If students have taken any course work at another institution during the time they have been away from the University (other than transient status), they must complete a new application in the Office of Undergraduate Admission and meet transfer admission requirements.

**Students who have not taken course work for more than 12 months must comply with the college requirements at the time of readmission.** When seeking readmission, students whose grade point average (GPA) is below 2.0 can only be readmitted on approval of the associate dean. Students with a GPA of 2.0 or higher may seek readmission in the college office.

## Admission of Transfer Students

Students in good standing may transfer with the following minimum requirements from another college at The University of Toledo or from other accredited colleges and universities and enroll in the College of Education.

Number of credit hours	Minimum required GPA
Less than 30 .....	2.2 overall
30 – 59 .....	2.3 overall
60 or more .....	2.7 overall and 2.7 in student's major

Students wishing to transfer from another college on campus to the College of Education must not have been suspended prior to or during the semester in which the student initiates transfer proceedings. If suspended from another baccalaureate college, the student must fulfill requirements of the suspension policy of that college.

Students with satisfactory records from other accredited colleges and universities may enroll in the College of Education after review of official transcripts and admission into the college. After the transfer process has been completed, the student is notified of the allowed transfer credit. **Courses in which a grade of C or better has been earned may be accepted for credit either for comparable required or elective credit.**

## Degree Requirements

Candidates for degrees in the College of Education must complete a minimum of 128 undergraduate credit hours of course work. Students completing degree programs in teacher education must attain a minimum overall higher education GPA of 2.7, as well as maintain the same average in their teaching major and professional education courses prior to enrolling in internship/student teaching. The cumulative average includes all grades for credits earned plus grades of IN and F and those acquired in repeated courses at The University of Toledo and at other institutions that the student attended.

Students may qualify for a second bachelor's degree in the College of Education by completing a minimum of 32 credit hours of additional residence course work and by satisfying the applicable bachelor's degree requirements and state requirements.

## University Core Curriculum

Students earning bachelor's or associate's degrees in all University colleges and programs are required to complete 27-30 credit hours of courses that

comprise the University Core Curriculum. Those courses are distributed in the areas of English composition, mathematics, humanities/fine arts, social sciences, natural sciences, and multicultural studies (see the *General Section* of this catalog for details). Some colleges and programs require courses in these areas over and above those required to fulfill University core requirements. The student's academic department or college office should be contacted for specific details.

## Residence Requirement

Students transferring from other institutions must earn at least 32 credit hours in the College of Education at The University of Toledo to be eligible for graduation and/or licensure.

Junior and senior level courses in professional education must be completed in residence for students completing teacher education programs.

## Application for Graduation

*Refer to the General Undergraduate Degree Requirements in the General Section of this Catalog for information.*

## College Honors Programs

The University Honors Program in the College of Education offers academically gifted students the opportunity to take especially challenging courses and to work very closely with faculty to achieve personal goals. Honors courses are small and encourage advanced inquiry, reasoning, and discussion. Special academic counseling, field experience mentoring, priority registration and research opportunities are additional features of the Honors Program.

## Admission Criteria

Admission to the University Honors Program normally requires a minimum high school GPA of 3.75 on a 4.0 scale, a minimum ACT composite score of 28 and a review of application materials, which include an essay on an assigned topic, a personal resume and written recommendations. Interested students with ACT scores of 25 and GPAs of 3.5 are encouraged to apply and will be considered on a space-available basis.

## Academic Requirements

To remain in the college's Honors Program, students must maintain a minimum GPA of 3.0 and must continue to make adequate progress toward completing the program requirements.

## Program Requirements

To be eligible for the college's Honors citation upon graduation, a student must:

1. Complete a minimum of 33 semester hours of Honors course work, including six hours of Honors Readings Conference during the first year and two Honors interdisciplinary seminars;
2. Submit a supervised Honors thesis; and
3. Achieve a final GPA of 3.3.

**Note:** When Honors sections of courses are not available, courses may be converted into Honors courses by developing a learning contract with the instructor. Forms are available in the college office or from the Honors faculty adviser.

## General Academic Policies

*Refer to the General Section of the Catalog for general academic policies that apply to all students.*

## GPA Recalculation

The College of Education will permit a maximum total of 12 credit hours of C-, D+, D- and/or F to be deleted. In order to have a grade deleted, a student needs to have retaken the course and achieved a grade of C or higher.

## Academic Suspension

Suspended students are dropped from The University of Toledo for a period of at least one semester. Refer to the General Section of the Catalog for the University policy on suspension.

Once the suspension is served, the student desiring readmission to the college must appeal in writing to the department chair at least three weeks prior to registration for the semester in which attendance is desired. Suspended students who are granted readmission must maintain the designated GPA for each semester thereafter. Students failing to meet these conditions are subject to academic dismissal. The dean's decision on dismissal is final.

A student suspended twice from the college will not be permitted to enroll in classes at the University for one full calendar year from the date of second suspension.

**Note:** Students are required to remove incomplete grades during suspension periods.

## Dismissal

Dismissed students are not eligible for readmission to the College of Education. A student may be dismissed for:

1. failure to meet the conditions of readmission after suspension from the College of Education.
2. demonstrating patterns of behavior that are inappropriate for students preparing for educational roles or for failing to meet the morals standard as defined by the state of Ohio.

Regulations for probation, suspension and dismissal apply to both full-time and part-time students. In all matters, the dean's decision is final.

## Academic Honesty

See the General Section of this Catalog for the specific policy.

## Academic Grievances: Due Process

Students have the responsibility and right to call to the attention of a professor any grade that the student believes to be in error. Such attention must follow the procedure described. **This procedure must be initiated within 60 days of the posting of the grade report.**

1. The student meets with the instructor to attempt to resolve the problem.
2. If the procedure in Step 1 does not resolve the problem, the student may request intercession by the department chair. The chair attempts to resolve the problem, but the chair may not unilaterally change the grade.
3. Should the problem not be resolved at the department level, the student may appeal in writing to the associate dean. This written document must specifically state the reasons for the appeal and the desired outcome. The student must meet with the associate dean to review and discuss the problem, but a decision will not be rendered here.
4. If the student wishes to continue the appeal, the written appeal will be submitted to the Academic Affairs Committee.

5. The Academic Affairs Committee will appoint an Appeals Subcommittee that will collect all data related to the appeal, in writing, and will interview the student and/or instructor, if necessary, to make recommendation to the associate dean. All proceedings and deliberations of the committee will remain in confidence.
6. The Appeals Subcommittee will inform the chair of the college Academic Affairs Committee of the recommendation.
7. The dean will make the final decision and will be responsible for informing all appropriate parties.
8. A further appeal can be taken by the faculty member or student to the University Academic Appeals Committee.

Students who seek recourse for allegations relative to academic problems should consult the following sources: *University Policies and Procedures Manual*, *Student Handbook* and *The Student Teacher Handbook*. Graduate students should refer to the grievance policy of the Graduate School.

## Teacher Education Programs

### Degree and Licensure Requirements

Candidates for the bachelor of education degree in any of the professional education programs must complete a minimum of 128 credit hours of course work with a minimum cumulative GPA of 2.7 on a 4.0 scale. Students also must maintain a cumulative GPA of 2.7 or better in all professional education courses and in all teaching fields. The cumulative average includes all grades for credits earned plus grades of IN and F and those acquired in repeated courses at The University of Toledo and at other institutions that the student attended.

Undergraduate programs in the College of Education meet all University of Toledo requirements for the bachelor's degree. Some meet requirements for both the B.Ed. and the B.A. or B.S. degree. They also meet all state of Ohio, national professional association and NCATE standards for program accreditation and initial professional licensure. Programs vary in length from a minimum of 128 hours (4 years) to 217 hours (5 ½ years) as follows:

<u>Minimum Credit Hours</u>	<u>Equivalent Years</u>
<b>DUAL DEGREE ONLY</b>	
Adolescent & Young Adult Education	
Integrated Language Arts	151-161 4 1/2
Integrated Mathematics	145-155 4 1/2
Integrated Social Studies	158-167 4 1/2
Science (9 options)	184-220 5-5 1/2
<b>DUAL OR SINGLE DEGREE</b>	
<b>Dual Degree Option</b>	
Middle Childhood Education	153-178 5-5 1/2
Multi-Age Education:	
Foreign Languages (French, German or Spanish)	151 4 1/2
Health Education	148+ 5
Physical Education	148+ 5

**Single Degree Option**

Middle Childhood Education	144-162	4 1/2-5
Multi-Age Education:		
Foreign Languages (French, German or Spanish)	131	4
Health Education	128	4
Physical Education	128	4
Special Educ. Intervention Specialist	136-151	4-5

**SINGLE DEGREE ONLY**

Early Childhood Education	132*	4 1/2
Multi-Age Education:		
Music Education	140	4 1/2
Visual Arts Education	134	4

\*Students who satisfy one of the two multicultural requirements with one course that simultaneously fulfills a second area of the core will graduate with 129 hours.

Students who successfully complete all college degree requirements, student teaching/internship and licensure exams will be recommended for a two-year provisional teaching license in Ohio. For additional information on licensure requirements, students should inquire in the college.

The above policy reflects not only college action but also the requirements of NCATE. **In addition, the State of Ohio requires students to submit fingerprinting cards to the Bureau of Criminal Investigation before a professional license will be issued.**

**Criteria and Procedures for Admission to Professional Education**

To be eligible for advanced professional admission to a teacher licensure program, a student must demonstrate:

1. Current enrollment in the College of Education;

**Note:** Students should apply for admission to professional education no later than the fifth semester of full-time enrollment. Students in the respective licensure programs should apply while enrolled in the following respective courses:

**Early Childhood Education** CIEC 3200 Philosophy and Practices

(Interviews and fingerprint packets will be completed during the semester in this course.)

**Special Education** SPED 4240 Teaching Reading & Literacy: Special Needs

**Middle Childhood Education** CI 3240 Best Practices in Middle Level Education

**Adolescent & Young Adult Education** CI 3900 A & YA Linking Seminar 3

**Visual Art Education, Music Education** EDP 3200 Applied Psychology for Teaching

**Physical Education** PED 2950 Intro to Teaching PE

**Health Education** HEAL 2900 Linking Seminar

**Foreign Languages Education** CI 2980 Foreign Language Linking Seminar 2

**Career and Technical Education** See program director

2. Completion of a minimum of 48 credit hours of approved course work, including required Linking Seminars and 12 hours in residence;

3. Cumulative GPA (for transfer students, a higher education GPA) of at least 2.7;
4. Mastery of reading, writing, and mathematics skills evidenced by minimum scores on PRAXIS I skills tests as follows:

<u>WRITTEN</u>	<u>COMPUTER ADAPTED</u>	
Mathematics	172	172
Reading	172	172
Writing	172	172

**Note:** PRAXIS I should be taken no later than the student's third semester of full-time enrollment.

5. Acceptable progress in Arts and Science licensure content courses or published criteria;
6. Prior experience with appropriate populations in schools and agencies based on satisfactory completion of introductory courses/seminars, letters of support and/or portfolios;
7. Effective communication and interpersonal skills based on early experiences, introductory course/seminar(s), ratings from professionals in the field, and/or interview ratings;
8. Verification of good moral character as stipulated by the State of Ohio. **Students will not be allowed to continue in a teacher education major nor participate in a field experience if they have pleaded guilty to, have been found guilty of, or have been convicted of the following: any felony; any violation of section 2907.07 of the Revised Code; any offense as defined in section 2901.01 of the Revised Code; any offense as defined in section 2913.01 of the Revised Code; or any drug abuse offense as defined in section 2905.01 of the Revised Code that is not a minor misdemeanor; or any substantively comparable ordinance of a municipal corporation or of another state.** Students in teacher education licensure programs who are negatively affected by the State of Ohio laws as stated in the Revised Code should contact the associate dean for undergraduate studies and accreditation for assistance; and
9. Completion of additional published program admission criteria, if any.

Each licensure program will determine those eligible for advanced professional admission. Students will apply for and be notified of admission to professional education after a minimum of 48-64 credit hours of completed program course work. Students not admitted may reapply when identified deficiencies have been corrected.

