BE IN ADOLESCENT AND YOUNG ADULT EDUCATION

The Bachelor of Education in Adolescent and Young Adult Education is designed for students who wish to earn an initial Ohio teaching license at the undergraduate level in conjunction with a bachelor's degree. Students in this program earn a bachelor's degree and complete requirements for an initial Ohio educator license in Adolescent and Young Adult Education for grades 7 through 12 in one subject-matter area. Subject-matter areas options include: chemistry, Earth and space science, integrated language arts, integrated mathematics, integrated science, integrated social studies, life science, and physics.

Degree Requirements by Concentration

Concentration in Chemistry

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
Total Hours		**22**

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Chemistry, select the following:		
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 Laboratory I for Non-Majors	1
CHEM 2470	Organic Chemistry Laboratory II for Non-Majors	1
CHEM 3310	Analytical Chemistry	2
Supporting Subject-matter, select ALL of the following sets:		
Earth and Space Science		
EEES 2020	Introduction to the Environment: Energy and Climate	3
EEES 2030	Introduction to the Environment Land-Use and Water	3
Life Science		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
Physics		
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
Mathematics		
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 2600	Introduction To Statistics	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education courses.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in chemistry
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Science, select the following:		
CI 4680	The Nature of Science	3
CI 4170	Methods of Teaching AYA Science	3
CI 4270	Advanced Methods of Teaching AYA Science	3
Professional Education Internship*, select the following:		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA >2.7
- Completion of 90% of subject matter specializations
- Subject matter GPA >2.7
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA >2.7

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

Acceptable scores on all Ohio Assessment for Educators (http://www.oh.nesinc.com/) (OAE) tests specified by the The State of Ohio for the licensure area are required prior to applying for Ohio teaching license.

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Concentration in Earth and Space Science

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Earth and Space Science, select the following:		
ASTR 2010	Solar System Astronomy	3
ASTR 2020	Stars, Galaxies, And The Universe	3
ASTR 2050	Elementary Astronomy Laboratory	1
EEES 2020	Introduction to the Environment: Energy and Climate	3
EEES 2030	Introduction to the Environment Land-Use and Water	3
EEES 2100	Fundamentals Of Geology	4
PHYS 1910	Frontiers Of Physics And Astronomy	3
Supporting Subject-matter, select ALL of the following sets:		
Chemistry		
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
Life Science		
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
Physics		
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
Mathematics		
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 2600	Introduction To Statistics	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in Earth and space science
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Science, select the following:		
CI 4680	The Nature of Science	3
CI 4170	Methods of Teaching AYA Science	3
CI 4270	Advanced Methods of Teaching AYA Science	3
Professional Education Internship*, select the following:		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

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Concentration in Integrated Language Arts

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3

Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Language Arts, select the following:		
ENGL 3600	American Literary Traditions	3
ENGL 3610	British Literary Traditions	3
ENGL 3770	World Literature And Cultures	3
ENGL 3790	Foundations Of Literary Study	3
ENGL 3810	Shakespeare I	3
ENGL 4090	Current Writing Theory	3
COMM 2150	Digital Design for Media Communication	3
Select ONE of the following:		
ENGL 2010	Advanced Composition	3
ENGL 3050	Persuasive Writing	3
Supporting Subject-matter, select ALL of the following sets:		
Select ONE of the following:		
ENGL 3010	Creative Writing	3
ENGL 4030	Writing Workshop In Nonfictional Prose	3
ENGL 4070	Writing Workshop In Poetry	3
ENGL 4080	Writing Workshop In Fiction	3
Select ONE of the following:		
COMM 2600	Public Presentations	3
COMM 3340	Visual Communication	3
COMM 3610	Speech Writing	3
COMM 3820	Persuasion Theory	3
Select ONE of the following:		
ENGL 3660	Latinx Literature in the U.S.	3
ENGL 4610	Nineteenth-Century Latinx Literature	3
ENGL 4650	African American Writers Before The 20th Century	3
ENGL 4660	African American Literature In The 20th and 21st Century	3
ENGL 4670	Asian American Literature	3
ENGL 4690	Native American Literature And Culture	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in integrated language arts
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Language Arts, select the following:		
CI 4320	Literature For Young Adults	3
CI 4150	Methods of Teaching AYA English Language Arts	3
CI 4250	Advanced Methods of Teaching AYA English Language Arts	3
Professional Education Internship*, select the following:		
CI 4730	Seminar Managing the English Language Arts Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

