

# Bachelor of Science in Biological Sciences (BSBS) Pre-Professional 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                        |     |      |       |
| <b>**Mathematics and Quantitative Skills (4 Hrs)</b>             | Hrs | Term | Grade |
| MATH 1001, 1101, 1111, <b>1113</b> , 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,        | 3   |      |       |
| ENGL 2112, 2121, 2122, 2131, 2132;                               |     |      |       |
| HUMN 2111, 2112; MUSI 1100; THEA 1100;                           |     |      |       |
| PHIL 2010; Any 3 Hrs Foreign Language                            |     |      |       |
| <b>**Communicating in Writing (6 Hrs)</b>                        | 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,         |     |      |       |
| <b>CHEM 1152K, 1211K, 12112K</b> ; PHSC 1011/1011L; PHYS 1111K,  | 4   |      |       |
| PHYS 1112K, 2211K, 2212K; SCIE 1111/1111L, 1121/1121L            |     |      |       |
| 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

| Preprofessional Track (53 Hrs)                                         | Hrs | Term | Grade |
|------------------------------------------------------------------------|-----|------|-------|
| BIOL 2210K Anatomy and Physiology I                                    | 4   |      |       |
| BIOL 2211K Anatomy and Physiology II                                   | 4   |      |       |
| BIOL 2215K Microbiology                                                | 4   |      |       |
| BIOL 3100 Biochemistry                                                 | 3   |      |       |
| BIOL 3130 Principles of Genetics                                       | 3   |      |       |
| BIOL 3133 Evolution and Ecology                                        | 3   |      |       |
| BIOL 3400 Cell Biology                                                 | 4   |      |       |
| BIOL 3440K Field Biology                                               | 4   |      |       |
| BIOL 3500K Ecology                                                     | 4   |      |       |
| BIOL 3910 Topics in Biology _____                                      | 3   |      |       |
| BIOL 3910 Topics in Biology _____                                      | 3   |      |       |
| 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 (7 Hrs)                                                 | Hrs | Term | Grade |
|                                                                        |     |      |       |
|                                                                        |     |      |       |
| Select from the following:                                             |     |      |       |
| BIOL 3545K (4), 3630K (4), 3950K (4), 4600K (4),                       |     |      |       |
| BIOL 4400 (3); MATH 2253 (4), 2254 (4), 2255 (4);                      |     |      |       |
| PHYS 1111K (4), 2211K (4), 1112K (4), 2212K (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                                                              | 2   |      |       |
| Physical Ed                                                            | 2   |      |       |
| ADDITIONAL REQUIREMENTS                                                |     |      |       |
| *Pre-Professional Track students must take PHYS 1111K or 2211K.        |     |      |       |
| *Pre-Professional 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.

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

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