**IMPORTANT:** Each undergraduate licensure program will establish a set of guidelines and procedures that students seeking admission to professional education will follow. Students should contact the department chair, adviser or department secretary for assistance.

**Academic Requirements**

Students must maintain the required GPA (as outlined in the admission criteria) and complete satisfactorily the professional education courses and field experiences with a grade of C or above in each in order to maintain full admission status.

**Students with Transfer Credit**

Transfer students are required to complete all course work at The University of Toledo with a minimum of a 2.7 GPA overall, in professional education, and in all teaching fields. In addition, they must meet all requirements for admission to the professional education programs as outlined above. The GPA standards are for The University of Toledo course work as well as for all other college course work attempted.

Transfer students must complete a minimum of 12 credit hours at The University of Toledo and must complete a total of at least 48 credit hours of course work before applying for admission to professional education. Students are responsible for initiating this application.

## Field/Clinical Experiences

Students who intend to be teachers can expect to spend extensive amounts of time in schools and community agencies as they progress through required professional courses and internship experiences. Introductory courses and exploratory seminars offered to students in the preteacher education program may include field experiences. Students may be required to assemble portfolio evidence of experience as they progress through their program. Students must submit to a background check and fingerprinting.

## Student Teaching/Internship Requirements

To qualify for an assignment in student teaching/internship, a student must satisfy the following requirements:

1. Full admission to professional education;
2. Completion of a minimum of 100 credit hours;
3. Completion of 90 percent of the course work in the major area(s) of study;
4. Completion of all required prerequisite professional education courses including methods course(s) and satisfactory completion of all field experiences;
5. 2.7 GPA in major(s)/licensure area(s), professional education, University of Toledo GPA and overall as determined by the overall higher education GPA; and
6. Must meet Ohio's good moral character requirement.

## Admission to Student Teaching/Internships

Admission to student teaching/internships will be determined by program faculty in cooperation with the college Office of Student Field Experiences. Students submit applications for student teaching/internships to the Office of Student Field Experience. Applications must be submitted one year in advance.

Each student's credentials are reviewed and a preliminary recommendation is made. Final approval will not be granted until all course work and grades are reviewed during the semester immediately preceding the internship. A student must meet all minimum criteria and be approved by the departmental committee in order to begin student teaching/internship.

## Student Teaching/Internship Assignments

The staff of Student Field Experiences makes the assignment in keeping with the best learning situation for the individual student. Student teaching/internship is not offered in the summer, because it is not possible for students to complete the equivalent requirement.

## Licensure

### Licensure Tests

All students completing a teacher education licensure program are required to complete a series of licensure tests. These tests are required by the Ohio State Department of Education and NCATE. The required tests are listed below.

1. **Preprofessional Skills Test (Praxis I).** Students are required to take the Praxis I and successfully pass all sections prior to full admission

to professional education. It is recommended that this test be taken between completion of 32 and 64 credit hours of course work, either at a designated on-campus site or at a local testing center. Students are responsible for all test fees. Students may be permitted to retake one or more sections of the test and must pay all fees. Before retaking a test, a student should consult with an academic adviser for remedial assistance.

2. **Praxis II.** The state of Ohio has adopted a series of licensure tests that all teacher education students must satisfactorily complete in order to be recommended for licensure. Tests are required in professional education and the subject content area(s). Students are required to register for these exams and to pay all testing fees. Information about tests, testing dates and location, test preparation and passing scores may be found in the department offices and in the college office.
3. **Other assessment instruments** will be used throughout the program to assess students and also to provide information on the quality of the program.

## Recommendation for Licensure

Licensure to teach in the fields selected is made only upon the recommendation of the dean of the College of Education. The dean will recommend licensure to the Ohio State Department of Education only in the teaching fields in which the student meets all requirements as defined in this Catalog.

## Academic Program Requirements

The following program descriptions provide a general outline of each major program. **Program check-sheets are available in the College of Education office and provide specific individual course requirements and options for each major.** Students should use the appropriate check-sheet to keep a record of completion of the respective program requirements.

For all single degree programs, the student must complete 128-161 total hours. With dual degree programs, all students must complete 148-217 total hours. Students should see an adviser for additional information on specific program requirements.

## Early Childhood Education

The early childhood education programs prepare students to work with children who are typically developing, at-risk, gifted, and mild-moderate special needs infants, toddlers, preschoolers, kindergartners and primary students in a variety of settings (ages 3-8/grades PreK-3).

### University Core and General Education: 36 hours minimum

### Preprofessional Education: 11 hours

(must be completed prior to making application for professional standing)

CIEC	1900	Early Childhood Linking Seminar I.....	1
		(must be taken concurrently with A&S course)	
CIEC	2900	Early Childhood Linking Seminar II.....	1
		(must be taken concurrently with A&S course)	
CIET	2020	Multi-Media for Educ Environ.....	2
<i>The following courses are taken concurrently:</i>			
CIEC	3200	Philosophies/Practices in ECE.....	3
EDP	3210	Early Childhood Develop: Typical.....	3
SPED	3220	Early Childhood Develop: Atypical.....	1

**Cognate Courses: 9 hours**

(Must be completed before the final three semesters of program - professional standing not required.)

MED	3030**	Music for Early Childhood	2
AED	3100	Art for the Preprimary Child	3
PED	2450	PE for Early Childhood Education	2
HEAL	3100	Health Education for ECE	2

\*\*Has a prerequisite of MUS 2200 or comparable experience.

**Professional Education Courses: 18 hours  
(Professional Standing required)**

CIEC	4350	Infant/Toddler Curriculum (includes 24 hours of field experience)	3
CI	3430	Phonics & Word ID for ECE	3
CI	3460	Literacy & Reading Devel Young Chld	3
CI	4510	Math for the Young Child	3
Additional reading courses (course number and title to be determined)			6

**Liberal Arts Foundation: 17 hours**

All courses in this area must be in Arts and Sciences.

**Cohort Semesters: 42 hours (final 3 semesters in the program)**

Professional standing required - Students must register for all courses listed under each cohort semester.

**Cohort Semester 1: 10 hours**

CIEC	3350	Child/Family & Public Policy	3
CIEC	3380	Clinical Field Exp (80 hours)	2
CIEC	3390	Integrative Seminar: Soc-Cult Dim	2
TSOC	3000	Socio-Cultural Analysis	3

**Cohort Semester 2: 16 hours**

CIEC	4070	Effective Teaching Practices	5
CIEC	4480	Integrative Field (200 hours)	5
CIEC	4490	Integrative Seminar: Best Practices	2
SPED	4080	Curr Adapt & Strategies/ECE	4

**Cohort Semester 3: 16 hours**

CIEC/SPED	4900	ECE Internship Seminar	2
CIEC/SPED	4930	Internship in ECE	12
CIEC	4910	ECE Senior Research Project	2

Total semester hours: 132

**Special Education (Intervention Specialist)**

Programs in special education prepare pre-service baccalaureate students for initial teacher licensure as intervention specialists. These specialists work with students (K-12/ages 5-21) with mild/moderate or moderate/intensive educational needs. These include children and youth with specific learning disabilities, mental retardation, autism, physical and health impairments, attention deficit and hyperactivity disorders, emotional disturbance, and communication and language difficulties. Graduates may also be prepared to work with students (PreK-12/ages 3-21) with vision impairment. Preparation for Early Intervention Special Education and Adult Services occur at the graduate level. Majors in this program are prepared to teach in a variety of settings where services are provided to students requiring specialized interventions to experience success in the education environment.

**University Core and General Education: 30 hours minimum****Additional Requirements: 42 hours**

English Comp (above Comp II)		3	
Foreign Language (must take one area – Sign Language accepted)		14	
Humanities/Fine Arts		9	
Social Science		3	
AED	4140	Art Ed/Special Child	3
BIOL	2020	Human Form & Function	4
CI	3430	Phonics/Word ID	3
HEAL	4400	Health Ed for Youth	3

**Preprofessional Education: 12 hours**

(Must be completed prior to submitting an application for professional standing.)

CIET	2020	Multi-Media in Educational Environments	2
SPED	2040	Perspectives in Special Education	3
SPED	2910	Cultural Diversity in Special Education	1
SPED	3130	Linguistic Analysis	3
SPED	4240	Teaching Reading	3

(Application for professional education standing occurs in this course.)

Must complete PRAXIS I exam and receive a minimum score required by the College of Education of 172 in each test area and complete 48 hours with a 2.7 GPA or higher.

**Professional Education: 38 hours**

EDP	3280	Foundations of Teaching/Learning	3
EDP	3290	Lifespan Development	3
SPED	4060	Specialized Intervention in Infancy & Early Childhood	4
SPED	4110	Curr/Meth Students w/Mod Needs	3
SPED	4250	Career/Voc Ed for Except. Youth	3
SPED	4260	Family/Professional Partnership	3
SPED	4340	Interpersonal Skills in Class	3
TSOC	3000	Socio-Cultural Analysis	3

**Final Semester/Senior Year (concurrent enrollment):**

SPED	4930	Internship/Student Teaching	12
SPED	4600	Professional Reflective Seminar	1

**Options: Select one of the following:****Mild-Moderate Intervention Specialist: 11 hours**

CI	4000	Principles of Curriculum Integration	3
CI	4010	Middle Grades Field Experience	1
SPED	4100	Field Practicum Mild/Moderate	4
SPED	4370	Curr/Method Mild Needs	3

**Moderate-Intensive Intervention Specialist: 13 hours**

SLP	4440	Augmentative Comm. Systems	3
SPED	3670	American Sign Language I	3
SPED	4120	Teaching Students with Intensive Educational Needs	3
SPED	4130	Field Practicum	4

**Vision Intervention Specialist: 26 hours**

CI	4000	Principles of Curriculum Integration	3
CI	4010	Middle Grades Field Experience	1
SPED	3850	Braille I	3
SPED	3860	Braille II	3
SPED	4100	Field Practicum	4
SPED	4800	Vision Impairment	3
SPED	4810	Implications for Low Vision	3
SPED	4870	Education of the Blind and Visually Impaired	3
SPED	4880	Technology/Independent Liv Skills	3

## School Speech-Language Pathology

Licensure in speech-language pathology requires completion of a master's degree, both for school and clinical practice. The undergraduate program provides a significant portion of the total baccalaureate-master's preparation program. Students interested in this program should consult the department chair or undergraduate dean in the College of Health and Human Services.

## Middle Childhood Education

The middle childhood education program prepares students to teach elementary middle grade students, middle school students, and junior high students in two licensure areas to be chosen from among the following: Reading and Language Arts, Mathematics, Social Studies, and/or Science (ages 8-14/grades 4-9).

### Single Degree: B.Ed.

#### University Core and General Education: 27 hours minimum

#### Preprofessional Education: 13 hours

CI	1900	Linking Seminar: Intro Middle Grades Educ.....	1
CIET	2020	Multimedia in Educational Environments .....	2
Select one from the four below..... 1			
CI	2930	Linking Seminar: Arts & Science / Math	
CI	2940	Linking Seminar: Arts & Science / Science	
CI	2950	Linking Seminar: Arts & Science / Social Studies	
CI	2960	Linking Seminar: Arts & Science / Reading - Lang Arts	
CI	3240	Best Prac. in Middle Level Tchg.....	3
CI	3440	Phonics & Word Identification.....	3
HEAL	4400	Health Problems of Youth.....	3

#### Professional Education: 51 hours

Select the **two** methods courses that correspond to your licensure areas from the list below:

AED/MED	4230	Integrating Aesthetics.....	3
CI	4000	Principles Curr Integration/Middle Child.....	3
CI	4010	Field Exper for Curr Integration.....	1
CI	4250	Methods/Middle Grades/Math	
CI	4260	Methods/Middle Grades/Science.....	4
CI	4270	Methods/Middle Grades/Social Studies	
CI	4280	Methods/Middle Grades/Lang Arts .....	4
(CI 4290 is a corequisite)			
CI	4290	Middle Grades Methods/Field Exp.....	2
CI	4400	Reading in Middle Grades .....	3
CI	4490	Content Area Reading.....	6
CI	4930	Middle Grades Internship .....	12
CI	4990	Student Teaching Seminar .....	1
CMHS	4580	Teacher as Adviser .....	3
EDP	3240	Child & Early Adoles. Develop.....	3
SPED	4030	Ed Stud w/Disabilities Middle Grades.....	3
TSOC	3000	Socio-Cultural Analysis .....	3

### Licensure Areas: Select two

Students will concentrate in two licensure areas and will complete course work in each area. Up to 4 hours can also be used to fulfill the core curriculum from each concentration area.