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Concentration in Integrated Mathematics

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Mathematics, select the following:		
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 2190	Foundations of Mathematics	3
MATH 2850	Elementary Multivariable Calculus	4
MATH 2890	Numerical Methods And Linear Algebra	3
MATH 3320	Introduction To Abstract Algebra	3
MATH 3440	Fundamentals Of Modern Geometry I	3
MATH 3450	Fundamentals Of Modern Geometry II	3
MATH 3510	History Of Mathematics	3
MATH 3610	Statistical Methods I	3
MATH 4380	Discrete Structures And Analysis Of Algorithms	3
MATH 4680	Introduction To Theory Of Probability	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in integrated mathematics
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Mathematics, select the following:		
CI 4550	Teaching Problem Solving In Mathematics	3
CI 4160	Methods of Teaching AYA Mathematics	3
CI 4260	Advanced Methods of Teaching AYA Mathematics	3
Professional Education Internship*, select the following:		
CI 4740	Seminar: Managing the Mathematics Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

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Concentration in Integrated Science

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Science, select ALL of the following sets:		
Chemistry		
CHEM 1230	General Chemistry I	0,4
CHEM 1240	General Chemistry II	0,4
CHEM 1280	General Chemistry Lab I	1
CHEM 1290	General Chemistry Lab II	1
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	1
Earth and Space Science		
ASTR 2010	Solar System Astronomy	3
ASTR 2020	Stars, Galaxies, And The Universe	3
ASTR 2050	Elementary Astronomy Laboratory	1
EEES 2020	Introduction to the Environment: Energy and Climate	3
EEES 2030	Introduction to the Environment Land-Use and Water	3
EEES 2100	Fundamentals Of Geology	4
Life Science		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
BIOL 3010	Molecular Genetics	3
EEES 3050	General Ecology	3
Physics		
PHYS 1910	Frontiers Of Physics And Astronomy	3
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
Mathematics		
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 2600	Introduction To Statistics	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in integrated science
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Science, select the following:		
CI 4680	The Nature of Science	3
CI 4170	Methods of Teaching AYA Science	3
CI 4270	Advanced Methods of Teaching AYA Science	3
Professional Education Internship*, select the following:		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

Acceptable scores on all Ohio Assessment for Educators (http://www.oh.nesinc.com/) (OAE) tests specified by The State of Ohio for the licensure area are required prior to applying for Ohio teaching license.

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Concentration Integrated Social Studies

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Social Studies, select the following:		
ECON 1010	Introduction To Economic Issues	3
ECON 1150	Principles Of Macroeconomics	3
GEPL 2010	Fundamentals Of Geography	3
HIST 2000	Methods Seminar - WAC	4
HIST 2010	America To 1865	3
HIST 2020	America From 1865	3
PSC 1200	American National Government	3
PSC 2700	Principles Of International Relations	3
PSY 1010	Principles Of Psychology	3
SOC 1010	Introduction To Sociology	3
Supporting Subject-matter, select ALL of the following sets:		
Select TWO of the following:		
HIST 1050	World History To 1500	3
HIST 1060	World History From 1500	3
HIST 1070	The Contemporary World	3
Select TWO of the following:		
HIST 3290	Ohio History	3
HIST 3250	African-American History To 1865	3
HIST 3260	African-American History From 1865	3
HIST 3310	Ethnic America	3
HIST 3600	Women In American History	3
HIST 4200	Colonial Foundations Of U.s.	3
HIST 4210	Women In Early America	3
HIST 4220	The American Revolution	3
HIST 4280	U.s. Since 1945: Affluence And Anxiety	3
HIST 4430	Slavery In America	3
Select TWO of the following:		
ARTH 2200	Ethnographic Art	3
ARTH 3250	Topics In Asian Art	3
ARTH 3300	African Art	3
HIST 3100	European Middle Ages I	3
HIST 3200	Colonial Latin America	3
HIST 3210	Modern Latin America	3
HIST 3630	Africa To 1800	3
HIST 3640	Africa Since 1800	3
HIST 4450	The United States And Latin America	3
HIST 4470	People And Politics In Mexico	3
HIST 4720	Modern Chinese History	3
HIST 4740	Modern Japanese History	3
HIST 4790	The Holocaust	3
Select ONE of the following:		
ANTH 2800	Cultural Anthropology	3
GEPL 2040	World Regional Geography	3
GEPL 4160	Patterns Of World Development	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in integrated social studies
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Social Studies, select the following:		
CI 4720	Best Practices for Teaching Social Studies	3
CI 4180	Methods of Teaching AYA Social Studies	3
CI 4280	Advanced Methods of Teaching AYA Social Studies	3
Professional Education Internship*, select the following:		
CI 4790	Seminar: Managing the Social Studies Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

