

**I. CORE CURRICULUM.....44**

Chemistry 1101-1110, 1102-1120 will count toward the science requirement. Math 1110 will count toward the math requirement. Depending on the concentration chosen, some courses may also apply toward social science requirement.

**II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above) .....65**

**2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II.**

**A. Biology Core Requirements: 12 semester hours (must be completed before taking any other biology courses)**

BIO 1110 \_\_\_\_ (4) Concepts of Biology  
BIO 2000 \_\_\_\_ (4) Introduction to Botany  
BIO 2001 \_\_\_\_ (4) Introduction to Zoology

**B. Additional Required Biology Courses: 34 semester hours**

BIO 3302 \_\_\_\_ (4) Ecology (ND, C)  
BIO 3306 \_\_\_\_ (3) Genetics (ND)  
BIO 3436 \_\_\_\_ (3) Introduction to Evolutionary Biology (W, S, ND)

**and one of the following:**

BIO 3301 \_\_\_\_ (4) Animal Physiology (W, ND)  
BIO 3308 \_\_\_\_ (4) Microbiology  
BIO 3800 \_\_\_\_ (4) Molecular Biology (W, ND, C)  
BIO 4100 \_\_\_\_ (4) Cell Biology  
BIO 4555 \_\_\_\_ (4) Plant Physiology (W, ND, C)

**Any four from the following (must include one plant biology course):**

BIO 3304 \_\_\_\_ (3) Systematic Botany  
BIO 3314 \_\_\_\_ (4) Comparative Vertebrate Zoology  
BIO 4552 \_\_\_\_ (3) Entomology  
BIO 4557 \_\_\_\_ (3) Ichthyology  
BIO 4560 \_\_\_\_ (3) Herpetology  
BIO 4601 \_\_\_\_ (3) Animal Behavior-Ethology (W, S, ND)  
BIO 3310 \_\_\_\_ (3) Marine Biology (W)  
BIO 4551 \_\_\_\_ (3) Ornithology  
BIO 4556 \_\_\_\_ (4) Mycology  
BIO 4559 \_\_\_\_ (3) Mammalogy  
BIO 4569 \_\_\_\_ (4) Invertebrate Zoology

**5-8 elective hours to complete 34 semester hours: \_\_\_\_\_**

**C. Required Cognate Courses: 19 semester hours** NOTE: 12 s.h. of cognate courses are counted in core curriculum requirements.

**Chemistry**

CHE 1101/1110 \_\_\_\_ (4) Intro. Chem. I (ND) & Lab  
CHE 1102/1120 \_\_\_\_ (4) Intro. Chem. II (ND) & Lab  
CHE 2101/2203 \_\_\_\_ (4) Fundamentals of Organic Chem & Lab\*  
**OR**  
CHE 2210/2211 \_\_\_\_ (4) Quantitative Analysis & Lab (W)

**Mathematics**

MAT 1110 \_\_\_\_ (4) Calculus w/Analytic Geom I (ND)  
STT 2810 \_\_\_\_ (3) Introduction to Statistics (ND, C)

\*The sequence of CHE 2201/2203 and CHE 2202/2204 can substitute for CHE 2101/2203

**D. Sustainable Development Concentration: 12 semester hours, chosen from three of the five following areas**

Students are encouraged to complete a minor in their chosen concentration by selection of 1 or 2 additional courses (consult advisor).

- |   |   |
|---|---|
| 1. PLN 2410 ____ (3) Town, City, & Regional Planning (CD) | 4. ANT 4570 ____ (3) Sustainable Develop. in the Modern World Sys (W, MC, CD) |
| PLN 3431 ____ (5) Planning Techniques (W, S, ND, C)       |   |
| PLN 3730 ____ (3) Land Use Regulations                    | 5. TEC 2029 ____ (3) Society & Tech (W, MC, CD)                               |
| PLN 4700 ____ (3) Project Management (W, S)               | TEC 4608 ____ (3) Photovoltaic Sys Design & Construc.                         |
| 2. GHY 1020 ____ (3) World Regional Geography (MC)        | TEC 4618 ____ (3) Sust Build Design & Construction                            |
| 3. GLY 1103 ____ (4) Intro to Envir & Appl Geology (ND)   | TEC 4628 ____ (3) Solar Thermal Energy Tech                                   |

**III. MINOR (optional)**

**IV. ELECTIVES (taken to a minimum of 128 hours for the degree)..... 19**

2 semester hours of free electives must be outside the major discipline.

**128**

**Major Designators**

2 Writing (W) \_\_\_\_ \_\_\_\_  
1 Speaking (S) \_\_\_\_  
Certified Proficiency in Communication (CPC) \_\_\_\_  
CPC is met by completion of W and S courses within the major with a grade of "C" or better.

**Other Designators**

4 Writing (W) \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_  
4 Multi Cultural (MC) \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_  
2 Numerical Data (ND) \_\_\_\_ \_\_\_\_  
2 Computer (C) \_\_\_\_ \_\_\_\_  
1 Cross Disciplinary (CD) \_\_\_\_