

**SINGLE FIELD SCIENCE SPECIALIZATION**

Bachelor of Science in Education; Leads to grades 7-12 licensure. This degree program is designed to be completed in 4 years but is subject to change due to many variables that may cause a delay towards degree completion/graduation.

**BG PERSPECTIVE (BGP) REQUIREMENTS:**

Course \_\_\_\_\_ Credits \_\_\_\_\_

**Must complete at least 1 course in each of the following:**

English Composition and Oral Communication

\_\_\_\_\_

Quantitative Literacy

\_\_\_\_\_

**Must complete at least 2 courses in each of the following:**

Humanities and the Arts

\_\_\_\_\_

\_\_\_\_\_

Natural Sciences - at least one Lab Science required

\_\_\_\_\_

\_\_\_\_\_

Social and Behavioral Sciences

\_\_\_\_\_

\_\_\_\_\_

**Complete total required BGP credit hours by selecting courses from any of the above categories:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**UNIVERSITY REQUIREMENTS**

**Note:** Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

Cultural Diversity in the U.S. \_\_\_\_\_

International Perspective \_\_\_\_\_

Composition Requirement:  
 \_\_\_\_\_ WRIT 1120 Research Writing \_\_\_\_\_

*Total BGP Credits: Must be at least 36*

**CONTENT FOR TEACHING SPECIALTY 53-58 HRS**

_____ BIOL 1040 Introduction to Biology or BIOL 2050 Concepts in Biology II **	4
_____ GEOL 1010 Earth Science	3
_____ CHEM 1230 & 1240 or 1350 General Chem	5
_____ PHYS 2010 College Physics I or PHYS 2110 University Physics I	5
_____ ASTR 2010 Modern Astronomy	3
_____ MATH 1150 Introduction to Statistics	3

In addition to the 23 hours above, ONE single field must be completed. See reverse side for additional coursework.

\*\*Life Sciences Single Field students must take Biology 2050.

**PROFESSIONAL EDUCATION**

**33 HRS**

*(Take blocked courses concurrently. "C" or higher required in all Professional Ed courses.)*

**Year I: What does it mean to be a teacher?**

**Take one group of courses each semester.**

_____ EDTL 2010 Introduction to Education	3
_____ EDTL 2300 Introduction to Educational Technology	2

_____ EDTL 2750 Intro to Teaching Science (Prereq for EDTL 3400)	3
_____ HDFS 1930 or PSYC 1010 (prereq for EDFI 3020)	3 - 4

**Year II: Who are my students?**

**Take one group of courses each semester.**

_____ EDTL 2020 Teaching Adolescents	3
_____ EDFI 3020 Educational Psychology	3
_____ EDIS 2310 Teaching Students w/Exceptionalities	3

_____ EDFI 2980 Schools, Society, & Cultural Diversity	3
_____ EDFI 2990 Field Exp in Cultural & Community Contexts	1

**Year III: How do I teach so all students can learn?**

**Methods Block 1, Spring only\***

_____ EDTL 3400 Instruction & Differentiation Mid/HS	3
_____ EDTL 3021 Digital Tech for Middle/HS Teachers	3
_____ EDTL 4200 Disciplinary Literacy	3

**Year IV - The Professional Year: Who am I as a teacher?**

**Methods Block 2, Fall only\***

_____ EDTL 4181 Practicum in Secondary School Settings	3
_____ EDFI 4020 Assessment & Evaluation	3
_____ EDTL 4750 Science Methods	3
_____ EDL 4090 Organization & Admin of Schools	3

**STUDENT TEACHING\***

_____ EDTL 4850 Adv Sem in Classroom Instr & Mgmt: Science	3
_____ EDTL 4970 Student Teaching Internship	12

**\* See eligibility criteria on p.2 for each block**

**SINGLE FIELD AREAS - SELECT ONE AREA**

**LIFE SCIENCE**

**31 HRS**

_____	BIOL 2040 Concepts in Biology I	4
_____	BIOL 3130 Microbiology or	
	BIOL 4200 Animal Behavior	4
_____	BIOL 3310 Human Anatomy and Physiology I or	
	BIOL 3320 Human Anatomy and Physiology II	4
_____	BIOL 3430 General Botany or BIOL 4220 Plant Ecology	4
_____	BIOL 3500 Genetics	4
_____	BIOL 3540 Populations and Community Ecology	3
_____	BIOL 4500 Teaching Evolution & Nature of Science	3
_____	CHEM 1270 & 1280 General Chemistry & Lab or	
	CHEM 1370 & 1380 General Chemistry & Lab	5

