

# **COLLEGE OF EDUCATION**

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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 pre-kindergarten 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 pre-kindergarten 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 K-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
- Bachelor of Vocational 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 4 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 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.

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.*

## Grade Deletion

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 accumulated 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:

	<b>Credit Hours</b>	<b>Minimum Equivalent Years</b>
<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

## DUAL OR SINGLE DEGREE

### Dual Degree Option

Middle Childhood Education 153-178 5-5 1/2

#### Multi-Age Education:

Foreign Languages (French, German or Spanish)	151	4 1/2
Health Education	151-180	5
Physical Education	143-175	5

### Single Degree Option

Middle Childhood Education 138-162 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:

<b>Early Childhood Education</b>	CIEC 3200 Philosophy and Practices (Interviews and fingerprint packets will be completed during the semester in this course.)
<b>Special Education</b>	SPED 4240 Teaching Reading & Literacy: Special Needs
<b>Middle Childhood Education</b>	CI 3240 Best Practices in Middle Level Education
<b>Adolescent &amp; Young Adult Education</b>	CI 3900 A&YA Linking Seminar 3
<b>Visual Art Education, Music Education</b>	EDP 3200 Applied Psychology for Teaching
<b>Physical Education</b>	PED 2950 Intro to Teaching PE
<b>Health Education</b>	HEAL 2900 Linking Seminar
<b>Foreign Languages Education</b>	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 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 hour minimum

#### Early Professional Courses: 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
CIEC	3200	Philosophies/Practices in ECE.....	3

*The following courses are taken concurrently:*

EDP	3210	Early Childhood Develop: Typical.....	3
		<i>(Currently ERLY majors will complete this requirement by enrolling in EDP 4990/ERLY sections <b>only</b>.)</i>	
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 Standing, Cognate and Liberal Arts

(Must be completed before final three semesters in the program.)

#### Professional Standing required - 18 hours

CIEC	4350	Infant/Toddler Curriculum .....	3
		(includes 24 hours of field experience)	
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

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**

CI/SPED	4900	ECE Internship Seminar .....	2
CI/SPED	4930	Internship in ECE .....	12
CIEC	4920	ECE Senior Research Project .....	2

Total semester hours: 132

**Special Education**

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 (Pre-K-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 hour 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

**Prerequisite to Professional 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
<b>Final Semester/Senior Year (concurrent enrollment):</b>			
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.....	1
CI	4010	Middle Grades Field Experience.....	3
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 hour minimum**

**Professional Education: 64 hours**

CI	1900	Linking Seminar: Intro Middle Grades Educ.....	1
*CI	4990(011)	Content Area Reading.....	3
*CI	4990(012)	Content Area Reading.....	3
CIET	2020	Multimedia in Educational Environments.....	2

\*Course number subject to change.

**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

**Methods/Middle Grades Licensure Concentration: 54 hours**

AED/MED	4230	Integrating Aesthetics.....	3
CI	3240	Best Prac. in Middle Level Tchg.....	3

CI	3440	Phonics & Word Identification.....	3
CI	4000	Principles Curr Integration/Middle Child .....	3
CI	4010	Field Exper for Curr Integration.....	1
CI	4290	Middle Grades Methods/Field Exp .....	2
CI	4400	Reading in Middle Grades.....	3
CI	4930	Middle Grades Internship.....	12
CI	4990	Student Teaching Seminar.....	1
Select two from the following four courses.....			8
CI	4250	Methods/Middle Grades/Math	
CI	4260	Methods/Middle Grades/Science	
CI	4270	Methods/Middle Grades/Social Studies	
CI	4280	Methods/Middle Grades/Lang Arts	
CMHS	4580	Teacher as Adviser .....	3
EDP	3240	Child & Early Adoles. Develop .....	3
HEAL	4400	Health Problems of Youth.....	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.

