

**ADOLESCENCE to YOUNG ADULT (Secondary) EDUCATION  
SINGLE FIELD SCIENCES**

(Earth Sciences; Life Sciences; Physical Science—Chemistry; Physical Science—Physics)

School of Teaching and Learning

College of Education and Human Development

NAME \_\_\_\_\_

**Fall 2014**

Bachelor of Science in Education; Leads to single field science licensure in grades 7-12 in the one area completed. This degree program is designed to be completed in 4 years. Changing majors, academic issues or other unforeseen circumstances may require additional semesters for completion.

<b>CONTENT FOR TEACHING SPECIALTY</b>	<b>53-58 HRS</b>	<b>PROFESSIONAL EDUCATION</b>	<b>52 HRS</b>
_____ BIOL 1040 Introduction to Biology ## or		_____ EDTL 2010 Introduction to Education @	2
_____ BIOL 2050 Concepts in Biology II ## **	4-5	_____ EDTL 2300 Introduction to Educ. Technology @	2
_____ GEOL 1010 Earth Science	3	_____ EDIS 2310 Teaching Students w/Exceptionalities @	3
_____ CHEM 1250 or 1350 General Chemistry ##	5	_____ EDTL 2750 Introduction to the Tchg. of Science @	3
_____ PHYS 2010 College Physics I ## or		_____ EDFI 3030 Educational Psychology Applied	
_____ PHYS 2110 University Physics I ##	5	_____ to Adolescent Development @	3
_____ ASTR 2010 Modern Astronomy	3	_____ (must take PSYC 1010 ## or HDFS 1930Q ## first)	
_____ MATH 1150 Introduction to Statistics	3	_____ EDTL 3400 Teaching Adolescents @, \$	3
		_____ EDFI 4080 Education in a Pluralistic Society @, ##	3
		_____ EDAS 4090 Organization & Administration @	3

In addition to the 23-24 hours above, ONE single field must be completed. See reverse side for additional coursework.

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

<b>Methods Block (courses taken concurrently)</b>	
_____ EDFI 4020 Assessment and Evaluation @	3
_____ EDTL 4180 Practicum in Secondary Schl. Settings @	3
_____ EDTL 4200 Content Reading @	3
_____ EDTL 4670 Computer Utilization @	3
_____ EDTL 4750 Science Methods @	3

<b>Student Teaching (courses taken concurrently)</b>	
_____ EDTL 4850 Adv Seminar in the Tchg. of Science @	3
_____ EDTL 4970 Student Teaching	12

<b>COLLEGE REQUIREMENTS</b>	<b>3 HRS</b>
_____ COMM 1020 @	3

<b>BG PERSPECTIVE REQUIREMENTS</b>	
_____ GSW 1120 @	(_____ GSW 1100/1110)

**Quantitative Literacy (Group C Recommended)**  
\_\_\_\_\_ Elective \_\_\_\_\_

**Natural Science**  
\_\_\_\_\_ Elective \_\_\_\_\_  
\_\_\_\_\_ Elective \_\_\_\_\_

**Social and Behavioral Sciences**  
\_\_\_\_\_ Elective \_\_\_\_\_  
\_\_\_\_\_ Elective \_\_\_\_\_

**Humanities and Arts**  
\_\_\_\_\_ Elective \_\_\_\_\_  
\_\_\_\_\_ Elective \_\_\_\_\_

**Cultural Diversity in the United States**  
\_\_\_\_\_ Elective \_\_\_\_\_

**Additional BG Perspective Course**  
\_\_\_\_\_ Elective \_\_\_\_\_

One BG Perspective course from above is an International Perspective course

Retention/Full Acceptance, Methods, Student Teaching, and Graduation Requirements are listed on the attached sheet.

For minor requirements in Biology, Chemistry, Physics, or Geology, consult your catalog.

**NOTE**  
Undergraduate students or degree holders seeking initial licensure must meet all specified requirements, including satisfactory completion of the OAE exams.

## Can also be used to fulfill elective in BG Perspective.  
\$ Extensive Prerequisites  
@ Grade of "C" or better required.