#### Mathematics: 26 hours

MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I.....	4
MATH	1840	Calculus II for Educators or	
MATH	1860	Calculus II.....	4

MATH	2600	Introduction to Statistics.....	3
MATH	2620	Discrete Probability .....	3
MATH	3440	Fundamental of Geometry I.....	3
MATH	3510	History of Mathematics.....	3
MATH	3920	Num. Sys. & Algebraic Structures.....	3
CI	4550	Mathematical Problem Solving.....	3

#### Reading and Language Arts: 33 hours

CI	4320	Literature for Young Adults .....	3
CI	4360	Multicultural Literature.....	3
COMM	2000	Mass Communication & Society .....	3
ENGL	2010	Advanced Comp.....	3
ENGL	3000	Human Language <b>or</b>	
ENGL	3150	Linguistic Principles .....	3
ENGL	3280	Contemporary Poetry .....	3
ENGL	3600	American Literacy Masterpieces .....	3
ENGL	3770	World Literature.....	3
ENGL	3980	Writers on Writing .....	3
ENGL	4090	Current Writing Theory.....	3
ENGL	4340	Modern Drama.....	3

#### Science: 29 hours minimum

##### Life Sciences

#### Select 8-10 hours from the list below:.....8-10

BIOL	1120	Survey of Biology.....	3
BIOL	1140	Bio Aspects/Hum Consciousness.....	3
BIOL	1150	Human Inheritance.....	3
BIOL	2010	Major Concepts in Biology.....	3
BIOL	2150	Fundamentals of Life I: Diversity of Life, Evolution and Adaptation.....	4
BIOL	2160	Fundamentals of Life Science Lab I.....	1
BIOL	2170	Fundamentals of Life Science II: Cells, Inheritance and Development .....	4
BIOL	2180	Fundamentals of Life Science Lab II.....	1
EEES	1130	Human Ecology .....	3
EEES	2150	Biodiversity.....	4
EEES	2160	Biodiversity Lab.....	1
EEES	3050	Ecology .....	3

##### Chemistry

#### Select 4 hours from the list below:..... 4

CHEM	1100	Concepts in Chemistry.....	3
CHEM	1150	Concepts in Chemistry Lab.....	1
CHEM	1210	Chemistry for Life Science I.....	3
CHEM	1230	General Chemistry I.....	4
CHEM	1260	Chemistry for Life Science I Lab.....	1
CHEM	1280	General Chemistry Lab.....	1

##### Physics

#### Select 4 hours from the list below:..... 4

NASC	1100	Matter & Energy .....	3
NASC	1110	Matter & Energy Lab .....	1
PHYS	1750	Introduction to Physics .....	4

##### Earth/Space Science

#### Select 10 hours from list below..... 10

ASTR	1010	Survey of Astronomy.....	3
EEES	1010	Physical Geology .....	3
EEES	1020	Introductory Geology Lab.....	1
GEPL	3540	Weather and Climate.....	3

##### Science Electives

#### Select one from the list below:.....2-3

ASTR	2010	Solar System Astronomy .....	3
ASTR	2020	Stars, Galaxies, and the Universe .....	3
ASTR	2050	Elementary Astronomy Lab.....	1
ASTR	4800	Astronomy/Planetarium.....	3
BIOL	1340	The Nature of Science.....	3
EEES	1030	Historical Geology.....	3
EEES	1040	Historical Geology Lab.....	1
EEES	2400	Oceanography & Water Resources .....	3



EEES	3000	Geology of National Parks.....	3
GEPL	3610	Conservation/Resource .....	3
PHIL	3180	Environmental Ethics.....	3
PHIL	3310	Science and Society .....	3
PHYS	1050	The World of Atoms.....	3
PHYS	1300	Physics in Everyday Life .....	3
PHYS	1310	Physics of Music and Sound.....	3
PHYS	1320	Jurassic Physics.....	3
PHYS	1330	Physics of Light and Color .....	3
PHYS	1340	The Nature of Science.....	3
SOC	4580	Science, Tech, & Social Change .....	3

**Social Studies: 27 hours****Economics**

ECON	1200	Principles of Microeconomics .....	3
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**Humanities**

HUM	3020	Reason's Culture .....	3
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**Political Science**

PSC	1200	American National Government.....	3
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**Sociology**

SOC	2640	Race, Class, and Gender .....	3
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**History**

HIST	3290	Ohio History.....	3
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**U.S. History**

Select two from list below: .....	6
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HIST	2340	American Indian History .....	3
HIST	3260	African-American History from 1865 .....	3
HIST	3280	City & Metropolis in Modern America.....	3
HIST	3310	Ethnic America.....	3
HIST	3320	Indians in Eastern North .....	3
HIST	3370	American Intellectual History II.....	3
HIST	3410	American Social History from 1850 to Present .....	3
HIST	3480	American Labor and Working Class History.....	3
HIST	3600	Women in American History .....	3
HIST	4200	Colonial Foundations of U.S. ....	3
HIST	4230	The Early Republic .....	3
HIST	4250	Civil War & Reconstruction.....	3
HIST	4280	U.S. Since 1945: Affluence & Annexation .....	3
HIST	4430	Slavery in America.....	3

**European History**

Select one from list below:.....	3
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HIST	3100	European Middle Ages I .....	3
HIST	3510	European Diplomacy 1815-Present .....	3
HIST	3530	20th Century Germany.....	3
HIST	4040	Europe in the 16 <sup>th</sup> -17th Centuries .....	3
HIST	4060	Age of Absolutism .....	3
HIST	4080	Age of Revolution.....	4
HIST	4090	Europe 1850-1918.....	3
HIST	4100	Europe Since World War I .....	3
HIST	4150	Critics of Victorian Society.....	3
HIST	4170	British Empire: For and Against .....	3
HIST	4620	Central Europe .....	3
HIST	4660	Imperial Russia 1700-1917.....	3
HIST	4760	Colonial & Imperialism in the 19th-20th Centuries .....	3

**Non-Western Studies**

Select one from the list below: .....	3
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GEPL	3120	Geography of Asia .....	3
GEPL	3220	Geography of Africa .....	3
GEPL	3300	Geography of Latin America .....	3
HIST	4470	People and Politics in Mexico.....	3
HIST	3550	History/Middle East Since 1500.....	3
HIST	3630	Africa to 1800 .....	3
HIST	4720	Modern Chinese History.....	3
HIST	4740	Modern Japanese History.....	3

**Dual Degree: B.Ed. and B.A.**

Students wishing to earn the bachelor of arts degree with a major in general studies may do so by completing all the requirements outlined above and, in addition, complete the following:

**Additional General Education**

Foreign Language 1110 Elementary I.....	4
For. Lang. 1120 or 1500 Elem II/Review .....	4
Foreign Language 2140 Intermediate I.....	3
Foreign Language 2150 Intermediate II .....	3
Humanities/Fine Arts .....	3-9
Natural Science .....	0-9
Social Science .....	0-9

Students are required to complete **two** "Writing Across the Curriculum" courses, **at least one** of which must be completed within the **student's licensure areas**, and **no more than one** may be taken to fulfill the **University core curriculum**. These courses are designated by the letters 'WAC' appearing after the course title in the Schedule of Classes, e.g., GEPL 2030 Cultural Geography - WAC.

Please visit your adviser in the College of Arts and Sciences; only he/she can approve the course work necessary to fulfill the requirements for the bachelor of arts degree.

**Adolescent & Young Adult Education**

The adolescent program prepares students to teach junior high and high school students, grades 7-12, in a single academic area—Integrated Language Arts, Integrated Mathematics, Integrated Social Studies or one of nine science options.

All adolescent and young adult licensure programs are dual degree. They lead both to the bachelor of education degree and also to the appropriate bachelor of arts or bachelor of science degree:

- Integrated Language Arts - B.Ed. and B.A., English with a concentration in general literature or writing
- Integrated Mathematics - B.Ed. and B.A., mathematics
- Integrated Social Studies - B.Ed. and B.A., history
- Sciences - B. Ed. and B.S., biology, chemistry, geology or physics

**University Core and General Education: 33 hours****Additional General Education: 23-29 hours**

Foreign Language	1110	Elementary I.....	4
For. Lang.	1120 or 1500	Elementary II/Review.....	4
Foreign Language	2140	Intermediate I .....	3
Foreign Language	2150	Intermediate II .....	3
Humanities/Fine Arts .....			3-9
Natural Science .....			0-3
Social Science .....			3

**WAC: 6 hours (Select two courses)**

Students are required to complete two "Writing Across the Curriculum" (WAC) courses. Courses vary from year-to-year and are listed on the College of Arts and Sciences Web site. Courses can also be selected in consultation with the Arts and Sciences adviser. One course **must** be from your content area and the other course either in content or out.

**Preprofessional Education: 5 hours**

CI	1910	Linking Seminar I: Comm Skills in the Discipline .....	1
CI	2970	Linking Seminar II: School Environ/Phil of Teaching .....	1

## 114 College of Education

CI	3900	Linking Seminar III: Discip Content and Sec Curriculum .....	1
CIET	2020	Multi-Media for Educational Environment .....	2

### Integrated Language Arts

#### Professional Education: 46 hours

CI	3110	Secondary Field Experience I (coreq. with CI 3240) ....	2
CI	3240	Best Prac Mid Level Teaching for ADOL majors .....	3
CI	4130	Teaching in Urban Communities .....	3
CI	4150	Special Methods: Secondary Engl. ....	3
CI	4190	Secondary Field Experience II (coreq. with CI 4150) ...	3
CI	4320	Literature for Young Adults .....	3
CI	4440	Issues in Ling, Writing & Grammar .....	3
CI	4490	Content Area Reading .....	3
CI	4910	Sem.:Reforms, Res.& Crit. Lit.....	3
CI	4930	Internship (corequisite with CI 4910).....	12
EDP	3250	Adol. Development/ Learning Theory .....	3
SPED	4020	Special Educ & Inclusion Sec. Ed. ....	2
TSOC	3000	Socio-Cultural Analysis .....	3

#### Content Area with General Literature

##### Concentration: 47-48 hours

ENGL	2010	Advanced Composition.....	3
ENGL	3150	Linguistic Principles .....	3
ENGL	3750	Women and Literature.....	3
ENGL	3770	World Literature & Cultures .....	3
ENGL	3790	Critical Approaches to Literature - WAC.....	4
ENGL	3810	Shakespeare I .....	3
ENGL	4090	Current Writing Theory.....	3
ENGL	4100	The History of English.....	3
ENGL	4400 – 4460	One Brit. Literature before 1800.....	3
ENGL	4500 – 4540	One Brit. Literature after 1800.....	3
ENGL	4600 – 4680	One American Literature.....	3
ENGL	4800 – 4860	One Single Author.....	3
COMM	3830	Debate & Forensics.....	4
COMM	4110	High School Publications.....	3
Choose one of the following: COMM 2100, 2150, 2600, 3610 .....			3-4

#### Writing Concentration Option: 6 additional hours

Choose two: ENGL 3010, 3050, 3800, 4030, 4070, 4080 .....	6
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### Integrated Mathematics

#### Professional Education: 46 hours

CI	3110	Secondary Field Experience I (coreq. with CI 3240) ....	2
CI	3240	Best Prac Mid Level Teaching for ADOL majors .....	3
CI	4130	Teaching in Urban Communities .....	3
CI	4160	Special Methods: Mathematics .....	3
CI	4190	Secondary Field Experience II (coreq. with CI 4160) ...	3
CI	4490	Content Area Reading .....	3
CI	4550	Teaching Problem Solving in Math .....	3
CI	4570	Curriculum Issues in Math.....	3
CI	4910	Sem.:Reforms, Res.& Crit Lit .....	3
CI	4930	Internship (corequisite with CI 4910).....	12
EDP	3250	Adol Development/ Learning Theory .....	3
SPED	4020	Special Educ & Inclusion Sec. Ed. ....	2
TSOC	3000	Socio-Cultural Analysis .....	3

#### Mathematics Content: 41-42 hours

MATH	1780	Intro to Maple .....	1
MATH	1840	Calculus II for Educators <b>or</b>	
MATH	1860	Calculus II <b>or</b>	
MATH	1880	Calculus II with Maple.....	4
MATH	1890	Linear Algebra .....	3

MATH	2850	Elem Multivar Calc III <b>or</b>	
MATH	2880	Elem Multivar Calc III with Maple .....	4
MATH	3190	Introduction to Analysis-WAC.....	3
MATH	3200	Number Theory .....	3
MATH	3320	Intro Abstract Algebra <b>or</b>	
MATH	4330	Abstract Algebra I .....	3
MATH	3440	Geometry I .....	3
MATH	3450	Geometry II .....	3
MATH	3510	History of Mathematics.....	3
MATH	3610	Statistical Methods <b>or</b>	
MATH	4680	Theory of Probability.....	3
MATH	3860	Differential Equations <b>or</b>	
MATH	3880	Differential Equations with Maple.....	3
MATH	4300	Linear Algebra I <b>or</b>	
MATH	4350	Applied Linear Algebra .....	3
MATH	4380	Discrete Mathematics.....	3

NOTE: At least three mathematics courses must be taken at the 4000 level. At least one class must be taken with Maple or take MATH 1780 separately.