Acceptable scores on all Ohio Assessment for Educators (http://www.oh.nesinc.com/) (OAE) tests specified by The State of Ohio for the licensure area are required prior to applying for Ohio teaching license.

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Concentration in Life Science

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		
MATH 1180	Reasoning With Mathematics	3
MATH 1210	Mathematics For Education Majors I	3
MATH 1750	Calculus For The Life Sciences With Applications I	4

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Life Science, select the following:		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
BIOL 3010	Molecular Genetics	3
EEES 3050	General Ecology	3
EEES 4150	Evolution	3
Supporting Subject-matter, select ALL of the following sets:		
Chemistry		
CHEM 1230	General Chemistry I	0,4
CHEM 1240	General Chemistry II	0,4
CHEM 1280	General Chemistry Lab I	1
CHEM 1290	General Chemistry Lab II	1
Earth and Space Science		
EEES 2020	Introduction to the Environment: Energy and Climate	3
Physics		
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
Mathematics		
MATH 1750	Calculus For The Life Sciences With Applications I	4
MATH 1760	Calculus For The Life Sciences With Applications II	3
MATH 2600	Introduction To Statistics	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education coursework.

- Enrolled as a regular student in BE in Adolescent and Young Adult Education with a concentration in life science
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Science, select the following:		
CI 4680	The Nature of Science	3
CI 4170	Methods of Teaching AYA Science	3

CI 4270	Advanced Methods of Teaching AYA Science	3
Professional Education Internship*, select the following:		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA of 2.7 or higher
- Completion of 90% of subject matter specializations
- Subject matter GPA of 2.7 or higher
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA of 2.7 or higher

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

Acceptable scores on all Ohio Assessment for Educators (http://www.oh.nesinc.com/) (OAE) tests specified by The State of Ohio for the licensure area are required prior to applying for Ohio teaching license.

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Concentration in Physics

For the Bachelor of Education degree, students must complete the following program requirements:

University Undergraduate Core Curriculum: 36 to 42 semester hours; university core curriculum courses may also fulfill specific program requirements listed below.

Pre-professional Education: A grade of C or higher in each course and a minimum GPA of 2.7 in pre-professional education courses is required.

Code	Title	Hours
Select the following:		
EDU 1700	Introduction to Education	3
EDP 3200	Applied Psychology For Teachers	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
Select ONE of the following:		3
MATH 1180	Reasoning With Mathematics	
MATH 1210	Mathematics For Education Majors I	
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	

Supporting Coursework

Code	Title	Hours
Select the following:		
EDU 1000	Orientation To Education	1
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
TSOC 3000	Schooling And Democratic Society	3
ENGL 1110	College Composition I	3

Subject-matter Specialization: A minimum GPA of 2.7 in the specialization is required.