### Mathematics (26 hours)

CI	4550	Mathematical Problem Solving .....	3
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	3520	Num. Sys. & Algebraic Structures .....	3
MATH	1850	Calculus I.....	4
MATH	1860	Calculus II.....	4

### Social Studies (27 hours)

#### Political Science

PSC	1200	American National Government .....	3
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#### Economics

ECON	1200	Principles of Microeconomics.....	3
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#### Sociology

SOC	2640	Race, Class, and Gender.....	3
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#### Humanities

HUM	3020	Reason's Culture.....	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	
HIST	3260	African-American History from 1865	
HIST	3280	City & Metropolis in Modern America	
HIST	3310	Ethnic America	
HIST	3410	American Social History from 1850	
HIST	4200	Colonial Foundations of US	
HIST	4230	The Early Republic	
HIST	4250	Civil War & Reconstruction	
HIST	4280	US Since 1945: Affluence & Annex	
HIST	4320	Indians in Eastern North	
HIST	4370	American Intellectual History II	
HIST	4430	Slavery in America	
HIST	4460	Women in American History	
HIST	4480	American Labor and Working Class History	

#### European History

Select one from list below .....			3
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HIST	3100	European Middle Ages I	
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HIST	3530	20th Century Germany
HIST	4040	Europe in the 16th/17th Centuries
HIST	4060	Age of Absolutism
HIST	4080	Age of Revolution
HIST	4090	Europe 1850-1918
HIST	4100	Europe Since World War I
HIST	4150	Critics of Victorian Society
HIST	4170	British Empire: For and Against
HIST	4460	Imperial Russia 1700-1917
HIST	4510	European Diplomacy 1815-present
HIST	4620	Central Europe
HIST	4760	Colonial & Imperialism 19th & 20th Cent.

### Non-Western Studies

Select one from the list below ..... 3

GEPL	3120	Geography of Asia
GEPL	3220	Geography of Africa
GEPL	3300	Geography of Latin America
HIST	4470	Mexico
HIST	4530	History/Middle East Since 1500
HIST	4570	Africa to 1800
HIST	4720	Modern Chinese History
HIST	4740	Modern Japanese History

### 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 (29-30 hours)

#### 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

#### 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

#### 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

### 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

## 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
Foreign Language 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 be certain to visit your adviser in the College of Arts and Sciences; only he/she can approve the coursework 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
Foreign Language 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	.....	3
Social Science	.....	3

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

Courses vary from year-to-year and are listed on the College of Arts and Science 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
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

EDP	3250	Adol Development/ Learning Theory.....	3
SPED	4020	Special Educ & Inclusion Sec. Ed.....	2
CI	3240	Best Prac Mid Level Teaching for “ADOL” majors.....	3
CI	3110	Secondary Field Experience I (coreq. with CI 3240).....	2
TSOC	3000	Socio-Cultural Analysis.....	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	4910	Sem:Reforms, Res.& Crit Lit.....	3
CI	4930	Internship (corequisite with CI 4910).....	12
CI	4980	Content Area Reading.....	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.....	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

**Integrated Mathematics**

**Professional Education: 46 hours**

EDP	3250	Adol Development/ Learning Theory .....	3
SPED	4020	Special Educ & Inclusion Sec. Ed.....	2
CI	3240	Best Prac Mid Level Teaching for “ADOL” majors.....	3
CI	3110	Secondary Field Experience I (coreq. with CI 3240).....	2
TSOC	3000	Socio-Cultural Analysis.....	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	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
*CI	4980	Content Area Reading .....	3

\*Course number subject to change.

**Mathematics Content: 41-42 hours**

MATH	1780	Intro to Maple .....	1
MATH	1860	Calculus II <b>or</b>	
MATH	1880	Calculus II with Maple .....	4
MATH	2850	Elem Multivar Calc III <b>or</b>	
MATH	2880	Elem Multivar Calc III with Maple .....	4
MATH	1890	Linear Algebra.....	3
MATH	3190	Introduction to Analysis-WAC .....	3
MATH	3860	Differential Equations <b>or</b>	
MATH	3880	Differential Equations with Maple.....	3
MATH	3320	Intro Abstract Algebra <b>or</b>	
MATH	4330	Abstract Algebra I .....	3
MATH	3610	Statistical Methods <b>or</b>	
MATH	4680	Theory of Probability .....	3
MATH	4300	Linear Algebra I <b>or</b>	
MATH	4350	Applied Linear Algebra .....	3
MATH	3440	Geometry I.....	3
MATH	3450	Geometry II.....	3
MATH	3200	Number Theory .....	3
MATH	3510	History of Mathematics .....	3
MATH	4380	Discrete Mathematics .....	3

NOTE: At least three mathematics courses must be taken at the 4000 level. At least one of MATH 1880, 2880, or 3880 must be taken. At least one class must be taken with Maple.

