

BIOLOGY (B.S.) EDUCATION

Degree: Bachelor of Science

Major: Biology Education

Total Hours: 120

This is a program for students wanting to teach science grades 7-12. This degree plan is similar to the BS in Biology with Secondary Teaching Certification except that some courses in chemistry, physics, and biology are replaced with pedagogy coursework that prepares the student to be a professional educator.

Code	Title	Hours
General Education Core Curriculum		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
ENGL 1302	Composition II	
COMM 1315	Public Speaking I	
COMM 1321	Business and Professional Speech	
DSDE 1371	ASL I	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics</i>		
MATH 2312	Pre Calculus and Elementary Functions	3
<i>Life & Physical Sciences</i>		
BIOL 1406	General Biology I (Majors)	4
BIOL 1407	General Biology II (Majors)	4
<i>Language, Philosophy & Culture</i>		
Select one of the following:		3
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Close Reading II	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
FREN 2312	Intermediate French II	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
SPAN 2312	Intermediate Spanish II	
<i>Creative Arts</i>		
Select one of the following:		3
ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2304	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	

American History

Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	

Government/Political Science

POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3

Social and Behavioral Sciences

Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
POLS 1301	Intro to Political Science	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	

Component Area Option

Complete 6 hours from the following:		6
Any core course not already applied		
HNRS 2160	Scholars Development Seminar	
LIBR 1101	Introduction to Library Research	
PSYC 2317	Introduction to Statistical Methods	

Required Major Courses

Supporting Courses

CHEM 1311	General Chemistry I	4
& CHEM 1111	and General Chemistry I Laboratory	
CHEM 1312	General Chemistry II	4
& CHEM 1112	and General Chemistry II Laboratory	
PHYS 1401	College Physics I	4

Biology Core

BIOL 2421	Microbiology for Science Majors	4
BIOL 3450	General Botany	4
BIOL 3470	Genetics	4
BIOL 4344	Development of Biological Thought	3

Invertebrate Biology Course - one from:		4
BIOL 3460	Invertebrate Zoology	
BIOL 4410	Parasitology	

Vertebrate Biology Course - one from:		4
BIOL 3428	Comparative Anatomy	
BIOL 4408	Mammalogy	
BIOL 4409	Ornithology	
BIOL 4431	Ichthyology	
BIOL 4440	Vertebrate Natural History	
BIOL 4445	Herpetology	

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One from:		4
BIOL 4470	Cell Biology/Histology	
BIOL 4404	Molecular Biology	
<i>Electives - 3000-4000 level BIOL</i>		16
Teaching Certification		
PEDG 2310	Introduction to Teacher Education	3
PEDG 3300	Human Development and Learning	3
PEDG 3380	Secondary Curriculum and Methodology	3
PEDG 4380	Secondary Methodology and Classroom Management	3
PEDG 4620	Clinical Teaching	6
READ 3326	Content Area Reading	3
Total Hours		120

Course	Title	Hours
First Year		
Fall		
ENGL 1301	Composition I	3
BIOL 1406	General Biology I (Majors)	4
HIST 1301	U S History I 1763-1877	3
MATH 2312	Pre Calculus and Elementary Functions	3
Language, Philosophy & Culture		3
Hours		16
Spring		
Component area Option		3
BIOL 1407	General Biology II (Majors)	4
HIST 1302	U S History II Since 1877	3
Creative Arts		3
Social & Behavioral Sciences		3
Hours		16
Second Year		
Fall		
POLS 2301	Intro to American Government I	3
CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Laboratory	4
PHYS 1401	College Physics I	4
BIOL 2421	Microbiology for Science Majors	4
Hours		15
Spring		
POLS 2302	Intro/American Government II	3
Communication		3
Component Area Option		3
CHEM 1312 & CHEM 1112	General Chemistry II and General Chemistry II Laboratory	4
PEDG 2310	Introduction to Teacher Education	3
Hours		16
Third Year		
Fall		
BIOL 3450	General Botany	4
Electives BIOL		4
PEDG 3300	Human Development and Learning	3
PEDG 3380	Secondary Curriculum and Methodology	3
Hours		14
Spring		
BIOL Vertebrate course		4
BIOL 3470	Genetics	4
Electives BIOL		4
READ 3326	Content Area Reading	3
Hours		15

Summer		
Electives BIOL		8
Hours		8
Fourth Year		
Fall		
BIOL Invertebrate Course		4
Cell or Molecular BIOL		4
BIOL 4344	Development of Biological Thought	3
PEDG 4380	Secondary Methodology and Classroom Management	3
Hours		14
Spring		
PEDG 4620	Clinical Teaching	6
Hours		6
Total Hours		120