

Bachelor of Science in Biological Sciences (BSBS) Nature and Ecology Track

Student Name: _____

After Graduation Goals: _____

Field Specific Entrance Exam: _____

IMPACTS & Field of Study Courses: 60 HOURS

Institutional Priority (4 Hrs)	Hrs	Term	Grade
DVRS 1101	1		
Select <u>one</u> of the following: ANTH 1102, 1104;	3		
COMM 1100, 1110, 2000, 2010; HIST 1111, 1112,			
HIST 2220; POLS 2401; SOCI 2501; any SABR			
**Mathematics and Quantitative Skills (4 Hrs)	Hrs	Term	Grade
MATH 1001, 1101, 1111, 1113 , 1401, 2253	4		
Political Science & U.S. History - Citizenship (6 Hrs)	Hrs	Term	Grade
HIST 2111 or 2112	3		
POLS 1101	3		
Arts, Humanities & Ethics - Humanities (6 Hrs)	Hrs	Term	Grade
Select <u>one</u> of the following: ENGL 2111, 2112, 2121,	3		
ENGL 2122, 2131, 2132; HUMN 2111, 2112			
Select <u>one</u> of the following: ARTS 2205; ENGL 2111,			
ENGL 2112, 2121, 2122, 2131, 2132;	3		
HUMN 2111, 2112; MUSI 1100; THEA 1100;			
PHIL 2010; Any 3 Hrs Foreign Language			
**Communicating in Writing (6 Hrs)	Hrs	Term	Grade
ENGL 1101*	3		
ENGL 1102*	3		
Technology, Mathematics & Sciences - STEM (12 Hrs)	Hrs	Term	Grade
Select <u>one</u> of the following: ASTR 1010/1010L, 1020/1020L;	4		
BIOL 1010K, 1020K, 2000/2000L, 2107K, 2108K; CHEM 1151K,			
CHEM 1152K, 1211K, 12112K; PHSC 1011/1011L; PHYS 1111K,			
PHYS 1112K, 2211K, 2212K; SCIE 1111/1111L, 1121/1121L			
Select <u>two</u> of the following: ASTR 1010/1010L, 1020/1020L;	4		
BIOL 1010K, 1020K, 2000/2000L, 2107K, 2108K; CHEM 1151K,			
CHEM 1152K, 1211K, 12112K ; PHSC 1011/1011L; PHYS 1111K,			
PHYS 1112K, 2211K, 2212K; SCIE 1111/1111L, 1121/1121L	4		
CSCI 1301, 1302; MATH 1113, 1401, 2253, 2254, 2255			
Social Sciences (6 Hrs)	Hrs	Term	Grade
Select <u>two</u> of the following: ECON 1101, 2105, 2106;	3		
HIST 1111, 1112, 1121, 1122, 2100, 2111, 2112, 2200,			
HIST 2220; POLS 2100, 2200, 2401; PSYC 1101, 2101,	3		
PSYC 2103, 2201; SOCI 1101, 1160, 2293, 2501			
Field of Study Courses (18 Hrs)	Hrs	Term	Grade
BIOL 2107K	4		
BIOL 2108K	4		
CHEM 2401K - CHEM 1211K & 1212K are prerequisites	4		
CHEM 2402K	4		
1 hour from Mathematics and Quantitative Skills	1		
1 hour from Technology, Mathematics & Sciences	1		

MAJOR/ELECTIVE REQUIREMENTS: 60 HOURS

Nature and Ecology Track (53 Hrs)	Hrs	Term	Grade
BIOL 2215K Microbiology	4		
BIOL 3100 Biochemistry	3		
BIOL 3130 Principles of Genetics	3		
BIOL 3133 Evolution and Ecology	3		
BIOL 3440K Field Biology	4		
BIOL 3500K Ecology	4		
BIOL 3545K Vertebrate Zoology	4		
BIOL 3630 Freshwater Ecosystems	4		
BIOL 3910 Topics in Biology _____	3		
BIOL 3910 Topics in Biology _____	3		
BIOL 3950K Ornithology or BIOL 4600K Protistology	4		
BIOL 4090 Conservation Biology	3		
BIOL 4500 Introduction to Biological Research (Capstone)	3		
BIOL 4501 Senior Seminar (Capstone)	3		
MATH 1401 Elementary Statistics	3		
Select one of the following options:			
Option 1: PHIL 3150 Professional Ethics**	3		
**No longer offered after spring 27			
Option 2: BIOL 1501 Biology Seminar 1: Foundations	1		
BIOL 2501 Biology Seminar 2: Explorations	1		
BIOL 3501 Biology Seminar 3: Applications	1		
Free Electives (6 Hrs)	Hrs	Term	Grade
Select from the following:			
BIOL 2210K (4), 2211K (4), 3400 (4), 3950K (4),			
BIOL 4400 (3); 4600K (4); MATH 2253 (4), 2254 (4),			
MATH 2255 (4); PHYS 1111K (4), 2211K (4), 1112K (4),			
PHYS 2212 (4); ECON 2105 (3), 2106 (3); SOCI 2293 (3);			
PSYC 2101 (3), 2103 (3), 2201 (3)			
Courses used in other areas cannot be used here.			
Institutional Requirements Beyond BSBS Requirements	Hrs	Term	Grade
HLTH 1103 (Required)	2		
Physical Ed (2 Hrs)	2		
ADDITIONAL REQUIREMENTS			
*Nature and Ecology Track & Free Elective courses must be completed with			
"C" or better.			
*A grade of "C" or better is required for ENGL 1101, ENGL 1102, MATH,			
and all Field of Study Courses.			
* A minimum of 124 semester hours must be completed for graduation.			