**Integrated Social Studies**

**Professional Education: 43 hours**

EDP	3250	Adol Development/Learning Theory .....	3
SPED	4020	Special Educ & Inclusion Sec. Ed.....	2
CI	3240	Best Prac Mid Level Teaching for “ADOL” majors.....	3
CI	3110	Secondary Field Experience I (coreq. with CI 3240).....	2
TSOC	3000	Socio-Cultural Analysis.....	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	4720	Issues in Social Studies .....	3
CI	4910	Sem:Reforms, Res.& Crit Lit .....	3
CI	4930	Internship (corequisite with CI 4910) .....	12
*CI	4980	Content Area Reading .....	3

\*Course number subject to change.

## Social Studies Content: 33 hours

HIST 2000	Methods in Historical Study -WAC .....	4
HIST 4680	20th Century Russia .....	3
HIST 4400	American Foreign Relations.....	3
Select two: .....		6
HIST 3260	African-Amer. History from 1865	
HIST 3280	City & Metropolis	
HIST 3290	Ohio History	
HIST 3310	Ethnic America	
HIST 3410	Amer. Soc & Cult History to 1850	
HIST 4200	Colonial Foundations of US	
HIST 4230	The Early Republic	
HIST 4450	Amer. Labor & Work Class History	
HIST 4460	Women in American History	
Select three: .....		9
HIST 3100	European Middle Ages	
HIST 3530	20th Century Germany	
HIST 4040	Europe in 16th -17th Century	
HIST 4080	Age of Revolution	
HIST 4090	Europe, 1850-1918	
HIST 4100	Europe Since WWI	
HIST 4150	Critics of Victorian Society	
HIST 4170	British Empire: For and Against	
HIST 4500	Euro Diplomacy 1648-1815	
HIST 4510	Euro Diplomacy 1815-present	
HIST 4620	Central Europe	
HIST 4760	19th-20th Century Colonialism	
Select three: .....		9
HIST 3210	Latin Amer Republics	
HIST 4470	Mexico	
HIST 4530	Hist/Mid East Since 1500	
HIST 4570	Africa to 1800	
HIST 4580	Africa Since 1800	
HIST 4720	Modern Chinese History	
HIST 4740	Modern Japanese History	

## 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

EDP 3250	Adol Development/ Learning Theory .....	3
SPED 4020	Special Educ & Inclusion Sec. Ed. ....	2
CI 3240	Best Prac Mid Level Teaching for "ADOL" majors.....	3
CI 3110	Secondary Field Experience I (coreq. with CI 3240).....	2
TSOC 3000	Socio-Cultural Analysis.....	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 4680	Issues: Sec Sciences.....	3
CI 4910	Seminar: Reforms, Res.& Crit Lit. ....	3
CI 4930	Internship (corequisite with CI 4910) .....	12
*CI 4980	Content Area Reading .....	3

\*Course number subject to change.

## 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 (core)	
	<b>or</b>	
MATH 1850	Calculus I (core) <b>and</b>	
MATH 1860	Calculus II (core).....	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
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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	or
CHEM 2490	Syn. and Iden. of Organic Comp.	1-2
CHEM 3510	Biochemistry I	3
PHYS 2070	General Physics I	and
PHYS 2080	General Physics II	
	or	
PHYS 2130	Physics for Science and Engr. Majors I	and
PHYS 2140	Physics for Science and Engr. Majors II	10
MATH 1750	Math for Life Sciences I (core)	and
MATH 1760	Math for Life Sciences II	
	or	
MATH 1850	Calculus I (core)	and
MATH 1860	Calculus II (core)	7-8
<b>Additional Science Content: 8 hours</b>		
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 hrs

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
<b>Select two of the following:</b> BIOL 3020, 3040, 4040, 4060, 4080, 4320, 4640, 4690 or EEES-3060		
BIOL 3410	Plant Physiology	or
BIOL 3420	Domesticated Plants	3
<b>Select 9 hours of biology courses level 3000-4000</b>		
BIOL 3000-4000		9

