

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?"

METHODS BLOCK (FALL ONLY)	12 HRS
(See eligibility criteria on pg 2.)	
_____ 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 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

CHEMISTRY

	19 HRS
_____ CHEM 1270 & 1280 General Chemistry & Lab OR	
_____ 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 OR	
_____ 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.