BSBS Advising Checks

1. BIOL 1501, BIOL 2107K, BIOL 2108K & MATH 1113 should be completed in the first 30 hours.
2. Check on prerequisite requirements for all courses. Some are listed below.

BIOL 2107K completed with a C or better before BIOL 2108K, 2210K & 2215K.
 BIOL 1501 and 2107K completed with a C or better before BIOL 2501.
 BIOL 2501 and 2108K completed with a C or better before BIOL 3501.
 CHEM 1211K completed with a C or better before CHEM 1212K.
 CHEM 1212K completed with a C or better before CHEM 2401K.
 CHEM 2401K completed with a C or better before CHEM 2402K.
 BIOL 2107K, 2108K, CHEM 2401, 2402K completed with a C or better before BIOL 3100.
 BIOL 2107K & 2108K completed with a C or better before BIOL 3130, 3133, 3910 & 3950K.
 BIOL 3130 completed with a C or better before BIOL 3400 and BIOL 4600K.
 BIOL 3133 completed with C or better before BIOL 3440K, 3500K, 3545K, & 3630K.
 BIOL 3440K and MATH 1401 completed with C or better before BIOL 4500.
 BIOL 4500 completed with a C or better before BIOL 4501.

3. Check which courses are typically taught only in the fall semester or spring semester.

Courses Typically Taught Fall Only

BIOL 3130 Principles of Genetics
 BIOL 3133 Evolution & Ecology
 BIOL 3400 Cell Biology
 BIOL 3630K Freshwater Ecosystems
 BIOL 4090 Conservation Biology

BIOL 4500 Introduction to Biological Research
 CHEM 2401K Organic Chemistry I
 PHYS 1111K Introductory Physics I
 PHYS 2211K Principles of Physics I

Courses Typically Taught Spring Only

BIOL 3100 Biochemistry*
 BIOL 3440K Field Biology
 BIOL 3500K Ecology
 BIOL 3545K Vertebrate Zoology
 BIOL 3950K Ornithology
 BIOL 4501 Senior Seminar

BIOL 4600K Protistology
 CHEM 2402K Organic Chemistry II
 PHIL 3150 Professional Ethics**
 PHYS 1112K Introductory Physics II
 PHYS 2212K Principles of Physics II

*Sometimes offered in summer semester ** Last time course will be offered is spring 2027

4. Check that Junior and Senior students are taking a specific sequence of courses to stay on track to graduate. Some courses can be taken earlier but anything later can affect graduation.

Junior Fall Semester CHEM 2401K Organic Chemistry I BIOL 3130 Principles of Genetics BIOL 3133 Evolution and Ecology BIOL 3501 Biology Seminar 3: Applications ***	Junior Spring Semester CHEM 2402K Organic Chemistry II BIOL 3440K Field Biology BIOL 3500 Ecology BIOL 3545K Vertebrate Zoology (NE)
Senior Fall Semester BIOL 4090 Conservation Biology BIOL 4500 Introduction to Biological Research BIOL 3910 Topics in Biology (1 of 2 required) BIOL 3400 Cell Biology (PP) BIOL 3630K Freshwater Ecosystems (NE)	Senior Spring Semester BIOL 4501 Senior Seminar BIOL 3910 Topics in Biology (2 of 2 required) BIOL 3100 Biochemistry BIOL 3950K or 4600K Protistology (NE)

*** BIOL 3501 can be taken Senior Fall semester but is better to take Junior Fall Semester.