

**DUAL FIELD SCIENCE**

Bachelor of Science in Education; Leads to licensure in grades 7-12. This degree program is designed to be completed in 8-9 semesters. Changing majors, academic issues or other unforeseen circumstances may require additional semesters for completion.

**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**

**60-62 HRS**

- \_\_\_\_\_ BIOL 1040 Introduction to Biology ## or BIOL 2050 Concepts in Biology II ## \*\* 4
- \_\_\_\_\_ GEOL 1010 Earth Science 3
- \_\_\_\_\_ CHEM 1250 or 1350 General Chemistry ## 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 23-24 hours above, TWO dual fields must be completed. See reverse side for additional coursework.

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

**SELECT ONE**

- \_\_\_\_\_ Earth Sciences and Chemistry
- \_\_\_\_\_ Earth Sciences and Physics
- \_\_\_\_\_ Life Sciences and Chemistry
- \_\_\_\_\_ Life Sciences and Earth Sciences
- \_\_\_\_\_ Life Sciences and Physics
- \_\_\_\_\_ Physical Sciences—Chemistry and Physics

**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?**

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

**Take one block each semester.**

_____	EDTL 2750 Intro to Teaching Science (Prereq for EDTL 3400)	3
_____	HDFS 1930 or PSYC 1010 (prereq for EDFI 3030)	3 - 4

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

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

**Take one block each semester.**

_____	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?**

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

**Take one block each semester.**

_____	EDAS 4090 Organization & Admin of Schools	3
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**Year IV - The Professional Year:**

**"Who am I as a teacher?"**

	<b>METHODS BLOCK (FALL ONLY)</b>	<b>12 HRS</b>
<b>(See eligibility criteria on pg 2.)</b>		
_____	EDTL 4020 Assessment & Evaluation	3
_____	EDTL 4181 Practicum in Secondary Settings	3
_____	EDTL 4200 Content Literacy	3
_____	EDTL 4750 Science Methods	3

**STUDENT TEACHING (See eligibility criteria on pg 2.)**

_____	EDTL 4850 Advanced Seminar in the Teaching of Science	3
_____	EDTL 4970 Student Teaching Internship	12

## DUAL FIELD AREAS - SELECT TWO AREAS

### LIFE SCIENCE

	18 HRS
_____ BIOL 2040 Concepts in Biology I	4
_____ BIOL 3430 Botany <b>OR</b> BIOL 4220 Plant Ecology	4
_____ BIOL 3500 Genetics	4
_____ BIOL 3540 Populations and Community Ecology	3
_____ BIOL 4500 Teaching Evolution & Nature of Science	3

### CHEMISTRY

	19 HRS
_____ CHEM 1270 & 1280 General Chemistry & Lab <b>OR</b>	
_____ CHEM 1370 & 1380 General Chemistry & Lab	5
_____ CHEM 3060 Organic Chemistry	4
_____ CHEM 3080 & 3090 Basic Biochemistry	4
_____ CHEM 3130 Special Topics in Chemistry	3
_____ CHEM 2010 Quantitative Chemical Analysis	3

### EARTH SCIENCE

	20 HRS
_____ ASTR 2120 The Solar System	3
_____ GEOG 1250 Weather/Climate	3
_____ GEOL 1050 Life Through Time	4
_____ GEOL 3060 Rocks and Minerals	4
_____ SEES 3000 Geospacial Science	3
_____ ENV5 4150 Investigating the Earth	3

### PHYSICS

	18 HRS
_____ ASTR 2120 The Solar System	3
_____ MATS 4010 Material Science	3
_____ PHYS 2020 College Physics II or	
_____ PHYS 2120 University Physics II	5
_____ PHYS 3010 & 3110 Modern Physics & Lab	4
_____ PHYS 3600 Environmental Physics <b>OR</b>	
_____ PHYS 3500 Musical Acoustics	4

### IMPORTANT CHECKLISTS

- I. **Application for Methods and Student Teaching** (1)  
is made at a sign-up meeting held the FIRST week (2)  
of each semester for students planning to take  
Methods the following semester. Information is  
available in Room 101 Education Building. You must  
be fully eligible for methods by July 1.