### Integrated Social Studies

#### Professional Education: 43 hours

CI	3110	Secondary Field Experience I (coreq. with CI 3240) ....	2
CI	3240	Best Prac Mid Level Teaching for ADOL majors .....	3
CI	4130	Teaching in Urban Communities .....	3
CI	4180	Teaching Integrated Social Studies .....	3
CI	4190	Secondary Field Experience II (coreq. with CI 4180) ...	3
CI	4490	Content Area Reading .....	3
CI	4720	Issues in Social Studies .....	3
CI	4910	Sem.:Reforms, Res. & Crit. Lit.....	3
CI	4930	Internship (corequisite with CI 4910).....	12
EDP	3250	Adol Development/Learning Theory .....	3
SPED	4020	Special Educ & Inclusion Sec. Ed. ....	2
TSOC	3000	Socio-Cultural Analysis .....	3

#### Social Studies Content: 33 hours

HIST	2000	Methods in Historical Study -WAC .....	4
HIST	3780	American Foreign Relations .....	3
HIST	4680	20th Century Russia .....	3
<b>Select two: .....</b>			<b>6</b>
HIST	3260	African-Amer. History from 1865 .....	3
HIST	3280	City & Metropolis in Modern America.....	3
HIST	3290	Ohio History.....	3
HIST	3310	Ethnic America.....	3
HIST	3410	Amer. Soc. & Cult. History 1850-Present.....	3
HIST	3600	Women in American History .....	3
HIST	4200	Colonial Foundations of the U.S.....	3
HIST	4230	The Early Republic .....	3
<b>Select three: .....</b>			<b>9</b>
HIST	3100	European Middle Ages.....	3
HIST	3530	20th Century Germany.....	3
HIST	4040	Europe in 16th - 17th Centuries .....	3
HIST	4080	Age of Revolution .....	4
HIST	4090	Europe, 1850-1918.....	3
HIST	4100	Europe Since World War I .....	3
HIST	4150	Critics of Victorian Society.....	3
HIST	4170	British Empire: For and Against.....	3
HIST	4500	European Diplomacy 1648-1815 .....	3
HIST	4510	European Diplomacy 1815-Present .....	3
HIST	4620	Central Europe .....	3
HIST	4760	Colonialism & Imp. in 19 <sup>th</sup> -20 <sup>th</sup> Centuries .....	3
<b>Select three: .....</b>			<b>9</b>
HIST	3210	Modern Latin America .....	3
HIST	3550	Hist/Mid East Since 1500 .....	3
HIST	3630	Africa to 1800 .....	3
HIST	3640	Africa Since 1800 .....	3

HIST	4470	People and Politics in Mexico.....	3
HIST	4720	Modern Chinese History.....	3
HIST	4740	Modern Japanese History.....	3

### Related Social Sciences Content: 24 hours

ECON	1150	Macroeconomics.....	3
ECON	1200	Microeconomics.....	3
PSC	1200	American National Govt.....	3
PSC	1710	Current International Problems <b>or</b>	
PSC	2620	Comparative Politics: Continental Europe.....	3
PSC	3250	Public Opinion <b>or</b>	
PSC	3420	Principles of Public Administration.....	3
***ANTH		.....	3
***GEPL		.....	3
***SOC		.....	3
***		Select from 3000-4000 level	

### Sciences

Students should select one option from the nine listed.

### Professional Education: 43 hours

CI	3110	Secondary Field Experience I (coreq. with CI 3240).....	2
CI	3240	Best Prac Mid Level Teaching for ADOL majors.....	3
CI	4130	Teaching in Urban Communities.....	3
CI	4170	Special Methods: Sciences.....	3
CI	4190	Secondary Field Experience II (coreq. with CI 4170).....	3
CI	4490	Content Area Reading.....	3
CI	4680	Issues: Sec Sciences.....	3
CI	4910	Seminar: Reforms, Res. & Crit Lit.....	3
CI	4930	Internship (corequisite with CI 4910).....	12
EDP	3250	Adol Development/ Learning Theory.....	3
SPED	4020	Special Educ & Inclusion Sec. Ed.....	2
TSOC	3000	Socio-Cultural Analysis.....	3

### Earth Science Education Option

#### Science Content

#### Geology Content: ..... 39 hours

EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1
EEES	2100	Fundamentals of Geology.....	4
EEES	2210	Mineralogy.....	4
EEES	2220	Megascopic Petrology.....	3
EEES	2500	Computer Appl in Enviro Sci.....	1
EEES	3200	Stratigraphy.....	3
EEES	3320	Structural Geology.....	3
EEES	4000	Invertebrate Paleontology.....	3
EEES	4010	Microscopic Petrology.....	3
EEES	4610	Geophysics-WAC.....	3
EEES	4650	Geology Field Course.....	6
EEES	4920	Senior Geology Seminar.....	2

#### Related Science/Math Content: ..... 35-36 hours

CHEM	1230	Gen Chem I.....	4
CHEM	1240	Gen Chem II.....	4
CHEM	1280	Gen Chem Lab I.....	1
GEPL	2980	Special Topic: Oceanography.....	3
GEPL	3540	Weather and Climate.....	3
GEPL	3550	Physical Geography.....	3
PHYS	2070	General Physics I <b>and</b>	
PHYS	2080	General Physics II	
		<b>or</b>	
PHYS	2130	Physics for Science and Engineering majors I <b>and</b>	
PHYS	2140	Physics for Science and Engineering majors II.....	10
MATH	1750	Math for Life Sciences I (core) <b>and</b>	
MATH	1760	Math for Life Sciences II	
		<b>or</b>	
MATH	1830	Calculus I for Educators <b>and</b>	

MATH	1840	Calculus II for Educators	
		<b>or</b>	
MATH	1850	Calculus I (core) <b>and</b>	
MATH	1860	Calculus II.....	7-8

#### Additional Science Content: ..... 9 hours

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
BIOL	2150	Fund of Life Science I <b>and</b>	
BIOL	2160	Fund of Life Science Lab I	
		<b>or</b>	
BIOL	2170	Fund of Life Science II <b>and</b>	
BIOL	2180	Fund of Life Science Lab II.....	5

### Life Science Education Option

#### Science Content

#### Biology Content: ..... 39-41 hours

BIOL	2150	Fund of Life Science I.....	4
BIOL	2160	Fund of Life Science Lab I.....	1
BIOL	2170	Fund of Life Science II.....	4
BIOL	2180	Fund of Life Science Lab II.....	1
BIOL	3010	Molecular Genetics.....	3
BIOL	3030	Cell Biology.....	3
EEES	3050	Ecology.....	3
BIOL	3070	Human Physiology.....	3
BIOL	4700	Biology Lit & Communications-WAC.....	3

#### Select two of the following:

BIOL	3020, 3040, 4040, 4060, 4080, 4320, 4640, 4690 <b>or</b> EEES 3060.....	2-4
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#### Select one of the following:

BIOL	3410	Plant Physiology <b>or</b>	
BIOL	3420	Domesticated Plants.....	3

#### Select 9 hours of biology courses level 3000-4000

BIOL	3000-4000.....	9
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#### Related Science/Math Content: 40-41 hours

CHEM	1230	General Chemistry I.....	4
CHEM	1240	General Chemistry II.....	4
CHEM	1280	General Chemistry Lab I.....	1
CHEM	1290	General Chemistry Lab II.....	1
CHEM	2410	Organic Chemistry I.....	3
CHEM	2420	Organic Chemistry II.....	3
CHEM	2460	Organic Chem Lab.....	1
CHEM	2470	Organic Chem Lab II <b>or</b>	
CHEM	2490	Syn. and Iden. of Organic Comp. ....	1-2
CHEM	3510	Biochemistry I.....	3
PHYS	2070	General Physics I <b>and</b>	
PHYS	2080	General Physics II	
		<b>or</b>	
PHYS	2130	Physics for Science and Engr. Majors I <b>and</b>	
PHYS	2140	Physics for Science and Engr. Majors II.....	10
MATH	1750	Math for Life Sciences I (core) <b>and</b>	
MATH	1760	Math for Life Sciences II	

		<b>or</b>	
MATH	1830	Calculus I for Educators <b>and</b>	
MATH	1840	Calculus II for Educators	
		<b>or</b>	
MATH	1850	Calculus I (core) <b>and</b>	
MATH	1860	Calculus II.....	7-8

#### Additional Science Content: 8 hours

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1

## Life Science/Chemistry Option

### Science Content

#### Biology Content: 39-41 hours

BIOL 2150	Fund of Life Science I.....	4
BIOL 2160	Fund of Life Science Lab I.....	1
BIOL 2170	Fund of Life Science II.....	4
BIOL 2180	Fund of Life Science Lab II.....	1
BIOL 3010	Molecular Genetics.....	3
BIOL 3030	Cell Biology.....	3
EEES 3050	Ecology.....	3
BIOL 3070	Human Physiology.....	3
BIOL 4700	Biology Lit. & Communications-WAC.....	3

#### Select two of the following:

BIOL 3020, 3040, 4040, 4060, 4080, 4320, 4640, 4690 or EEES-3060.2-4		
BIOL 3410	Plant Physiology <b>or</b>	
BIOL 3420	Domesticated Plants.....	3

#### Select 9 hours of biology courses level 3000-4000:

BIOL 3000-4000.....		9
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#### Chemistry Requirements: 24 hours

CHEM 1230	General Chemistry I.....	4
CHEM 1240	General Chemistry II.....	4
CHEM 1280	General Chemistry Lab I.....	1
CHEM 1290	General Chemistry Lab II.....	1
CHEM 2410	Organic Chemistry I.....	3
CHEM 2420	Organic Chemistry II.....	3
CHEM 2460	Organic Chem Lab I.....	1
CHEM 2470	Organic Chem Lab II.....	1
CHEM 3510	Biochemistry I.....	3
CHEM 3710	Phys. Chem. for Biosciences I.....	3

#### Related Science/Math Content: 17-18 hours

PHYS 2070	General Physics I <b>and</b>	
PHYS 2080	General Physics II	
	<b>or</b>	
PHYS 2130	Physics for Science and Engr. Majors I <b>and</b>	
PHYS 2140	Physics for Science and Engr. Majors II.....	10
MATH 1750	Math for Life Sciences I (core) <b>and</b>	
MATH 1760	Math for Life Sciences II	
	<b>or</b>	
MATH 1830	Calculus I for Educators <b>and</b>	
MATH 1840	Calculus II for Educators	
	<b>or</b>	
MATH 1850	Calculus I (core) <b>and</b>	
MATH 1860	Calculus II.....	7-8