Code	Title	Hours
Core Subject-matter in Physics, select the following:		
PHYS 1910	Frontiers Of Physics And Astronomy	3
PHYS 2130	Physics For Science And Engineering Majors I	4
PHYS 2135	Physics for Science and Engineering Majors I - Lab	1
PHYS 2140	Physics For Science And Engineering Majors II	4
PHYS 2145	Physics for Science and Engineering Majors II - Lab	1
PHYS 3180	Intermediate Laboratory	3
PHYS 3310	Modern Physics I	3
PHYS 3400	Physical Principles Of Energy Sources For Humans	3
Supporting Subject-matter, select ALL of the following sets:		
Chemistry		
CHEM 1230	General Chemistry I	4
CHEM 1240	General Chemistry II	4
Earth and Space Science		
ASTR 2010	Solar System Astronomy	3
EEES 2030	Introduction to the Environment Land-Use and Water	3
Life Science		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
Mathematics		
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 3610	Statistical Methods I	3

Admission to Professional Education: Admission is required prior to enrolling in Professional Education courses.

- Enrolled as a regular student in BE ADOL with a concentration in physics
- All pre-professional courses completed with a C or higher
- Pre-professional courses GPA of 2.7 or higher
- Subject-matter courses GPA of 2.7 or higher
- Minimum of 48 credits overall and 12 credits in residency at UToledo
- UT GPA of 2.7 or higher

Professional Education: Admission to professional education is required. A grade of C or higher in each course and a minimum GPA of 2.7 in Professional Education coursework is required. Courses may not be transferred from another institution.

Code	Title	Hours
Professional Education, select the following:		
CI 4190	Practicum I	1
CI 4290	Practicum II	1
CI 4390	Practicum III	1
RESM 4200	Classroom Assessment	3
Professional Education in Science, select the following:		
CI 4680	The Nature of Science	3
CI 4170	Methods of Teaching AYA Science	3
CI 4270	Advanced Methods of Teaching AYA Science	3
Professional Education Internship*, select the following:		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9

*Internship Eligibility: The following conditions must be met to be eligible to enroll in Professional Education Internship courses.

- All professional courses completed with a C or higher
- Professional education courses GPA >2.7
- Completion of 90% of subject matter specializations
- Subject matter GPA >2.7
- Completion of 100 credits and 30 credits residency at UToledo
- UT GPA >2.7

Additional Requirements

Current BCI & FBI background checks are required prior to beginning classroom experiences.

Acceptable scores on all Ohio Assessment for Educators (http://www.oh.nesinc.com/) (OAE) tests specified by The State of Ohio for the licensure area are required prior to applying for Ohio teaching license.

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Guides for Planning by Concentration

Below are guides for developing a plan of study for each concentration for the BE in Adolescent and Young Adult Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

Guide for Chemistry

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		Hours
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
	Hours	**18**
Third Term		
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	1
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
EDP 3200	Applied Psychology For Teachers	3
Social Science Core		3
	Hours	**15**
Fourth Term		
CHEM 2420	Organic Chemistry II	3

CHEM 2470	Organic Chemistry Laboratory II for Non-Majors	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Arts and Humanities and Non-US Diversity Core		3
	Hours	**15**
Fifth Term		
CHEM 3310	Analytical Chemistry	2
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4680	The Nature of Science	3
CI 4190	Practicum I	1
Social Sciences Core		3
	Hours	**16**
Sixth Term		
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
EEES 2030	Introduction to the Environment Land-Use and Water	3
RESM 4200	Classroom Assessment	3
CI 4170	Methods of Teaching AYA Science	3
CI 4290	Practicum II	1
	Hours	**14**
Seventh Term		
EEES 2020	Introduction to the Environment: Energy and Climate	3
MATH 2600	Introduction To Statistics	3
TSOC 3000	Schooling And Democratic Society	3
CI 4270	Advanced Methods of Teaching AYA Science	3
CI 4390	Practicum III	1
Diversity of US		3
	Hours	**16**
Eighth Term		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**122**

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Guide for Earth and Space Science

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		**Hours**
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
Social Science Core		3
	Hours	**16**
Third Term		
EEES 2020	Introduction to the Environment: Energy and Climate	3
ASTR 2010	Solar System Astronomy	3
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
EDP 3200	Applied Psychology For Teachers	3
Arts and Humanities Core		3
	Hours	**17**
Fourth Term		
ASTR 2020	Stars, Galaxies, And The Universe	3
ASTR 2050	Elementary Astronomy Laboratory	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Social Sciences Core		3
	Hours	**15**
Fifth Term		
EEES 2100	Fundamentals Of Geology	4
PHYS 1910	Frontiers Of Physics And Astronomy	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4680	The Nature of Science	3
CI 4190	Practicum I	1
Diversity of US		3
	Hours	**17**
Sixth Term		
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4