- II. **AYA Methods Eligibility Requirements:**
- \_\_\_\_\_ Attainment of 90 semester hours
  - \_\_\_\_\_ 3.0 cumulative and 2.8 major GPA
  - \_\_\_\_\_ 80% of content coursework complete
  - \_\_\_\_\_ Evidence of meeting program OAE requirements (4)
  - \_\_\_\_\_ All course prereqs completed
  - \_\_\_\_\_ "C" or better in GSW 1120
  - \_\_\_\_\_ "C" or better in EDTL 2010
  - \_\_\_\_\_ "C" or better in EDTL 2300
  - \_\_\_\_\_ "C" or better in EDTL 2710, 2740, 2750,  
or 2760 (per major specialty)
  - \_\_\_\_\_ "C" or better in HDFS 1930 or PSYC 1010
  - \_\_\_\_\_ "C" or better in EDTL 2020 (5)
  - \_\_\_\_\_ "C" or better in EDFI 3020
  - \_\_\_\_\_ "C" or better in EDIS 2310
  - \_\_\_\_\_ "C" or better in EDFI 2980
  - \_\_\_\_\_ "C" or better in EDFI 2990
  - \_\_\_\_\_ "C" or better in EDTL 3400
  - \_\_\_\_\_ "C" or better in EDTL 3021
  - \_\_\_\_\_ "C" or better in EDAS 4090

- III. **Prerequisites for Student Teaching:**
- \_\_\_\_\_ 100 semester hours completed (6)
  - \_\_\_\_\_ 3.0 accumulative GPA
  - \_\_\_\_\_ 2.8 content specialty GPA
  - \_\_\_\_\_ Program OAE exam criteria met
  - \_\_\_\_\_ "C" or better in all methods  
coursework
  - \_\_\_\_\_ No INCs in student teaching course prereqs (7)
  - \_\_\_\_\_ Positive recommendations from Cooperating  
Teacher, University Mentor, & campus instructors

### IMPORTANT REMINDERS!

**This is a competitive program. Your GPA is critical!**  
**Meet with your advisor at least once per semester  
to ensure you are on track.** If you have  
trouble connecting with your advisor, contact either  
the Office of Student & Academic Services, 102  
Education, or the Program Coordinator.

(3) **Read course descriptions on the BG homepage  
under "Academics."** These tell you which courses  
are prerequisites for subsequent classes, the GPA  
required, whether the course includes a field expe  
rience, etc.

(4) **Freshman & Sophomore Years:**

- a. Prioritize coursework & studying.
- b. Complete 1000 & 2000-level classes, along  
with major content courses. These are  
prereqs for other courses you'll need.
- c. Ed Psych is a prereq for program admis-  
sion, EDTL 3400, and several upper  
level classes.

(5) **You are a pre-major in AYA education until you  
meet criteria for Program Admission:**

- 3.0 cumulative GPA
- Completion of GSW 1120, Year 1 block  
courses, EDTL 2020, EDFI 3030, & EDIS 2310  
with a "C" or better.
- Writing sample
- Dispositions check
- Possible interview

You may apply again later if not admitted.  
(6) **Junior Year: You will need a 3.0 cumulative GPA  
and 2.8 concentration-area GPAs to enroll in EDTL  
3400.**

a. You must also have taken all course  
prerequisites and completed them with a  
grade of "C" or better.

(7) **Senior Year: Both Methods and Student Teaching  
require 3.0 cumulative and 2.8 concentration-area  
GPAs.** See eligibility requirements at left.

(8) **Transfer students** must complete 15 semester hours  
at BGSU prior to program admission.