## Single Field Areas - Select One Area

<b>LIFE SCIENCES</b>	<b>32 HRS</b>	<b>EARTH SCIENCES</b>	<b>30 HRS</b>
_____ BIOL 2040 Concepts in Biology I	5	_____ ASTR 2120 The Solar System	3
_____ BIOL 3130 Microbiology or	4	_____ ENV5 4150 Investigating the Earth	3
_____ BIOL 4200 Animal Behavior		_____ GEOL 1050 Life Through Time	4
_____ BIOL 3310 Human Anatomy and Physiology I <b>or</b>		_____ GEOL 1060 Climate Change	4
_____ BIOL 3320 Human Anatomy and Physiology II	4	_____ GEOG 1250 Weather/Climate	3
_____ BIOL 3430 General Botany <b>or</b>		_____ GEOL 3060 Rocks and Minerals	4
_____ BIOL 4220 Plant Ecology	4	_____ GEOL 4930 Field Experience	6
_____ BIOL 3500 General Genetics	4	_____ SEES 3000 Geospacial Science	3
_____ BIOL 3540 Populations and Community Ecology	3		
_____ BIOL 4500 Teaching Evolution & Nature of Science	3		
_____ CHEM 1270 & 1280 General Chemistry & Lab <b>or</b>			
_____ CHEM 1370 & 1380 General Chemistry & Lab	5		
<b>PHYSICAL SCIENCES: CHEMISTRY</b>		<b>PHYSICAL SCIENCES: PHYSICS</b>	
	<b>32 HRS</b>		<b>30 HRS</b>
_____ CHEM 1270 & 1280 General Chemistry & Lab <b>or</b>		_____ ASTR 2120 The Solar System	3
_____ CHEM 1370 & 1380 General Chemistry & Lab	5	_____ MATH 2320 Calculus & Analytical Geometry	5
_____ CHEM 2010 Lab Techniques	3	_____ MATS 4010 Survey of Material Science I	3
_____ CHEM 3060 Organic Chemistry	4	_____ PHYS 2020 College Physics II <b>or</b>	
_____ CHEM 3080 & 3090 Basic Biochemistry	4	_____ PHYS 2120 University Physics II	5
_____ CHEM 3130 Special Topics in Chemistry	3	_____ PHYS 3010 & 3110 Modern Physics & Lab	4
_____ CHEM 3520 Physical Chemistry	3	_____ PHYS 3020 & 3120 Thermal Physics and Optics & Lab	4
_____ MATH 2320 Calculus & Analytical Geometry	5	_____ PHYS 3500 Musical Acoustics	3
_____ PHYS 2020 College Physics II <b>or</b>		_____ PHYS 3600 Environmental Physics	3
_____ PHYS 2120 University Physics II	5		

### **THREE IMPORTANT CHECKLISTS**

- I. Application for methods and student teaching is made at a sign-up meeting held the second Thursday of each semester for students planning to student teach the following semester. Information is available in Room 101 Education Building.
- II. AYA METHODS ADMISSION REQUIREMENTS
- \_\_\_\_\_ Attainment of 60 semester hours
  - \_\_\_\_\_ "C" or better in EDHD 2010
  - \_\_\_\_\_ "C" or better in GSW 1120
  - \_\_\_\_\_ "C" or better in COMM 1020
  - \_\_\_\_\_ "C" or better in EDTL 2300
  - \_\_\_\_\_ "C" or better in EDTL 2750
  - \_\_\_\_\_ "C" or better in EDFI 3030
  - \_\_\_\_\_ "C" or better in EDIS 2310
  - \_\_\_\_\_ "C" or better in EDTL 3400
  - \_\_\_\_\_ Accumulative GPA of at least 2.8
  - \_\_\_\_\_ Content Specialty GPA of at least 2.8
  - \_\_\_\_\_ Completed 80% of content course requirements.
  - \_\_\_\_\_ Transfer students must complete 15 semester hours at BGSU.
  - \_\_\_\_\_ Evidence of passing score(s) on OAE content licensure exam(s) by July 1 preceding methods.
- III. PREREQUISITES FOR STUDENT TEACHING
- \_\_\_\_\_ Completion of 90 semester hours
  - \_\_\_\_\_ Accumulative GPA of at least 2.8
  - \_\_\_\_\_ Content Specialty GPA of at least 2.8
  - \_\_\_\_\_ Completion of the following courses with a grade of "C" or better:
    - \_\_\_\_\_ EDFI 4020
    - \_\_\_\_\_ EDTL 4180
    - \_\_\_\_\_ EDTL 4200
    - \_\_\_\_\_ EDTL 4750
    - \_\_\_\_\_ EDTL 4670
  - \_\_\_\_\_ No incompletes in courses that are prerequisites for student teaching
  - \_\_\_\_\_ Successful completion of field and clinical experiences or recommendations from field and clinical supervisors

### REMINDERS:

- (1) Check prerequisites before registering for classes. For example, EDTL 3400 has an extensive list, including overall & major GPA's of at least a 2.8 and completion of EDTL 2750, EDFI 3030, etc. Plan ahead to ensure completion of prereqs!
- (2) PSYC 1010 is a prerequisite to EDFI 3030, a required education course, and can be used as a Social Science elective in BG Perspective; EDFI 4080 is a required education course and can also be used as a Cultural Diversity elective in BG Perspective. It may be taken after methods.
- (3) Meet with your advisor at least once each year. Names of advisors can be obtained via MyBGSU web page, click on "My Advisor." If you cannot connect with your advisor, contact Student & Academic Services or the Program Coordinator.

- (4) **SENIOR YEAR:** You must apply for graduation on-line prior to the term deadline; complete an application for licensure during your student teaching semester—you will receive instructions during a required meeting that precedes student teaching.
- (5) Complete at least 30 of coursework at BGSU.
- (6) Please check your BG account email and AYA Learning Community on MyBGSU regularly for AYA Education Program Announcements and Content Specialization Announcements. You are held accountable and responsible for adhering to rules, deadlines, etc., posted to MyBGSU Learning Community.
- (7) Note: For transfer students and degree-holding guests seeking licensure, all applicable course grades and GPA reflected on the degree audit will be calculated for methods and student teaching eligibility and to meet program requirements.