EEES 2030	Introduction to the Environment Land-Use and Water	3
RESM 4200	Classroom Assessment	3
CI 4170	Methods of Teaching AYA Science	3
CI 4290	Practicum II	1
	Hours	**14**
Seventh Term		
MATH 2600	Introduction To Statistics	3
TSOC 3000	Schooling And Democratic Society	3
CI 4270	Advanced Methods of Teaching AYA Science	3
CI 4390	Practicum III	1
Non-US Diversity		3
	Hours	**13**
Eighth Term		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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Guide for Integrated Language arts

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		**Hours**
ENGL 1110	College Composition I	3
MATH 1210	Mathematics For Education Majors I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
Social Sciences Core		3
Natural Science Core		3
	Hours	**16**
Second Term		
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
MATH 1220	Mathematics For Education Majors II	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
Natural Science Core		3
Natural Science Core Lab		1
	Hours	**16**
Third Term		
COMM 2150	Digital Design for Media Communication	3
ENGL 3790	Foundations Of Literary Study	3
EDP 3200	Applied Psychology For Teachers	3
Language Arts Elective in Core		3
Language Arts Elective in Communication		3
Arts and Humanities Core		3
	Hours	**18**
Fourth Term		
ENGL 3810	Shakespeare I	3
ENGL 4090	Current Writing Theory	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Social Sciences Core		3
Diversity in US		3
	Hours	**15**
Fifth Term		
ENGL 3600	American Literary Traditions	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4320	Literature For Young Adults	3
CI 4190	Practicum I	1
Language Arts Elective in Writing		3
University Core Elective		3
	Hours	**16**
Sixth Term		
ENGL 3610	British Literary Traditions	3
ENGL 3770	World Literature And Cultures	3
RESM 4200	Classroom Assessment	3
CI 4150	Methods of Teaching AYA English Language Arts	3
CI 4290	Practicum II	1
Elective		1
	Hours	**14**
Seventh Term		
TSOC 3000	Schooling And Democratic Society	3
CI 4250	Advanced Methods of Teaching AYA English Language Arts	3
CI 4390	Practicum III	1
Language Arts Elective in Non-western Literature		3
Elective		3
	Hours	**13**
Eighth Term		
CI 4730	Seminar Managing the English Language Arts Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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Guide for Integrated Mathematics

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		Hours
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
Social Sciences Core		3
Natural Science Core		3
	Hours	**17**
Second Term		
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
MATH 2190	Foundations of Mathematics	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
	Hours	**16**
Third Term		
MATH 2850	Elementary Multivariable Calculus	4
MATH 3440	Fundamentals Of Modern Geometry I	3
MATH 3510	History Of Mathematics	3
EDP 3200	Applied Psychology For Teachers	3
Arts and Humanities Core		3
	Hours	**16**
Fourth Term		
MATH 3450	Fundamentals Of Modern Geometry II	3
MATH 2890	Numerical Methods And Linear Algebra	3
MATH 3320	Introduction To Abstract Algebra	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Social Sciences Core		3
	Hours	**15**
Fifth Term		
MATH 4680	Introduction To Theory Of Probability	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4550	Teaching Problem Solving In Mathematics	3
CI 4190	Practicum I	1
Natural Science Core		3
Natural Science Core Lab		1
	Hours	**14**
Sixth Term		
MATH 3610	Statistical Methods I	3
RESM 4200	Classroom Assessment	3
CI 4160	Methods of Teaching AYA Mathematics	3
CI 4290	Practicum II	1
Diversity of US		3
Elective		4
	Hours	**17**
Seventh Term		
MATH 4380	Discrete Structures And Analysis Of Algorithms	3
TSOC 3000	Schooling And Democratic Society	3
CI 4260	Advanced Methods of Teaching AYA Mathematics	3
CI 4390	Practicum III	1
Non-US Diversity		3
	Hours	**13**
Eighth Term		
CI 4740	Seminar: Managing the Mathematics Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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Guide for Integrated Science

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		Hours
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3