#### Additional Science Content: 8 hours

ASTR 1010	Survey of Astronomy.....	3
ASTR 2050	Astronomy Lab.....	1
EEES 1010	Physical Geology.....	3
EEES 1020	Physical Geology Lab.....	1

## Life Science/Earth Science Option

### Science Content

#### Biology Content: 39-41 hours

BIOL 2150	Fund of Life Science I.....	4
BIOL 2160	Fund of Life Science Lab I.....	1
BIOL 2170	Fund of Life Science II.....	4
BIOL 2180	Fund of Life Science Lab II.....	1
BIOL 3010	Molecular Genetics.....	3
BIOL 3030	Cell Biology.....	3
EEES 3050	Ecology.....	3
BIOL 3070	Human Physiology.....	3
BIOL 4700	Biology Lit & Communications -WAC.....	3

#### Select two of the following:

BIOL 3020, 3040, 4040, 4060, 4080, 4320, 4640, 4690 or EEES 3060.....	2-4	
BIOL 3410	Plant Physiology <b>or</b>	

BIOL 3420	Domesticated Plants.....	3
<b>Select 9 hours of biology courses level 3000-4000</b>		
BIOL 3000-4000.....		9

#### Geology Content: 27 hours

EEES 1010	Physical Geology.....	3
EEES 1020	Physical Geology Lab.....	1
EEES 2210	Mineralogy.....	4
EEES 2220	Megascopic Petrology.....	3
EEES 2500	Computer Appl. in Enviro. Science.....	1
EEES 3200	Stratigraphy.....	3
EEES 3320	Structural Geology.....	3

#### Select 9 hours from the following:

EEES 3320, 4010, 4220, 4240, 4250, 4430, 4450 or 4650.....		9
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#### Related Science/Math Content: 41-42 hours

CHEM 1230	General Chemistry I.....	4
CHEM 1240	General Chemistry II.....	4
CHEM 1280	General Chemistry Lab I.....	1
CHEM 1290	General Chemistry Lab II.....	1
CHEM 2410	Organic Chemistry I.....	3
CHEM 2420	Organic Chemistry II.....	3
CHEM 2460	Organic Chem Lab I.....	1
CHEM 2470	Organic Chem Lab II.....	1
GEPL 3540	Weather and Climate.....	3
GEPL 3550	Physical Geography.....	3
PHYS 2070	General Physics I <b>and</b>	
PHYS 2080	General Physics II	
	<b>or</b>	
PHYS 2130	Physics for Science and Engr. Majors I <b>and</b>	
PHYS 2140	Physics for Science and Engr. Majors II.....	10
MATH 1750	Math for Life Sciences I (core) <b>and</b>	
MATH 1760	Math for Life Sciences II	
	<b>or</b>	
MATH 1830	Calculus I for Educators <b>and</b>	
MATH 1840	Calculus II for Educators	
	<b>or</b>	
MATH 1850	Calculus I (core) <b>and</b>	
MATH 1860	Calculus II.....	7-8

## Life Science/Physics Education Option

### Science Content

#### Biology Content: 39-41 hours

BIOL 2150	Fund of Life Science I.....	4
BIOL 2160	Fund of Life Science Lab I.....	1
BIOL 2170	Fund of Life Science II.....	4
BIOL 2180	Fund of Life Science Lab II.....	1
BIOL 3010	Molecular Genetics.....	3
BIOL 3030	Cell Biology.....	3
EEES 3050	Ecology.....	3
BIOL 3070	Human Physiology.....	3
BIOL 4700	Biology Lit & Communications -WAC.....	3

#### Select two of the following:

BIOL 3020, 3040, 4040, 4060, 4080, 4320, 4640, 4690 or EEES 3060.2-4		
BIOL 3410	Plant Physiology <b>or</b>	
BIOL 3420	Domesticated Plants.....	3

#### Select 9 hours of biology courses level 3000-4000

BIOL 3000-4000.....		9
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#### Physics Content: 26 hours

PHYS 1910	Frontiers of Physics & Astronomy.....	3
PHYS 2100	Physics w/ Calculus (prereq. MATH 1860).....	2
PHYS 2130	Physics for Sci & Eng Majors I.....	5
PHYS 2140	Physics for Sci & Eng Majors II.....	5
PHYS 3180	Intermediate Lab.....	2
PHYS 3310	Quantum Physics I.....	3
PHYS 3320	Quantum Physics II.....	3
PHYS 4580	Molecular/Cond Matter Lab <b>or</b>	
PHYS 4780	Atomic/Nuclear Phys Lab.....	3

**Related Science/Math Content: 35 hours**

CHEM	1230	General Chemistry I.....	4
CHEM	1240	General Chemistry II.....	4
CHEM	1280	General Chemistry Lab I.....	1
CHEM	1290	General Chemistry Lab II.....	1
CHEM	2410	Organic Chemistry I.....	3
CHEM	2420	Organic Chemistry II.....	3
CHEM	2460	Organic Chem Lab I.....	1
MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I (core).....	4
MATH	1840	Calculus II for Educators or	
MATH	1860	Calculus II.....	4
MATH	1890	Elem Linear Algebra.....	3
MATH	2850	Calculus III.....	4
MATH	3860	Elem. Differential Eq. (coreq. PHYS 3310).....	3

**Additional Science Content: 8 hours**

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1

**Earth Science/Chemistry Education Option****Science Content****Geology Content: 39 hours**

EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1
EEES	2100	Fundamentals of Geology.....	4
EEES	2210	Mineralogy.....	4
EEES	2220	Megascopic Petrology.....	3
EEES	2500	Computer Appl in Enviro Sci.....	1
EEES	3200	Stratigraphy.....	3
EEES	3320	Structural Geology.....	3
EEES	4000	Invertebrate Paleontology.....	3
EEES	4010	Microscopic Petrology.....	3
EEES	4610	Geophysics-WAC.....	3
EEES	4650	Geology Field Course.....	6
EEES	4920	Senior Geology Seminar.....	2

**Chemistry Requirements: 23 hours**

CHEM	1230	General Chemistry I.....	4
CHEM	1240	General Chemistry II.....	4
CHEM	1280	General Chemistry Lab I.....	1
CHEM	1290	General Chemistry Lab II.....	1
CHEM	2410	Organic Chemistry I.....	3
CHEM	2420	Organic Chemistry II.....	3
CHEM	2460	Organic Chem Lab I.....	1
CHEM	2470	Organic Chem Lab II.....	1
CHEM	3730	Phys Chem I.....	3
CHEM	3860	Advanced Lab I.....	2

**Related Science/Math Content: 28 hours**

PHYS	2130	Physics for Science and Engr. Majors I and	
PHYS	2140	Physics for Science and Engr. Majors II.....	10
GEPL	3540	Weather and Climate.....	3
GEPL	3550	Physical Geography.....	3
MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I (core).....	4
MATH	1840	Calculus II for Educators or	
MATH	1860	Calculus II.....	4
MATH	2850	Calculus III.....	4

**Additional Science Content: 9 hours**

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
BIOL	2150	Fund of Life Science I and	
BIOL	2160	Fund of Life Science Lab I	
		<b>or</b>	
BIOL	2170	Fund of Life Science II and	
BIOL	2180	Fund of Life Science Lab II.....	5

**Earth Science/Physics Education Option****Science Content****Geology Content: 39 hours**

EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1
EEES	2100	Fundamentals of Geology.....	4
EEES	2210	Mineralogy.....	4
EEES	2220	Megascopic Petrology.....	3
EEES	2500	Computer Appl. in Enviro. Science.....	1
EEES	3200	Stratigraphy.....	3
EEES	3320	Structural Geology.....	3
EEES	4000	Invertebrate Paleontology.....	3
EEES	4010	Microscopic Petrology.....	3
EEES	4610	Geophysics-WAC.....	3
EEES	4650	Geology Field Course.....	6
EEES	4920	Senior Geology Seminar.....	2

**Physics Content: 26 hours**

PHYS	1910	Frontiers of Physics and Astronomy.....	3
PHYS	2100	Physics w/ Calculus (prereq. MATH 1860).....	2
PHYS	2130	Physics for Sci & Eng Majors I.....	5
PHYS	2140	Physics for Sci & Eng Majors II.....	5
PHYS	3180	Intermediate Lab.....	2
PHYS	3310	Quantum Physics I.....	3
PHYS	3320	Quantum Physics II.....	3
PHYS	4580	Molecular/Cond Matter Lab <b>or</b>	
PHYS	4780	Atomic/Nuclear Phys Lab.....	3

**Related Science/Math Content: 32 hours**

CHEM	1230	Gen. Chemistry I.....	4
CHEM	1240	Gen. Chemistry II.....	4
CHEM	1280	Gen. Chem Lab I.....	1
CHEM	1290	Gen. Chem Lab II.....	1
GEPL	3540	Weather and Climate.....	3
GEPL	3550	Physical Geography.....	1
MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I (core).....	4
MATH	1840	Calculus II for Educators or	
MATH	1860	Calculus II.....	4
MATH	1890	Elementary Linear Algebra.....	3
MATH	2850	Calculus III.....	4
MATH	3860	Elem. Diff. Eq. (coreq. PHYS 3310).....	3

**Additional Science Content: 9 hours**

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
BIOL	2150	Fund of Life Science I and	
BIOL	2160	Fund of Life Science Lab I	
		<b>or</b>	
BIOL	2170	Fund of Life Science II and	
BIOL	2180	Fund of Life Science Lab II.....	5

**Physics/Chemistry Education Option****Science Content****Physics Content: 38 hours**

PHYS	1910	Frontiers of Physics and Astronomy.....	3
PHYS	2130	Physics for Science and Eng. Majors I.....	5
PHYS	2140	Physics for Science and Eng Majors II.....	5
PHYS	2100	Physics w/Calculus (prereq. MATH 1860).....	2
PHYS	3180	Intermediate Lab.....	2
PHYS	3310	Quantum Physics I.....	3
PHYS	3320	Quantum Physics II.....	3
PHYS	3410	Thermal Physics.....	3
PHYS	4210	Theoretical Mechanics.....	3
PHYS	4230	Electricity/Magnetism I.....	3
PHYS	4310	Quantum Mechanics.....	3
PHYS	4580	Molecular/Cond Matter Lab <b>or</b>	
PHYS	4780	Atomic/Nuclear Phys Lab.....	3

**Chemistry Content: 23 hours**

CHEM	1230	General Chemistry I.....	4
CHEM	1240	General Chemistry II.....	4
CHEM	1280	General Chemistry Lab I.....	1
CHEM	1290	General Chemistry Lab II.....	1
CHEM	2410	Organic Chemistry I.....	3
CHEM	2420	Organic Chemistry II.....	3
CHEM	2460	Organic Chemistry Lab I.....	1
CHEM	2470	Organic Chemistry Lab II.....	1
CHEM	3730	Physical Chem I.....	3
CHEM	3860	Advanced Lab I.....	2

**Related Math Content: 18 hours**

MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I (core).....	4
MATH	1840	Calculus II for Educators or	
MATH	1860	Calculus II.....	4
MATH	1890	Elem. Linear Algebra.....	3
MATH	2850	Calculus III.....	4
MATH	3860	Elem. Diff. Eq. (coreq. PHYS 3310).....	3

**Additional Science Content: 13 hours**

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
BIOL	2150	Fund of Life Science I <b>and</b>	
BIOL	2160	Fund of Life Science Lab I	
		<b>or</b>	
BIOL	2170	Fund of Life Science II <b>and</b>	
BIOL	2180	Fund of Life Sciences Lab II.....	5
EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1