**PHYSICAL SCIENCES: CHEMISTRY**

**32 HRS**

_____	CHEM 1270 & 1280 General Chemistry & Lab or	
	CHEM 1370 & 1380 General Chemistry & Lab	5
_____	CHEM 2010 Lab Techniques	3
_____	CHEM 3060 Organic Chemistry	4
_____	CHEM 3080 & 3090 Basic Biochemistry	4
_____	CHEM 3130 Special Topics in Chemistry	3
_____	CHEM 3520 Physical Chemistry	3
_____	MATH 2320 Calculus & Analytical Geometry	5
_____	PHYS 2020 College Physics II or	
	PHYS 2120 University Physics II	5

**EARTH SCIENCE**

**30 HRS**

_____	ASTR 2120 The Solar System	3
_____	ENVS 4150 Investigating the Earth	3
_____	GEOL 1050 Life Through Time	4
_____	GEOL 1060 Climate Change	4
_____	GEOG 1250 Weather/Climate	3
_____	GEOL 3060 Rocks and Minerals	4
_____	GEOL 4930 Field Experience	6
_____	SEES 3000 Geospacial Science	3

**PHYSICAL SCIENCES: PHYSICS**

**30 HRS**

_____	ASTR 2120 The Solar System	3
_____	MATS 2320 Calculus & Analytical Geometry	5
_____	MATS 4010 Survey of Material Science I	3
_____	PHYS 2020 College Physics II or	
	PHYS 2120 University Physics II	5
_____	PHYS 3010 & 3110 Modern Physics & Lab	4
_____	PHYS 3020 & 3120 Thermal Physics and Optics & Lab	4
_____	PHYS 3500 Musical Acoustics	3
_____	PHYS 3600 Environmental Physics	3

The chart below indicates Benchmarks required for admission to the AYA Program, Block 1 (spring of Junior year), Block 2 (fall of Senior year), Student Teaching, and Graduation.

Benchmarks for Teaching Progression	Required cumulative GPA	Required content GPA	"C" or higher in classes	Required classes	Content course work completed	OAE	edTPA
<b>Program Admission</b>	3.0	N/A	<ul style="list-style-type: none"> <li>•EDTL 2010</li> <li>•EDTL 2300</li> <li>•EDTL 2750</li> <li>•PSYC 1010</li> <li>•WRIT 1120</li> <li>•EDTL 2020</li> <li>•EDFI 3020</li> <li>•EDIS 2310</li> <li>•EDFI 2980/90</li> </ul>	45	N/A	N/A	N/A
<b>Methods Block 1 Eligibility</b>	3.0	2.8	N/A	N/A	N/A	N/A	N/A
<b>Methods Block 2 Eligibility</b>	3.0	2.8	<ul style="list-style-type: none"> <li>•EDTL 3400</li> <li>•EDTL 3021</li> <li>•EDTL 4200</li> </ul>	90 semester hours	80% of content coursework completed	Pass OAE(s) or have taken at least 2 times by July 1	N/A
<b>Student Teaching Eligibility</b>	3.0	2.8	<ul style="list-style-type: none"> <li>•EDTL 4750</li> <li>•EDTL 4181</li> <li>•EDL 4090</li> <li>•EDFI 4020</li> </ul>	100 semester hours	N/A	Pass OAE by mid-December	N/A
<b>Graduation Requirements</b>	N/A	N/A	<ul style="list-style-type: none"> <li>•EDTL 4850</li> <li>•EDTL 4970</li> </ul>	N/A	100% of content coursework completed	N/A	Complete edTPA

### Additional Policies

1. Transfer Students must complete 15 semester hours at BGSU prior to program admission.
2. BCI/FBI background checks must be renewed annually and sent directly to the Office of Education Preparation and Partnerships by July 1.
3. No courses in "Professional Education" may be taken S/U, and no more than one course in "Content for Teaching Specialty" may be taken S/U.

### General Advice for Success

1. Monitor your GPA regularly using your degree audit.
2. Meet with your academic advisor at least once per semester to ensure you are on track. If you have difficulty connecting with your advisor, contact the Program Coordinator.
3. Read course descriptions on the BG web page under "Academics." These descriptions list the courses that are prerequisites for subsequent classes, the GPA required, whether the course includes a field experience, etc.
4. Freshman and Sophomore Years:
  - a. Prioritize coursework and studying.
  - b. Complete 1000 & 2000-level classes, along with major content courses. These are prerequisites for other courses you will need.
  - c. Education Psychology is a prerequisite for program admission, EDTL 3400, and several upper-level classes, as shown in the table.