ETPT 2020	Technology And Multimedia In Educational Environments	3
	Hours	**18**
Third Term		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
EDP 3200	Applied Psychology For Teachers	3
Social Sciences Core and Diversity of US		3
	Hours	**16**
Fourth Term		
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Arts and Humanities Core		3
	Hours	**16**
Fifth Term		
CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	1
ASTR 2010	Solar System Astronomy	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4680	The Nature of Science	3
CI 4190	Practicum I	1
	Hours	**14**
Sixth Term		
BIOL 3010	Molecular Genetics	3
RESM 4200	Classroom Assessment	3
CI 4170	Methods of Teaching AYA Science	3
CI 4290	Practicum II	1
Social Sciences Core		3
Non-US Diversity		3
	Hours	**16**
Seventh Term		
EEES 3050	General Ecology	3
EEES 2030	Introduction to the Environment Land-Use and Water	3
MATH 2600	Introduction To Statistics	3
TSOC 3000	Schooling And Democratic Society	3
CI 4270	Advanced Methods of Teaching AYA Science	3
CI 4390	Practicum III	1
	Hours	**16**
Eighth Term		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
Ninth Term		
EEES 2100	Fundamentals Of Geology	4
PHYS 1910	Frontiers Of Physics And Astronomy	3
ASTR 2010	Solar System Astronomy	3
ASTR 2050	Elementary Astronomy Laboratory	1
EEES 2020	Introduction to the Environment: Energy and Climate	3
	Hours	**14**
	Total Hours	**138**

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Guide for Integrated Social Studies

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		**Hours**
HIST 2010	America To 1865	3
SOC 1010	Introduction To Sociology	3
ENGL 1110	College Composition I	3
MATH 1180	Reasoning With Mathematics	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
HIST 2020	America From 1865	3
HIST 1050	World History To 1500	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
EDU 1700	Introduction to Education	3
	Hours	**15**
Third Term		
HIST 2000	Methods Seminar - WAC	4
ECON 1010	Introduction To Economic Issues	3
PSY 1010	Principles Of Psychology	3
EDP 3200	Applied Psychology For Teachers	3
Social Studies Electives in World History		3
	Hours	**16**
Fourth Term		
GEPL 2010	Fundamentals Of Geography	3

PSC 1200	American National Government	3
ECON 1150	Principles Of Macroeconomics	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Natural Science Core		3
Natural Science Core Lab		1
	Hours	**16**
Fifth Term		
HIST 3310	Ethnic America	3
PSC 2700	Principles Of International Relations	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4720	Best Practices for Teaching Social Studies	3
CI 4190	Practicum I	1
Natural Science Core		3
	Hours	**16**
Sixth Term		
ARTH 3250	Topics In Asian Art	3
RESM 4200	Classroom Assessment	3
CI 4180	Methods of Teaching AYA Social Studies	3
CI 4290	Practicum II	1
Social Studies Elective in American History		3
Social Studies Elective in Geography		3
	Hours	**16**
Seventh Term		
TSOC 3000	Schooling And Democratic Society	3
CI 4280	Advanced Methods of Teaching AYA Social Studies	3
CI 4390	Practicum III	1
Diversity of US		3
Social Studies Elective in Non-US History		3
	Hours	**13**
Eighth Term		
CI 4790	Seminar: Managing the Social Studies Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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Guide for Life Science

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		**Hours**
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
MATH 1750	Calculus For The Life Sciences With Applications I	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
MATH 1760	Calculus For The Life Sciences With Applications II	3
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
	Hours	**17**
Third Term		
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
PHYS 2070	General Physics I	4
PHYS 2075	General Physics I - Lab	1
EDP 3200	Applied Psychology For Teachers	3
Social Sciences Core		3
	Hours	**16**
Fourth Term		
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
PHYS 2080	General Physics II	4
PHYS 2085	General Physics II - Lab	1
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Arts and Humanities Core		3
	Hours	**16**
Fifth Term		
BIOL 3010	Molecular Genetics	3
EEES 3050	General Ecology	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4680	The Nature of Science	3
CI 4190	Practicum I	1
Social Science Core and Diversity in US		3
	Hours	**16**
Sixth Term		
EEES 4150	Evolution	3