**Chemistry/Physics Education Option**

**Science Content**

**Chemistry Content: 44 hours**

CHEM	1230	General Chemistry I.....	4
CHEM	1240	General Chemistry II.....	4
CHEM	1280	General Chemistry Lab I.....	1
CHEM	1290	General Chemistry Lab II.....	1
CHEM	2410	Organic Chemistry I.....	3
CHEM	2420	Organic Chemistry II.....	3
CHEM	2480	Org. Separations and Elem. Synthesis.....	2
CHEM	2490	Synth & Iden of Org Compounds.....	2
CHEM	3310	Analytical Chemistry.....	2
CHEM	3360	Analytical Chemistry Lab.....	2
CHEM	3510	Biochemistry I.....	3
CHEM	3610	Inorganic Chemistry.....	3
CHEM	3730	Physical Chemistry I.....	3
CHEM	3740	Physical Chemistry II.....	3
CHEM	3860	Advanced Lab.....	2
CHEM	3870	Advanced Lab II.....	2
CHEM	4300	Instrumental Analysis.....	2
CHEM	4880	Advanced Lab III.....	2

**Physics Content: 26 hours**

PHYS	1910	Frontiers of Physics and Astronomy.....	3
PHYS	2130	Physics for Science and Eng. Majors I.....	5
PHYS	2140	Physics for Science and Eng Majors II.....	5
PHYS	2100	Physics w/ Calculus (prereq. MATH 1860).....	2
PHYS	3180	Intermediate Lab.....	2
PHYS	3310	Quantum Physics I.....	3
PHYS	3320	Quantum Physics II.....	3
PHYS	4580	Molecular/Cond Matter Lab <b>or</b>	
PHYS	4780	Atomic/Nuclear Phys Lab.....	3

**Related Math Content: 18 hours**

MATH	1830	Calculus I for Educators or	
MATH	1850	Calculus I (core).....	4
MATH	1840	Calculus II for Educators or	

MATH	1860	Calculus II.....	4
MATH	1890	Elem. Linear Algebra.....	3
MATH	2850	Calculus III.....	4
MATH	3860	Elem. Diff. Eq. (coreq. PHYS 3310).....	3

**Additional Science Content: 13 hours**

ASTR	1010	Survey of Astronomy.....	3
ASTR	2050	Astronomy Lab.....	1
BIOL	2150	Fund of Life Science I <b>and</b>	
BIOL	2160	Fund of Life Science Lab I	
		<b>or</b>	
BIOL	2170	Fund of Life Science II <b>and</b>	
BIOL	2180	Fund of Life Science Lab II.....	5
EEES	1010	Physical Geology.....	3
EEES	1020	Physical Geology Lab.....	1

**Multi-Age Education**

**Multi-Age Visual Arts Education**

Programs in art education and music education are housed in the College of Arts and Sciences. The art program prepares students for teaching art at all levels (ages 3-21/grades PreK-12)

**University Core and General Education: 27-33 hours**

**Preprofessional Education: 14 hours**

AED	3100	Art Ed for Pre Primary-Primary.....	3
AED	4140	Art Ed for the Special Child.....	3
CIET	2020	Multi-Media for Educational Envir.....	2
EDP	3200	Applied Psych for Teachers.....	3
EDP	3230	Human Develop for K-12 Educators <b>or</b>	
EDP	4220	Adoles. Behavior and Dev.....	3

**Professional Education: 32 hours**

AED	3500	Innovations in Art Ed.....	3
AED	4200	Computer Graphics in Art Ed <b>or</b>	
AED	4450	Curriculum in Art Ed.....	3
AED	4900	Student Teaching Seminar.....	2
AED	4930	Student Teaching.....	12
AED	4950	Innovations in Art Education.....	3
CI	4490	Content Area Reading.....	3
SPED	4020	Students with Disabilities.....	3
TSOC	3000	Socio-Cultural Analysis.....	3

**Art Foundations Core: 13 hours**

ARS	1000	Orientation for Art/Art Ed majors.....	1
ART	1080	Foundations of Drawing I.....	3
ART	2050	Foundations 2-D Design.....	3
ART	2060	Foundations 3-D Design.....	3
ART	2080	Drawing II.....	3

**Studio Art: 18 hours**

ART	2150	Digital Art I.....	3
ART	2230	Aspects of Printmaking.....	3
ART	2330	Oil Painting <b>or</b>	
ART	3380	Acrylic Painting.....	3
ART	2430	Foundations of Sculpture.....	3
ART	2530	Ceramics I.....	3
ART	2810	Art Photography <b>or</b>	
ART	3150	Digital Photography (prereq. ART 2150, 2810).....	3

**Art History Core: 12 hours**

ARTH	2000	Aspects of Ancient Art <b>or</b>	
ARTH	3110	Topics in Ancient Art.....	3
ARTH	2040	Renaissance and Baroque <b>or</b>	
ARTH	2/4980	Topics in Renaissance/Baroque Art.....	3

ARTH	2080	History of Modern Art <b>or</b>	
ARTH	2/4980	Topics in Modern Art.....	3
<b>Choose one non-Western course from below: .....</b>			<b>3</b>
ARTH	2100	Asian Art.....	3
ARTH	2200	Ethnographic Art.....	3
ARTH	3250	Topics in Asian Art.....	3
ARTH	3270	Topics in Ethnographic Art.....	3
ARTH	3300	African Art.....	3
ARTH	3350	Ancient Art of the Americas.....	3

### Area of Concentration: 12-16 hours

Choose one of the following concentrations:

- Art History Concentration
- Arts Concentration
- Cyber Arts Concentration
- Studio Concentration
- Therapeutic Arts Concentration

### Cyber Arts Concentration: 12 hours

ART	3150	Digital Photography.....	3
ART	3160	Digital Drawing.....	3
ART	4320	Interactive Multi-Media.....	3
ART	4410	Advanced Topics in Digital Art.....	3

### Therapeutic Arts Concentration: 15 hours

AED	4240	Adaptive Methods/Therapeutic Art for Children.....	3
AED	4280	Therapeutic Art for Adults.....	3
AED	4300	Media and Methods.....	3
AED	4560	Intro to Therapeutic Art.....	3
AED	4940	Internship in Therapeutic Art.....	3

### Multi-Age Music Education

The program in music prepares students for teaching music at all levels (ages 3-21/grades PreK-12).

### University Core and General Education: 30 hours minimum

(Including MUS 2220 or 2250)

### Preprofessional Education 7 hours minimum

MUS	1000:004	Orientation.....	1
EDP	3200	Applied Psychology.....	3
EDP	3230	Human Development.....	3

### Professional Education: 28 hours minimum

CI	4490	Content Area Reading.....	3
MED	3000	Foundations of Music Education.....	2
MED	3310	Music for Children.....	3
SPED	4020	Student with Disabilities.....	2
TSOC	3000	Socio-Cultural Analysis.....	3
MED	4900	Student Teaching Seminar.....	1
MED	4930	Student Teaching (Elementary 6 hours/Secondary 6 hours).....	12

### Content Area: 45 hours

MUS	1570	Piano/Music Majors I.....	1*
MUS	1580	Piano/Music Majors II.....	1*
MUS	1610	Music Theory/Ear Trng I.....	4
MUS	1620	Music Theory/Ear Trng II.....	4
MUS	2410	Music History & Lit I: World Music & Jazz.....	3
MUS	2570	Piano Class/Music Majors III.....	1*
MUS	2610	Music Theory & Ear Trng III.....	4
MUS	2620	Music Theory & Ear Trng IV.....	4
MUS	2800	Applied Music.....	8
MUS	3410	Music History & Lit II.....	3
MUS	3420	Music History & Lit III.....	3
MUS	3500	Conducting.....	3**
MUS	4800	Applied Music.....	6

Please note: All majors must:

- a) perform a senior recital (half or full) at a minimum proficiency of level 6;
- b) attend 16 non-departmental concerts/recitals and 64 departmental concerts/recitals; and must complete 1 credit of registration in a chamber ensemble MUS 2/3050 that does not count toward graduation; and
- c) perform during MUS 1000, 6 times (minimum 3 as soloist) prior to senior recital hearing.

### Cluster

Choose one cluster from choral or instrumental.

### Instrumental Elective Cluster: 29 hours

MED	3300	Elem. and Sec. Sch. Instrument Meth.....	3**
MED	3320	Secondary Vocal/Music Majors.....	4**
MUS	1500	String Class.....	2**
MUS	1530	Brass Class.....	2**
MUS	1550	Woodwinds Class.....	2**
MUS	2500	Percussion Class.....	1**
MUS	3520	Instrumental Conducting.....	3**
MUS	3530	Marching Band Techniques.....	2
MUS	3630	Instrumentation.....	3

**Ensembles: Select one (4 to 5 credit hours count toward degree; however, 7 are required by the department).**

MUS	2/3010	Symphonic Band/Wind Ensemble/Marching Band or
MUS	2/3090	University Orchestra

### Choral/General Elective Cluster: 28 hours

MED	3300	Elem. and Sec. Sch. Instrument Meth.....	3**
MED	3320	Secondary Vocal/Music Majors.....	4**
MED	3330	Early Child Meth/Music Majors.....	3
MED	3340	Vocal Lit/Grds 4-12/Music Majors.....	2
MUS	1560	Instrumental Tech/Methods.....	3**
MUS	2580	Piano Class/Music Majors IV.....	1*
MUS	3510	Choral Conducting.....	3**
MUS	3550	Teaching of Singing.....	2

**Select one from the following two:**

MUS	2530	Diction for Singers <b>or</b>
MUS	2540	Diction for Singers II

**Ensembles: Select one (4 to 5 credit hours count toward degree; however, 7 are required by the department).**

MUS	2/3140	Concert Chorale <b>or</b>
MUS	2/3160	Men's Chorus <b>or</b>
MUS	2/3180	Women's Chorus

Students electing the instrumental cluster must enroll in 2 semesters of marching band; string concentration substitutes a marching band field experience.

\*If instrument concentration is keyboard, substitute 2-3 semesters of large instrumental or vocal ensemble & 1 semester of MUS 3580 Functional Piano Techniques for Piano Class I-III/IV. Must also complete 2 semesters of MUS 2/3050 Accompanying, as part of the large ensemble requirement. Students whose instrument concentration is guitar must complete 4 credits of large vocal ensemble (choral/general elective cluster) or 4 credits of large instrumental ensemble (instrumental elective cluster).

\*\* This course must be within one of a total 5 semesters' registration **or** student registers for MUS 1000:002 to complete the 5 semester requirement for participation in Lab Ensemble.

### Multi-Age Physical Education

Students who complete a physical education major will be licensed to teach physical education PreK-12.

**Physical Education: PreK-12**

**University Core and General Education: 33 hours**

**Preprofessional Education: 23 hours**

CIET	2020	Multi Media for Educ. Environment.....	2
EDP	3200	Applied Psych for Teachers .....	3
EDP	3230	Human Devel. for PreK-12 Teachers.....	3
PED	2100	Skills & Strategies I.....	3
PED	2200	Skills & Strategies II.....	3
PED	2800	Sophomore Field Experience.....	2
PED	2900	Physical Ed Linking Seminar.....	1
PED	2950	Intro to Teaching Physical Ed.....	3
TSOC	3000	Socio-Cultural Analysis .....	3

**Professional Education: 19 hours (Professional Standing Required)**

CI	4490	Content Reading in AYA, MULTI .....	3
PED	3000	Dev. Games & Activities.....	3
PED	3120	Rhythmic Activity and Dance.....	3
PED	3130	Understanding Games: Sports Concepts.....	3
PED	3740	Measure, Analysis & Eval.....	3
PED	3950	Senior Seminar.....	1
PED	4100	Design & Admin. PE/Prog.....	3

**Physical Education Methods: 9 hours (Professional Standing Required)**

PED	3100	PreK – 5 Phys Ed. (coreq. PED 3000).....	3
PED	3140	PE Methods for Middle/Adol. Levels (coreq. PED 3130).....	3
PED	3400	Adapted Physical Education.....	3

**Student Teaching: 14 hours (Professional Standing Required)**

PED	4920	Student Teaching Seminar .....	2
PED	4930	Student Teaching.....	12

**Physical Education Content Area: 24 hours**

HEAL	1500	First Aid .....	2
HEAL	2500	Personal Health.....	3
KINE	2560	Anatomy & Physiology I .....	3
KINE	2570	Anatomy & Physiology II.....	3
KINE	2960	Growth, Dev & Motor Learning.....	4
KINE	3520	Applied Exercise Physiology.....	3
KINE	3530	Applied Exercise Physiology Lab.....	1
KINE	4540	Applied Biomechanics.....	3
KINE	4550	Applied Biomechanics Lab.....	1

**Electives: 11 - 20 hours minimum**

See faculty adviser for electives.

