

## 2011 – 2012 B.S. Biology – General Biology Concentration

NAME \_\_\_\_\_ ID# \_\_\_\_\_

### UNIVERSITY CORE

#### A. Core Foundations

CORE 101 \_\_\_\_\_ 3  
 CORE 102 \_\_\_\_\_ 3  
 CORE 103\* \_\_\_\_\_ 3  
 CORE 201 \_\_\_\_\_ 3  
 CORE 202 \_\_\_\_\_ 3

**NOTE:** Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use only one course with their major prefix to fulfill core requirements.

\* Honors course – will replace CORE 101 & 102 for those students in the RU honors program

#### B. Core Skills & Knowledge

Courses must be from different disciplines:

##### MATHEMATICAL SCIENCES (3SH)

MATH 137,138, or 151 \_\_\_\_\_ 3

##### NATURAL SCIENCES (4 SH)

CHEM 101 \_\_\_\_\_ 4

##### HUMANITIES (3 SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: ENGL 200, HIST 101, 102 PHIL 111, 112, 114; POSC 110; RELN 111, 112, 200, 202, 206

##### VISUAL & PERFORMING ARTS (3 SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: ART 111, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180

##### SOCIAL/BEHAV. SCIENCES (3 SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120; PSYC 121 RELN 205 SOCY 110, 121

### COLLEGE CORE

#### A. National & International

Perspectives Courses must be from different disciplines:

##### U. S. PERSPECTIVES (3 SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: APST 200 ECON 101, 105, 106, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110

##### GLOBAL PERSPECTIVES (3SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: CVPA 266; ENGL 201; FORL 103; GEOG 101, 102, 140, 280 HIST 101, 102 INST 101; ITEC 112 PEAC 200 RELN 112, 205, SOCY 121; THEA 180 WMST 101

#### B. Supporting Skills &

Knowledge

##### NATURAL SCI. OR MATHEMATICAL SCIENCES (3-4 SH)

STAT 200 \_\_\_\_\_ 3

##### HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)

\_\_\_\_\_ \_\_\_\_\_ 3-4

One of the following: ENGL 200; HIST 101, 102 PHIL 111, 112, 114; POSC 110; RELN 111, 112, 203, 206 Or ART 111, 215, 216; CVPA 266; DNCE 111 MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 FORL 100, 109, 200, 209, 210, 309, 409; FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101, 201, 350; RUSS 100,200, 210, 300; SPAN 101: 102, 201, SPAN 202

##### SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)

\_\_\_\_\_ \_\_\_\_\_ 3

One of the following: ANSC 101, APST 200 ECON 105, 106 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200 NURS 111 NUTR 214 RCPT 200

### **General Biology CONCENTRATION**

|                            |                                      |        |
|----------------------------|--------------------------------------|--------|
| BIOL 160 _____ (2)         | Introductory Seminar in Biology      | F/S    |
| BIOL 460 _____ (2)         | Advanced Seminar in Biology          | F/S    |
| OR                         |                                      |        |
| 4 hours of BIOL 460 (2:2)  |                                      |        |
| BIOL 131 _____ (4)         | Ecology and Adaptation               | F/S    |
| BIOL 132 _____ (4)         | Biology of Cells and Microorganisms  | F/S    |
| BIOL 231 _____ (4)         | Genetics, Evolution, and Development | F/S    |
| BIOL 232 _____ (4)         | Organismal Biology                   | F/S    |
| CHEM 101 _____ (4)         | General Chemistry                    | F/SU   |
| CHEM 102 _____ (4)         | General Chemistry                    | S/SU   |
| STAT 200 _____ (3)         | Introduction to Statistics           | F/S/SU |
| MATH 137/138/151 _____ (3) | Math Core Curriculum see above       | F/S/SU |

### **Prerequisites**

Freshmen only  
 BIOL 131, 132, 231, and 232

"C" or better in 131(majors) or C or better in CHEM 101  
 "C" or better in BIOL 132  
 "C" or better in BIOL 231

CHEM 101

**Concentration elective hours (22-26Hours):** Students must select either 26 credits of Biology courses OR 22 credits of Biology Courses in combination with 8 hours of physics courses. The additional Biology electives may be chosen from any of the Biology courses numbered 200 or higher. Students are advised to consider all of the Department's electives, and to choose those most appropriate to their goals.