EEES 2020	Introduction to the Environment: Energy and Climate	3
RESM 4200	Classroom Assessment	3
CI 4170	Methods of Teaching AYA Science	3
CI 4290	Practicum II	1
Elective		1
	Hours	**14**
Seventh Term		
MATH 2600	Introduction To Statistics	3
TSOC 3000	Schooling And Democratic Society	3
CI 4270	Advanced Methods of Teaching AYA Science	3
CI 4390	Practicum III	1
Non-US Diversity		3
	Hours	**13**
Eighth Term		
CI 4760	Seminar: Managing the Science Classroom	3
CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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Guide for Physics

Below is a guide for developing a plan of study for the Bachelor of Education. Students should review their degree audit and work with their advisor to identify specific courses to fulfill program requirements.

First Term		**Hours**
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
MATH 1830	Calculus I For Mathematicians, Scientists And Educators	4
ENGL 1110	College Composition I	3
EDU 1000	Orientation To Education	1
Arts and Humanities Core		3
	Hours	**16**
Second Term		
PHYS 1910	Frontiers Of Physics And Astronomy	3
MATH 1840	Calculus II For Mathematicians, Scientists And Educators	4
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
EDU 1700	Introduction to Education	3
ETPT 2020	Technology And Multimedia In Educational Environments	3
	Hours	**16**
Third Term		
PHYS 2130	Physics For Science And Engineering Majors I	4
PHYS 2135	Physics for Science and Engineering Majors I - Lab	1
BIOL 2150	Fundamentals Of Life Science: Diversity Of Life, Evolution And Adaptation	4
BIOL 2160	Fundamentals Of Life Science Laboratory: Diversity Of Life, Evolution And Adaptation	1
EDP 3200	Applied Psychology For Teachers	3
Social Sciences Core		3
	Hours	**16**
Fourth Term		
PHYS 2140	Physics For Science And Engineering Majors II	4
PHYS 2145	Physics for Science and Engineering Majors II - Lab	1
EEES 2030	Introduction to the Environment Land-Use and Water	3
SPED 2040	Perspectives In The Field Of Exceptionalities	3
Arts and Humanities Core		3
Elective		1
	Hours	**15**
Fifth Term		
PHYS 3310	Modern Physics I	3
MATH 3610	Statistical Methods I	3
CI 4490	Content Area Reading For Adolescent Young Adult, Multi-Age, And Career And Technical Education Teach	3
CI 4680	The Nature of Science	3
CI 4190	Practicum I	1
Diversity in US Core		3
	Hours	**16**
Sixth Term		
PHYS 3180	Intermediate Laboratory	3
ASTR 2010	Solar System Astronomy	3
RESM 4200	Classroom Assessment	3
CI 4170	Methods of Teaching AYA Science	3
CI 4290	Practicum II	1
Non-US Diversity Core		3
	Hours	**16**
Seventh Term		
PHYS 3400	Physical Principles Of Energy Sources For Humans	3
TSOC 3000	Schooling And Democratic Society	3
CI 4270	Advanced Methods of Teaching AYA Science	3
CI 4390	Practicum III	1
Social Science Core		3
	Hours	**13**
Eighth Term		
CI 4760	Seminar: Managing the Science Classroom	3

CI 4930	Internship/Student Teaching	9
	Hours	**12**
	Total Hours	**120**

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- PLO 1: AYA teacher candidates demonstrate knowledge of the content area for which they have instructional responsibility.
- PLO 2: Teacher candidates can design learning environments that promote high levels of learning and achievement for all students.
- PLO 3: Teacher candidates can create plans for effective instruction that advances the learning of each individual student.
- PLO 4: Teacher candidates utilize varied assessments to inform instruction, evaluate and ensure student learning.
- PLO 5: Teacher candidates demonstrate they can collaborate and communicate with other educators, administrators, students, parents and the community to support student learning.
- PLO 6: Teacher candidates demonstrate that they can assume responsibility for professional growth, performance, and involvement as an individual, and as a member of a learning community.
- PLO 7: Teacher candidates utilize content appropriate materials, instructional strategies, and student learning activities.