**Important reminders:**

- You are responsible for meeting prerequisites for all course work as specified in this catalog.
- Acceptance into professional education requires a 2.7 overall GPA and a 2.7 GPA in professional education and major area of course work. All transfer work is included in the GPA calculation.
- You are responsible for fulfilling the minimum 128-hour requirement to graduate.
- The State of Ohio requires successful completion of Praxis II to be eligible for licensure upon graduation. This test should be taken prior to student teaching to allow time for processing.

**Physical Education and School Health: PreK-12**

**University Core and General Education: 33 hours**

**Preprofessional Education: 25 hours**

CIET	2020	Tech and Multi Media.....	2
EDP	3200	Applied Psych for Teachers .....	3
EDP	3230	Human Devel. for PreK-12 Teachers.....	3
HEAL	2900	Health Ed Linking Seminar .....	2
PED	2100	Skills & Strategies I.....	3
PED	2200	Skills & Strategies II.....	3
PED	2800	Sophomore Field Experience.....	2
PED	2900	Phys Ed Linking Seminar .....	1
PED	2950	Intro to Teaching Physical Ed.....	3
TSOC	3000	Socio-Cultural Analysis .....	3

**Professional Education: 22 hours (Professional Standing Required)**

CI	4490	Content Reading in AYA, MULTI .....	3
HEAL	4600	School Health Programs .....	3
PED	3000	Dev. Games & Activities.....	3
PED	3120	Rhythmic Activities .....	3
PED	3130	Understanding Sports Concepts.....	3
PED	3740	Measure, Analysis & Eval.....	3
PED	3950	Senior Seminar.....	1
PED	4100	Design & Admin PE/Prog.....	3

**Health & Physical Education Methods: 15 hours (Professional Standing Required)**

HEAL	4300	Instructional Program Hlth Ed.....	4
HEAL	4350	Field Experience .....	2
PED	3100	PreK – 5 Physical Ed Methods (coreq. PED 3000) .....	3
PED	3140	PE Methods for Middle/Adol. Levels (coreq. PED 3130) .....	3
PED	3400	Adapted Physical Education .....	3

**Student Teaching: 14 hours (Professional Standing Required)**

HEAL	4920	Student Teaching Seminar .....	2
PED	4920	Student Teaching Seminar .....	1
HEAL	4930	Student Teaching.....	6
PED	4930	Student Teaching.....	6

**Physical Education Content Area: 12 hours**

KINE	2960	Growth, Dev & Motor Lrng.....	4
KINE	3520	Applied Exercise Phys.....	3
KINE	3530	Applied Exercise Physiology Lab.....	1
KINE	4540	Applied Biomechanics.....	3
KINE	4550	Applied Biomechanics Lab.....	1

**School Health Content: 27hours**

HEAL	2000	Foundations of HE.....	3
HEAL	2600	Mental Health.....	3
HEAL	2700	Community Health.....	3
HEAL	3300	Drug Awareness .....	3
HEAL	3600	Prev & Control of Disease .....	3
HEAL	3700	Found of Human Sexuality .....	3
HEAL	4100	Intro to Health Behavior .....	3
HEAL	4400	Health Problems of Youth.....	3
HEAL	4700	Nutrition Science .....	3



## Multi-Age Health Education

Students who complete the health education major are licensed to teach health education PreK-12. Students may complete either a second degree (e.g., B.A. in urban studies, B.Ed. in community health) or a second track (e.g., athletic training or physical education) for the B.Ed. degree. A single degree program leading to licensure in health education is also an option. Students interested in these programs should contact the department chair or the undergraduate dean in the College of Health and Human Services.

### Health Education PreK-12

#### Single Degree: B.Ed.

**NOTE:** Students interested in combinations with other majors or a dual-degree option should see the department of health professions chair in the College of Health & Human Services.

### University Core and General Education: 33 hours

#### Preprofessional Education: 13 hours

CIET	2020	Tech. and Multimedia in Educ. Env.....	2
EDP	3200	Applied Psychology for Teachers .....	3
EDP	3230	Human Development for PreK-12.....	3
HEAL	2900	Health Ed Linking Seminar .....	2
TSOC	3000	Socio-Cultural Analysis .....	3

#### Professional Education: 14 hours

CI	4490	Content Reading for AYA, MULTI.....	3
HEAL	4300	Instruc Programs in Health Education .....	4
HEAL	4350	Instruc Programs in Health: Field Exp.....	2
HEAL	4600	School Health Programs .....	3
SPED	4020	Educ Students with Disabilities within the Regular Educ Environment.....	2

#### Student Teaching: 14 hours

HEAL	4920	Seminar .....	2
HEAL	4930	Internship/ Student Teaching .....	12

#### School Health: 38 hours

HEAL	1500	First Aid .....	2
HEAL	2000	Foundations of Health Education.....	3
HEAL	2500	Personal Health .....	3
HEAL	2600	Mental Health .....	3
HEAL	2700	Community Health.....	3
HEAL	3300	Drug Awareness .....	3
HEAL	3600	Prevention & Control of Disease.....	3
HEAL	3700	Foundations of Human Sexuality.....	3
HEAL	4100	Intro to Health Behavior.....	3
HEAL	4400	Health Problems of Youth.....	3
HEAL	4700	Nutrition.....	3
KINE	2560	Anatomy & Physiology I.....	3
KINE	2570	Anatomy & Physiology II.....	3

#### Electives: 16-21 hours

### Multi-Age Foreign Languages Education

Multi-Age programs prepare students for teaching French, German or Spanish at all levels, ages 3 - 21/PreK - grade 12.

### University Core and General Education: 33 hours

#### FRENCH

#### Preprofessional Education: 10 hours

CI	1920	Intro Foreign Lang/Linking Seminar I.....	1
CI	2980	Intro Foreign Lang/Linking Seminar II .....	1
CIET	2020	Tech Multi-Media for Educ Environ .....	2
EDP	3200	Applied Psychology for Teacher .....	3
EDP	3230	Human Develop/K-12 Educators.....	3

#### WAC: 6 hours (Select two courses)

Courses vary from year to year and are listed on the College of Arts and Sciences Web site. Courses can also be selected in consultation with the Arts and Sciences adviser. Two courses **must** be from your content area.

#### Professional Education: 36-38 hours

SPED	4020	Students w/ Disabilities .....	2
TSOC	3000	Socio-Cultural Analysis .....	3

#### The following two courses are taken concurrently:

CI	4140	Teaching Methods/Foreign Languages .....	3
CI	4190	Secondary Field Experience .....	3
CI	4130	Teaching in Urban Communities .....	3
CI	4490	Content Area Reading.....	3
FREN	4160	Teaching Colloquium.....	3

#### The following three courses are taken concurrently:

CI	4430	Issues in Foreign & Sec. Lang.Teaching .....	3
CI	4900	Student Teaching Seminar .....	1-3
CI	4930	Student Teaching .....	12

#### Content Area: 25 hours

FREN	3010*	Conversation & Composition I .....	3
FREN	3020	Conversation & Composition II .....	3
FREN	3210	Survey of French Lit I .....	3
FREN	3220	Survey of French Lit II .....	3
FREN	3410	Survey of French Civilization I .....	3
FREN	3420	Survey of French Civilization II .....	3
FREN	4010	French Syntax & Stylistics I .....	3
FREN	4020	French Syntax & Stylistics II .....	4

\*First course taken in this sequence is dependent upon placement test scores, AP credit or CLEP.

#### Electives: 9 hours

FREN	4190	Study Abroad .....	1-12
FREN	3170	Business French .....	3
FREN	3400	Cross Cultural Understanding.....	3
FREN	3710	French Phonetics.....	3
FREN	4040	French Linguistics.....	3
FREN	4050	Advanced Conversation .....	3
FREN	4070	French Translation .....	3
FREN	4200	Contemp. Civ. .....	3
FREN	4230	France/European Union .....	3
FREN	4310	Medieval France/Lang & Lit .....	3
FREN	4410	French Lit/16th Century.....	3
FREN	4510	French Lit/17th Century.....	3
FREN	4610	French Lit/18th Century.....	3
FREN	4710	French Lit/19th Century I .....	3
FREN	4720	French Lit/19th Century II.....	3
FREN	4810	French/Franco Lit/20th Century I.....	3
FREN	4820	French/Franco Lit/20th Century II.....	3
FREN	4850	Le Cinema Francais .....	3
FREN	4860	La Production Feminine.....	3
FREN	4910	Honors Research in French.....	3
FREN	4950	Study/Works Author(s) .....	3
FREN	4980	Special Topics/French Studies .....	1-3

Others at discretion of the French faculty of the department of foreign languages.

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### Additional Electives: 10-12 hours

Elective hours to meet 128 hours graduation requirement.

### Additional Requirements for Dual Degree Option\*\* - B.A. in French: 20 hours

**Humanities/Fine Arts	3
**Natural Science	3
**Social Science	3
**Arts and Sciences Electives	11

\*\*In consultation with College of Arts & Sciences faculty adviser and your degree audit from the College of Arts and Sciences. You **must** obtain the signature of the faculty adviser for these courses.

### GERMAN

#### Preprofessional Education: 10 hours

CI	1920	Intro Foreign Lang/Linking Seminar I	1
CI	2980	Intro Foreign Lang/Linking Seminar II	1
CIET	2020	Tech Multi-Media for Educ Environ	2
EDP	3200	Applied Psychology for Teacher	3
EDP	3230	Human Develop/K-12 Educators	3

#### WAC: 6 hours (Select two courses)

Courses vary from year-to-year and are listed on the College of Arts and Sciences web site. Courses can also be selected in consultation with the Arts and Sciences adviser. Two courses **must** be from your content area.

#### Professional Education: 36-38 hours

SPED	4020	Students w/ Disabilities	2
TSOC	3000	Socio-Cultural Analysis	3

The following two courses are taken concurrently:

CI	4140	Teaching Methods/Foreign Languages	3
CI	4190	Secondary Field Experience	3
CI	4130	Teaching in Urban Communities	3
CI	4490	Content Area Reading	3
GERM	4160	Teaching Colloquium in German	3

The following three courses are taken concurrently:

CI	4430	Issues in Foreign & Sec. Lang. Teaching	3
CI	4900	Student Teaching Seminar	1-3
CI	4930	Student Teaching	12

#### Content Area: 22 hours

GERM	3010*	Conversation & Composition I	3
GERM	3020	Conversation & Composition II	3
GERM	3200	Survey of German Lit	3
GERM	3410	Survey of German Civilization I	3
GERM	3420	Survey of German Civilization II	3
GERM	4010	Adv Conversation & Composition I	3
GERM	4020	Adv Conversation & Composition II	4

\*First course taken in this sequence is dependent upon placement test scores, AP credit or CLEP.

#### Electives: 12 hours

GERM	4190	Study Abroad	1-12
GERM	3170	Business German	3
GERM	3180	Scientific/Tech German	3
GERM	4200	German Culture & Civ.	3
GERM	4500	History/German Language	3
GERM	4510	German Lit before 1750	3
GERM	4610	German Lit/18th Century	3
GERM	4620	German Classicism	3
GERM	4710	German Lit/19th Century	3
GERM	4720	German Romanticism	3
GERM	4810	German Lit/20th Century	3

GERM	4850	Genre Studies	3
GERM	4870	German Lit in Translation	3
GERM	4900	Studies/Works/Authors	1-3
GERM	4910	Honors Research in German	3
GERM	4980	Special Topics in German	1-3
GERM	4990	Independent Study in German	1-3

Others at discretion of the German faculty of the department of foreign languages.

### Additional Electives: 10-12 hours

Elective hours to meet 128 hour graduation requirement.

