Biology, B.S.Ed.

BIOLOGY, B.S.ED.

Major in Biology, BSE			
Code	Title	Hours	
BIOLOGY FOUN	DATIONS		
Foundations of	Biology with C- or higher	4	
BIOL 101	Foundations of Biology		
REQUIRED BIOL	LOGY COURSES		
Biology majors must earn grades of C- (C minus) or higher in BIOL 101, 211, 221, 343, 362 and 364.			
BIOL 211	Concepts of Zoology	4	
BIOL 221	Concepts of Botany	4	
BIOL 343	Principles of Ecology & Evolution	4	
BIOL 362	Cell and Developmental Biology	4	

Foundations of Genetics & Molecular Biology

Methods/Teaching Biological Issues in the

4

1

ELECTIVES

BIOL 364

BIOL 375

BIOL 473

undefined - Choose 4 hours from:

Biometry

Secondary School

Any BIOL course(s)

Note: This requirement may not be satisfied with BIOL 100, BIOL 204, BIOL 205, BIOL 207, BIOL 208, BIOL 247, BIOL 281, or BIOL 340.

Total Hours 32

Professional Education

Code	Title	Hours
EDUCATIONAL FO	DUNDATIONS	
EDFN 211	Foundations Modern Education	3
EDFN 241	Psychological Foundations of Teaching	3
REQUIRED EDUCATION COURSES		
EDSE 321	Issues in Secondary Education	3
EDFN 330	Instructional Technology, Design & Assessment	3
EDSE 435	Teaching of Science in Secondary Schools	3
ACCOMMODATIONS AND ADAPTATIONS		
EDSE 340	Content Area Literacy for Diverse Classrooms	3
SPED 346	Secondary Students w/Disabilities in Inclusive Settings	3
STUDENT TEACHING		
EDSE 471	Student Teaching Seminar	3
EDSC 461	Student Teaching in Science	9
Total Hours		33

Req Related for Biology, BSE

Code Title Hours

For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.

CHEMISTRY

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students considering going to graduate school for an advanced degree in Biology should take CHEM 231 + 232.

CHEM 111	Introductory Chemistry 1	4
CHEM 112	Introductory Chemistry 2	4
Organic Chemistr	ry - Choose 1 of the following options 1-2:	4-8
Option 1. Orga	nic Chemistry I and II	
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
Option 2. Shor	t Course in Organic Chemistry	
CHEM 235	Organic Chemistry	
Biochemistry Che	emistry I	4
CHEM 326	Biochemistry 1	
EARTH SCIENCE		
Earth Science 20	0-level and above - Choose 1 class from:	
Any 2-level ES	CI course(s)	
Any 3-level ES	CI course(s)	
Any 4-level ES	CI course(s)	
MATHEMATICS		
Students conside MATH 161.	ering graduate or professional school should take	
Precalculus, Calc following:	ulus I or Honors Calculus - Choose 1 of the	4-5
MATH 160	Precalculus	
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
PHYSICS		
undefined - Choo	se 1 of the following options 1-2:	8-10
Option 1. Phys	ics with Algebra	
PHYS 131	Physics 1 with Algebra	
PHYS 132	Physics 2 with Algebra	
Option 2. Physics with Calculus		
PHYS 231	Physics 1 with Calculus	
PHYS 232	Physics 2 with Calculus	
Total Hours		28-35

Advanced Professional Studies, BSE

Code Title Hours

*Clearances are valid for one year from the date that appears in the header of this degree audit in the field 'Clearance Date'. Clearances cannot expire in the middle of a semester.

APS REQUIREME	NTS	
English Composit	tion - Choose 1 of the following:	3
ENGL 110	English Composition	
ENGL 110H	Hnrs:English Composition	
English Literature	e - Choose 1 of the following:	3
ENGL 230	Introduction to Literature	
ENGL 231	World Literature 1	
ENGL 232	World Literature 2	
ENGL 233	Early British Literature	
ENGL 234	Later British Literature	
ENGL 235	American Literary Tradition I	
ENGL 236	American Literary Tradition II	
ENGL 241H	H:Explorations in World Lit	
ENGL 242	Reading Our World:	
ENGL 292	Science Fiction	

ENGL 333	African-American Literature 1
ENGL 333H	Hnrs:African American Lit 1
ENGL 334	African American Literature 2
ENGL 334H	Hnrs:African American Lit 2
ENGL 336	New Dimensions to World Lit
ENGL 338	Folklore and Literature
ENGL 401	Old Eng Lang and Literature
ENGL 402	Middle Eng Lang and Literature

Mathematics

Two Mathematics courses are required for BSE students. You have taken 0 course(s). It is preferable to take two courses designated as G2. Click here to search for MATH courses on the current web schedule. BIOL 375 will fulfill one Mathematics course for BSE BIOL students.

EDFN 211	Foundations Modern Education	6
& EDFN 241	and Psychological Foundations of Teaching	

48 earned (transcript) credit hours are required

APS registration status

You ARE NOT eligible to register for courses requiring APS status.

ACT 126 - Educator Ethics Training

You must submit your Educator Ethics Training.

Pre-Service Testing Required

Pre-Service Testing Status is indicated by one of the following: 1.) PSTA - Pre-Service Testing Accomplished: Verified passing preservice test scores meet the requirement. 2.) PSTI - Pre-Service Testing Incomplete: Non-passing pre-service test scores were submitted prior to the August 1, 2015 policy change. Passing scores must still be achieved in order to meet the PA certification requirements. 3.) PSTU - Pre-Service Testing Unverified: Unofficial copies of pre-service test scores were submitted. Official scores must be sent from the testing company in order to meet PA certification requirements. 4.) PSTX - Pre-Service Testing Waived: Per PDE - ACT 136, the Pre-Service Testing Requirement has been waived.

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Your GPA is below 3.0 - please see an advisor

If you are given the 2.8 GPA Exception for graduation and you graduate with a GPA lower than 3.0, you must have higher certification test scores in order to meet PA state certification requirements.

No dispositions-related holds

If the requirement above is checked as complete, then there are currently no dispositions-related holds on your APS Status. Registration for APS courses is permitted when all APS requirements have been met. If it is incomplete, you have a hold and APS registration will not be allowed.

Full Admission to APS

When all requirements are met, you must submit application for admission to APS status. Click here for the application.

Total Hours 12