#### 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	and
PHYS 2080	General Physics II	
	or	
PHYS 2130	Physics for Science and Engr. Majors I	and
PHYS 2140	Physics for Science and Engr. Majors II	10
MATH 1750	Math for Life Sciences I (core)	and
MATH 1760	Math for Life Sciences II	
	or	
MATH 1850	Calculus I (core)	and
MATH 1860	Calculus II (core)	7-8

#### Additional Science Content: 8 hours

ASTR 1010	Survey of Astronomy	3
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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 hrs

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 or	
BIOL 3420 Domesticated Plants.....	3

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

BIOL 3000-4000.....	9
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#### 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 1850	Calculus I (core) <b>and</b>	
MATH 1860	Calculus II (core).....	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 or	
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 - Phys & Astr.....	3
PHYS 2130 Physics for Sci & Eng Majors I.....	5
PHYS 2140 Physics for Sci & 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 or	
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 1850 Calculus I (core) .....	4
MATH 1860 Calculus II.....	4
MATH 2850 Calculus III .....	4
MATH 1890 Elem Linear Algebra .....	3
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 1850	Calculus I (core) .....	4
MATH 1860	Calculus II (core) .....	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 <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

**Earth Science/Physics Education Option**

**Science Content**

**Geology Content: 39 hrs**

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 1850	Calculus I (core) .....	4
MATH 1860	Calculus II (core).....	4
MATH 2850	Calculus III .....	4
MATH 1890	Elementary Linear Algebra .....	3
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 <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

**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	Adv Lab I.....	2

**Related Math Content: 18 hours**

MATH 1850	Calculus I (core).....	4
MATH 1860	Calculus II.....	4
MATH 2850	Calculus III.....	4
MATH 1890	Elem. Linear Algebra.....	3
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 <b>I and</b>	
BIOL 2160	Fund of Life Science Lab I	
	<b>or</b>	
BIOL 2170	Fund of Life Science <b>II 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 1850	Calculus I (core) .....	4
MATH 1860	Calculus II (core) .....	4
MATH 2850	Calculus III .....	4
MATH 1890	Elem. Linear Algebra. ....	3
MATH 3860	Elem. Diff. Eq. (coreq. PHYS 3310).....	3
<b>Additional Science Content: 13 hours</b>		
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 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 Art Education: 32 hours

AED 3500	Innovations in Art Ed .....	3
AED 4200	Computer Graphics in Art Ed <b>or</b>	
AED 4950	Creating Curriculum Cyberspace .....	3
AED 4450	Curriculum in Art Ed.....	3
AED 4900	Student Teaching Seminar.....	2
AED 4930	Student Teaching .....	12
*CI 4980	Content Area Reading .....	3
TSOC 3000	Socio-Cultural Analysis.....	3
SPED 4020	Students with Disabilities .....	3

\*Course number subject to change.

#### Art Foundations Core: 13 hours

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

#### Studio Art: 8 hours

ART 2150	Intro to Cyber Art .....	3
ART 2230	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	Photography I <b>or</b>	
ART 3150	Digital Photo (prereq. ART 2150).....	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 3150/3170	Topics in Renaissance/Baroque Art .....	3
ARTH 2080	History of Modern Art <b>or</b>	
ARTH 2/4980	Topics in Modern Art .....	3
Choose one non-western course from below:		3
ARTH 2100	Asian Art	
ARTH 2200	Ethnographic Art	
ARTH 3250	Topics in Asian Art	
ARTH 3270	Topics in Ethnographic Art	
ARTH 3300	African Art	
ARTH 3350	Ancient Art of the Americas	

### 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	Digital Multi-Media .....	3
ART 4110	Advanced Topic-Cyber Arts .....	3

### Therapeutic Arts Concentration: 15 hours

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

(Including MUS 2220 or 2250)

### Professional Education: 33 hours

MUS 1000	Orientation .....	1
*CI 4980	Content Area Reading .....	3
EDP 3200	Applied Psychology .....	3
EDP 3230	Human Development .....	3
MED 3000	Foundations of Music Education .....	2
MED 3310	Music for Children .....	3
MED 4900	Student Teaching Seminar .....	1
MED 4930	Student Teaching (Elementary 6 hrs/Secondary 6 hours) .....	12
SPED 4020	Student with Disabilities .....	2
TSOC 3000	Socio-Cultural Analysis .....	3

\*Course number subject to change.