### Additional Requirements for Dual Degree Option\*\* - B.A. in German: 20 hours

**Humanities/Fine Arts	3
**Natural Science	3
**Social Science	3
**Arts and Sciences Electives	11

\*\*In consultation with College of Arts & Sciences faculty adviser and your degree audit from the College of Arts and Sciences. You **must** obtain the signature of the faculty adviser for these courses.

### SPANISH

#### Preprofessional Education: 10 hours

CI	1920	Intro Foreign Lang/Linking Seminar I	1
CI	2980	Intro Foreign Lang/Linking Seminar II	1
CIET	2020	Tech Multi-Media for Educ. Environ	2
EDP	3200	Applied Psychology for Teacher	3
EDP	3230	Human Develop/K-12 Educators	3

#### WAC: 6 hours (Select two courses)

Courses vary from year-to-year and are listed on the College of Arts and Sciences web site. Courses can also be selected in consultation with the Arts and Sciences adviser. Two courses **must** be from your content area.

#### Professional Education: 36-38 hours

SPED	4020	Students w/ Disabilities	2
TSOC	3000	Socio-Cultural Analysis	3

The following two courses are taken concurrently:

CI	4140	Teaching Methods/Foreign Languages	3
CI	4190	Secondary Field Experience	3
CI	4130	Teaching in Urban Communities	3
CI	4490	Content Area Reading	3
SPAN	4120	Teaching Colloquium in Spanish	3

The following three courses are taken concurrently:

CI	4430	Issues in Foreign & Sec. Lang. Teaching	3
CI	4900	Student Teaching Seminar	1-3
CI	4930	Student Teaching	12

#### Content Area: 22 hours

SPAN	3000	Spanish Grammar	3
SPAN	3010*	Conversation & Composition I	3
SPAN	3020	Conversation & Composition II	3
SPAN	4010	Syntax & Stylistics	4

\*First course taken in this sequence is dependent upon placement test scores, AP credit or CLEP.

#### Literature I (choose one from group below)

SPAN	3210	Survey of Spanish Lit I or	
SPAN	3270	Survey of Latin American Lit. I	3

#### Literature II (choose one from group below)

SPAN	3220	Survey of Spanish Lit II or	
SPAN	3280	Survey of Latin American Lit II	3

**Civilization (choose one from group below)**

SPAN	3410	Spanish Culture & Civilization or	
SPAN	3420	Latin American Civilization .....	3

**Electives: 12 hours****Select 12 hours from the list below**

SPAN	4190	Study Abroad .....	1-12
SPAN	3170	Business Spanish.....	3
SPAN	4000	Adv Spanish Grammar.....	3
SPAN	4060	Trans/Interp in Spanish.....	3
SPAN	4070	History/Spanish Language.....	3
SPAN	4110	Intro/Spanish Linguistics.....	4
SPAN	4150	Research Meth/Lit Theory .....	3
SPAN	4160	Latin American Novel I .....	3
SPAN	4170	Latin American Novel II.....	3
SPAN	4240	Latin American Essay .....	3
SPAN	4250	Latin American Short Story.....	3
SPAN	4260	Latin American Poetry I.....	3
SPAN	4270	Latin American Poetry II .....	3
SPAN	4310	Medieval/Renaissance Lit.....	3
SPAN	4370	Adv Business Span .....	3
SPAN	4410	Golden Age Literature.....	3
SPAN	4430	Cervantes.....	3
SPAN	4710	19th Century Spanish Novel.....	3
SPAN	4720	20th Century Spanish Novel .....	3
SPAN	4810	Modern Spanish Poetry.....	3
SPAN	4820	Modern Spanish Drama .....	3
SPAN	4830	Hispanic Cinema.....	3
SPAN	4980	Special Topics .....	3
SPAN	4910	Honors Research.....	3

Others at the discretion of the Spanish faculty of the department of foreign languages.

**Additional Electives: 10-12 hours**

Elective hours to meet 128 hour graduation requirement

**Additional Requirements for Dual Degree Option\*\* - B.A. in Spanish: 20 hours**

**Humanities/Fine Arts .....	3
**Natural Science .....	3
**Social Science.....	3
**Arts and Sciences Electives .....	11

\*\*In consultation with College of Arts & Sciences faculty adviser and your degree audit from the College of Arts and Sciences. You **must** obtain the signature of the faculty adviser for these courses.

**Career and Technical Education**

Courses in career and technical education leading to a bachelor's degree may be arranged to complete Ohio's licensure requirements for teaching in a vocational school or for teaching in a technical college, business and industry. Each prospective vocational teacher will combine occupational experience with academic course work to complete the degree requirements. Recent work experience has been the foundation of vocational education that assures recipients state-of-the-art technical instruction.

**University Core and General Education: 30 hours minimum**

Select from the list in the General Section of this catalog.

**Preprofessional Education 8 hours**

CIET	2020	Multimedia in Educational Environments .....	2
EDP	3200	Applied Psychology for Teachers .....	3
EDP	3230	Human Develop/K-12 Educators.....	3

**Professional Education: 36 hours**

CTE	3010	Teaching Occupational Skills .....	3
CTE	3020	Teaching Occupational Knowledge .....	3
CTE	3030	Methods of Teaching Voc Ed I.....	2
CTE	3040	Methods of Teaching Voc Ed II .....	2
CTE	3100	Curriculum Construction in Voc Ed.....	3
CTE	4060	Foundations of Voc Ed.....	3
CI	4490	Content Area Reading.....	3
SPED	4020	Educating Students w/ Disabilities .....	2
CTE	3910	Seminar for Vocational Teachers .....	3
CTE	4930	Supervised Teaching .....	12

**Technical and Content Requirements: 51-60 hours**

Health Careers Education  
Integrated Business Education  
Industrial Engineering Systems

**Electives**

Twenty-four semester hours of the major may be completed by transferring technical courses into the program or by successfully completing an occupational competency examination. Thirty semester hours of course work at The University of Toledo must be completed before occupational competency examination credit can be applied toward the bachelor of vocational education degree.

**Career and Technical Education (2 + 2)**

The 2 + 2 program allows a community college or technical student to transfer up to 66 semester hours of work in courses with a grade of C or better for the undergraduate program. The student must have completed an associate's degree and within that degree have completed selected courses for the University Core Curriculum. Otherwise, course work is transferred to the university on a course-by-course basis.

**Non-Degree (Licensure Only)**

Any person having five years of recent work experience in any occupation (or a combination of work experience and college credit) may be eligible for the initial two-year teaching licensure in that occupation. Teaching eligibility will be determined by submitting the completed Qualification Evaluation Form for Vocational Teacher (VE 36) to the employing school and completing examinations prescribed by the College of Education and vocational program to verify basic skills and technical competence in the teaching field.

Individuals recruited from business and industry with less than a bachelor's degree in vocational education may receive a Five-Year Vocational Licensure after having completed the following requirements:

1. Performance: Evidence of satisfactory performance as an instructor and the recommendation of the College of Education.
2. Experience: Two years of supervised teaching experience on provisional vocational licensure.
3. Professional Preparation: Completion of a minimum of 24 semester hours of teacher improvement work.
4. Completion of an entry-year program.

**Computer/Technology Endorsement**

Students wishing to be eligible for the computer/technology endorsement at the completion of a baccalaureate program leading to initial teacher licensure should complete the following additional undergraduate course work:

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CIET	4010	Select & Use of Instr Media.....	3
CIET	4120	Telecommunications in Education.....	3
CIET	4150	Multimedia Instructional Materials.....	3
CIET	4200	Implementation & Eval of Ed Tech .....	3
CIET	4250	Integrat. of Ed Tech in Cont Areas.....	3
CIET	4500	Practicum in Ed Tech .....	1-3
CIET	4990	Indep. Study: Portfolio Development .....	1-3
CIET	4100	Ed Computing: Productivity Tools .....	3

## College of Education Faculty

**Amy Allen**, 2003, lecturer  
B.E., M.E., The University of Toledo

**Sally M. Atkins-Burnett**, 2002, assistant professor  
B.A., M.Ed., Boston College; Ph.D., University of Michigan

**Lawrence Baines**, 2003, associate professor  
B.A., The University of Texas at Austin; M.A., University of North Texas;  
Ph.D., The University of Texas at Austin

**Joanne E. Beriswill**, 2002, assistant professor  
B.A., M.Ed., University of South Florida; M.S., Ph.D., Indiana University  
at Bloomington

**Eileen M. Carr**, 1987, professor  
B.A., Newton College of the Sacred Heart; M.Ed., M.A.Ed., Ph.D., The  
University of Toledo

**Laurence J. Coleman**, 2001, professor  
B.A., State University of New York at Albany; M.S., Southern Connecticut  
State College; Ph.D., Kent State University

**John R. Cryan**, 1978, professor  
B.A., M.S., Ph.D., Syracuse University

**Charlene M. Czerniak**, 1989, professor  
B.A., The University of Toledo; M.Ed., Bowling Green State University;  
Ph.D., The Ohio State University

**Dwayne L. DeMedio**, 1975, professor  
B.S.Ed., California State College - Pennsylvania; M.A., Ed.D., West  
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**Jenny Mescall Denyer**, 2003, assistant professor  
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**Patricia Devlin**, 2002, assistant professor  
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University

**Laurie A. Dinnebeil**, 1993, professor  
B.A., Dominican College of Blauvelt; M.A.T., Augustana College; Ph.D.,  
Utah State University

**Thomas G. Dunn**, 1971, professor  
B.S., Fordham University; M.S., Ph.D., Florida State University

**Mary Ellen Edwards**, 1994, professor  
B.S., University of Wisconsin; M.A., Ph.D., New School for Social  
Research

**Christine M. Fox**, 1994, associate professor  
B.A., Miami University; M.A., Cleveland State University; Ph.D., Kent  
State University

**William M. Gray**, 1975, professor and associate dean for graduate stud-  
ies and research  
B.A., M.A., Ed.D., State University of New York - Albany

**Penny Poplin Gosetti**, 1994, associate professor  
B.A., University of California - Los Angeles; M.S., California State  
University - Long Beach; Ph.D., University of Oregon

**Lynne Hamer**, 2002, associate professor  
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**Paul E. Hubaker**, 2002, lecturer  
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**Sherick A. Hughes**, 2003, assistant professor  
B.A., University of North Carolina at Wilmington; M.A., Wake Forest  
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**Virginia L. Keil**, 2001, assistant professor and associate dean for under-  
graduate studies and accreditation  
B.S., Bowling Green State University; M.Ed., Ph.D., The University of  
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**Edward C. Kennedy III**, 2002, assistant professor  
B.S., M.S., M.S., Ph.D., The Ohio State University

**Franklin R. Koontz**, 1968, professor  
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**Lisa A. Kovach**, 2002, assistant professor  
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**Revathy Kumar**, 2001, assistant professor  
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**Elizabeth A. Linnenbrink**, 2002, assistant professor  
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**Sakui W. Malakpa**, 1986, professor  
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versity

**Wendell R. McConnaha**, 2003, associate professor  
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**William F. McInerney**, 1983, professor  
B.A., Villanova University; M.Ed., University of Hartford; Ph.D., Kent  
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**David L. Meabon**, 1994, associate professor  
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**Anthula Natsoulas**, 1983, professor

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**Ronald Opp**, 1997, associate professor

B.A., Swarthmore College; M.A., California State University - Los Angeles; Ph.D., University of California - Los Angeles

**Carol E. Plimpton**, 1985, associate professor

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**Robert F. Sullivan**, 1983, professor

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**Thomas J. Switzer**, 2002, professor and dean

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### EMERITUS FACULTY

**John F. Ahern**, 1969, professor emeritus

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**David M. Balzer**, 1968, professor emeritus

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**Langston C. Bannister**, 1971, professor emeritus

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**Dewitt C. Davison**, 1967, professor emeritus

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**Jerome E. DeBruin**, 1972, professor emeritus

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**James R. Gress**, 1978, professor emeritus

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**Lynne M. Hudson**, 1976, professor emerita

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**Hughes Moir**, 1969, professor emeritus

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**Paul H. Muntz**, 1958, professor emeritus

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