### **B.S. Requirement: (8 Hours)**

|                    |                   |   |          |
|--------------------|-------------------|---|----------|
| CHEM 301 _____ (4) | Organic Chemistry | F | CHEM 102 |
| CHEM 302 _____ (4) | Organic Chemistry | S | CHEM 301 |

## Sample Schedule B.S. Biology – General Biology Concentration 11/12

| Fall Semester  |              | Spring Semester   |              |
|--|--------------|---|--------------|
| <b>Freshman Year</b>   | <b>Cr.</b>   | <b>Freshman Year</b>  | <b>Cr.</b>   |
| University Core A: Core 101  | 3            | University Core A: Core 102                                       | 3            |
| BIOL 131   | 4            | BIOL 131 "C" or better in 131 (majors) or C or better in CHEM 101 | 4            |
| CHEM 101   | 4            | CHEM 102  | 4            |
| BIOL 160   | 2            | Math 137, 138 or 151  | 3            |
| STAT 200   | 3            | CORE  | 3            |
|  | <b>16</b>    |   | <b>17</b>    |
| Declared Biology majors must earn a grade of "C" or better in BIOL 131, 132, 231, 232, before admission to biology electives requiring these courses as prerequisites. Students who enter the major as a freshman must take BIOL 160, those who transfer or change majors after their freshman year will take (4) hours of BIOL 460. |              |   |              |
| <b>Sophomore Year</b>  | <b>Cr.</b>   | <b>Sophomore Year</b>   | <b>Cr.</b>   |
| University Core A: Core 201  | 3            | University Core A: Core 202                                       | 3            |
| BIOL 231 "C" or better in BIOL 132   | 4            | BIOL 232 "C" or better in BIOL 231                                | 4            |
| CORE   | 3            | CORE  | 3            |
| CHEM 301 (F ONLY). CHEM 102 (B.S. Requirement)   | 4            | CHEM 302 (S ONLY) CHEM 301 (B.S. Requirement)                     | 4            |
| General Elective to reach 120 credit hours   | 3            | General Elective to reach 120 credit hours                        | 3            |
|  | <b>17</b>    |   | <b>17</b>    |
| CORE 101, 102, 201, and 202 must be completed in succession. Students should complete CORE 202 prior to their junior year  |              |   |              |
| <b>Junior Year</b>   | <b>Cr.</b>   | <b>Junior Year</b>  | <b>Cr.</b>   |
| Required BIOL elective or PHYS course for major  | 4            | Required BIOL elective or PHYS course for major                   | 4            |
| CORE   | 3            | CORE  | 3            |
| Required BIOL elective for major   | 3            | Required BIOL elective for major                                  | 3-4          |
| Required BIOL elective for major   | 3-4          | General Elective to reach 120 credit hours                        | 3            |
|  | <b>13-14</b> |   | <b>14-15</b> |
|  |              |   |              |
| <b>Senior Year</b>   | <b>Cr.</b>   | <b>Senior Year</b>  | <b>Cr.</b>   |
| CORE   | 3            | CORE  | 3            |
| Required BIOL elective for major   | 4            | Required BIOL elective or General Elective                        | 3-4          |
| Required BIOL elective for major   | 4            | General Elective to reach 120 credit hours                        | 3            |
| BIOL 460 BIOL 131, 132, 231, and 232   | 2            | General Elective to reach 120 credit hours                        | 3            |
|  | <b>12</b>    |   | <b>13</b>    |

**Graduation Requirements:** Students must attain a minimum 2.0 in major and overall GPA in order to graduate. Major GPA is calculated using grades received in Biology 131, 132, all Biology courses 200 level or higher, all courses outside of Biology used as electives (including: Chem 471:472 and Physics if used as elective) and/or any course used as an elective by academic petition. Students are required to complete a minimum of 120 credit hours.