### Content Area: 45 hours

MUS 1570	Piano/Music Majors I .....	1*
MUS 1580	Piano/Music Majors II .....	1*
MUS 2570	Piano Class/Music Majors III .....	1*
MUS 1610	Music Theory/Ear Trng I .....	4
MUS 1620	Music Theory/Ear Trng II .....	4
MUS 2610	Music Theory & Ear Trng III .....	4
MUS 2620	Music Theory & Ear Trng IV .....	4

MUS 2410	Music History & Lit I: World Music & Jazz .....	3
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:

- perform a senior recital (half or full) at a minimum proficiency of level 6;
- attend 16 non-departmental concerts/recitals and 80 departmental concerts/recitals; and must complete 1 credit of registration in a chamber ensemble MUS 2/3050 that does not count toward graduation; and
- 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.....	4**
MED 3320	Secondary Vocal/Music Majors .....	3**
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	University/Concert Band
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**

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

MUS 2/3140	Concert Chorale
MUS 2/3160	Men's Chorus
MUS 2/3180	Women's Chorus

#### Select one

MUS 2530	Diction for Singers
MUS 2540	Diction for Singers II
MUS 2580	Piano Class/Music Majors IV (1*)
MUS 3510	Choral Conducting (3**)
MUS 3550	Teaching of Singing (2)

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 hrs

### 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 4980	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

\*Course number subject to change.

### 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 hrs

### 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.....	1
HEAL	2900	Health Ed Linking Seminar.....	1
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: 19 hours (Professional Standing Required)

*CI	4980	Content Reading in AYA, MULTI.....	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

\*Course number subject to change.

### 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: 13 hours (Professional Standing Required)

HEAL/PED	4900	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: 30 hours

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	4400	Health Problems of Youth.....	3
HEAL	4600	School Health Programs.....	3
HEAL	4700	Nutrition Science .....	3
HEAL	3200	Consumer Health <b>or</b>	
HEAL	3800	Death & Dying.....	3

# Physical Education and Recreation & Leisure Studies

## University Core and General Education: 30 hours

### Preprofessional Education: 23 hours

CIET	2020	Multi-Media for Educ Envir.....	2
EDP	3200	Applied Psych for Teachers.....	3
EDP	3230	Human Devel. for PreK 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 PED.....	3
TSOC	3000	Socio-Cultural Analysis.....	3

### Professional Education: 16 hours

PED	3000	Dev Games & Activities.....	3
PED	3120	Rhythmic Activities.....	3
PED	3130	Understanding Sport 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: 13 hours (Professional Standing Required)

PED	4900	Seminar in Student Teaching.....	1
PED	4930	Student Teaching .....	12

### Physical Education Content Area: 23 hours

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

### Recreation and Leisure Courses: 47 hours

RCRT	1010	Popular Outdoor Pursuits <b>or</b>	
RCRT	1400	Camp/Outdoor Rec .....	3
RCRT	1300	Intro Rec & Leisure .....	3
RCRT	1310	Rec Programming .....	3
RCRT	2300	Leadership Grp Dyn .....	3
RCRT	2940	Sophomore Field Exper.....	3
RCRT	3210	Leisure, Rec & Aging.....	3
RCRT	4300	Adaptive Spec. Pop.....	3
RCRT	4320	Rec Administration.....	3
RCRT	4400	Naturalist/Interp Serv .....	3
RCRT	4410	Park & Rec Program.....	3
RCRT	4420	Prog Eval Techniques.....	3
RCRT	4930	Senior Field Experience .....	12
KINE	1080	Exercise & Health.....	2

## Physical Education & Exercise Science

### Dual Degree: B.Ed. & B.S.

University Core and General Education: 30 hours

#### Preprofessional Education: 23 hours

CIET	2020	Multi-Media for Educ Envir.....	2
EDP	3200	Applied Psych for Teachers.....	3
EDP	3230	Human Devel. for PreK 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 PED.....	3

#### Professional Education: 16 hours

PED	3000	Dev Games & Activities.....	3
PED	3120	Rhythmic Activities.....	3
PED	3130	Understanding Sport 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: 13 hours (Professional Standing Required)

PED	4900	Seminar in Student Teaching.....	1
PED	4930	Student Teaching.....	12

#### Exercise Science Core: 32 hours

HEAL	1500	First Aid.....	2
HEAL	4700	Nutrition Science .....	3
KINE	1700	Intro to Exercise Science.....	3
KINE	2510	Human Anatomy.....	3
KINE	2520	Human Anatomy Lab .....	1
KINE	2530	Human Physiology .....	3
KINE	2540	Human Physiology Lab .....	1
KINE	2960	Growth, Dev & Motor Lrng .....	4
KINE	3520	Applied Exercise Phys.....	3
KINE	3530	Applied Exercise Phys Lab .....	1
KINE	4540	Applied Biomechanics.....	3
KINE	4550	Applied Biomechanics Lab .....	1
KINE	4980	Senior Project.....	4

#### Science Core: 25 hours

CHEM	1230	General Chemistry I.....	4
CHEM	1280	General Chemistry Lab I .....	1
CHEM	1240	General Chemistry II .....	4
CHEM	1290	General Chemistry Lab II.....	1
BIOL	2150	Fund Life Sciences I.....	4
BIOL	2160	Fund Life Sciences Lab I.....	1
BIOL	2170	Fund Life Sciences II.....	4
BIOL	2180	Fund Life Sciences Lab II .....	1
PHYS	2070	General Physics I.....	5

## 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: 7 hours

CIET	2020	Tech. and Multimedia in Educ. Env.....	2
EDP	3200	Applied Psychology for Teachers .....	3
HEAL	2900	Health Ed Linking Seminar .....	1
HEAL	2900	Health Ed Linking Seminar .....	1

### Professional Education: 17 hours

*CI	4980	Content Reading for AYA, MULTI.....	3
EDP	3230	Human Development for pre-K-12 .....	3
HEAL	4300	Instruc Programs in Health Education .....	4
HEAL	4350	Instruc Programs in Health: Field Exp.....	2
SPED	4020	Educ Students with Disabilities within the Regular Educ Environment .....	2
TSOC	3000	Socio-Cultural Analysis.....	3

\*Course number subject to change.

### Student Teaching: 14 hours

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

### School Health: 40 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	4600	School Health Programs .....	3
HEAL	4700	Nutrition.....	3
KINE	2560	Anatomy & Physiology I.....	3
KINE	2570	Anatomy & Physiology II .....	2

### Electives: 21 hours

## Multi-Age Foreign Languages Education

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

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

### 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	4980	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

\*Course number subject to change.

## 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.*

## Additional Electives: 10-12

Elective hours to meet 128 hour 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

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

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	4980	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

\*Course number subject to change.

### 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

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

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

**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 4980	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

\*Course number subject to change.

### 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 <b>or</b>	
SPAN 3270	Survey of Latin American Lit. I .....	3

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

SPAN 3220	Survey of Spanish Lit II <b>or</b>	
SPAN 3280	Survey of Latin American Lit II.....	3

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

SPAN 3410	Spanish Culture & Civilization <b>or</b>	
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**

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.

**Note:** 21 hours of professional education will be accepted as a minor in the foreign language

### **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 hour minimum**

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

### **Professional Education: 43 hours**

*CI 4980	Content Area Reading .....	3
CIET 2020	Multimedia in Educational Environments.....	2
EDP 3200	Applied Psychology for Teachers .....	3
EDP 3230	Human Develop/K-12 Educators .....	2
SPED 4020	Educating Students w/ Disabilities.....	2
CTE 3040	Methods of Teaching Voc Ed II.....	2
CTE 4930	Supervised Teaching .....	12
CTE 3910	Seminar for Vocational Teachers .....	3
CTE 4060	Foundations of Voc Ed.....	3
CTE 3010	Teaching Occupational Skills.....	3
CTE 3020	Teaching Occupational Knowledge .....	3
CTE 3030	Methods of Teaching Voc Ed I .....	2
CTE 3100	Curriculum Construction in Voc Ed.....	3

\*Course number subject to change.

### **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:

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