

## **Environmental Science**

### **Bachelor of Science Degree**

|     |   |  |                      |
|-----|---|--|----------------------|
| I.  | Course Requirements for Major                             |  |                      |
| A.  | Program Courses   |  | 21 semester hours    |
| 1.  | #ENV 110  | Introduction to Environmental Science  | 4                    |
| 2.  | ENV 122   | Geology  | 4                    |
| 3.  | ENV 141   | Climatology  | 3                    |
| 4.  | ENV 152   | Oceanography   | 3                    |
| 5.  | ENV 351   | Limnology  | 3                    |
| 6.  | ENV 395   | Junior Seminar in Environmental Science I  | 1                    |
| 7.  | ENV 396   | Junior Seminar in Environmental Science II   | 1                    |
| 8.  | ENV 495   | Senior Seminar in Environmental Science I  | 1                    |
| 9.  | ENV 496   | Senior Seminar in Environmental Science II   | 1                    |
| B.  | Cognate Requirements                                      |  | 45-47 semester hours |
| 1.  | BIO 141   | Basic Concepts of the Cell   | 4                    |
| 2.  | BIO 241   | Animal Biology   | 4                    |
| 3.  | BIO 441   | Terrestrial Ecology and Field Biology  | 4                    |
| 4.  | CHE 141   | General Chemistry 1  | 4                    |
| 5.  | CHE 142   | General Chemistry II   | 4                    |
| 6.  | CHE 350   | Analytical Chemistry   | 4                    |
| 7.  | CHE 441   | Instrumental Analysis  | 4                    |
| 8.  | Choose one sequence: (MAT174 & MAT244 or MAT181 & MAT182) |  |                      |
|     | #MAT 174  | Data Analysis and Statistics   |                      |
|     | MAT 244   | Statistical Analysis and Design  |                      |
|     | or  |  | 6-8                  |
|     | #MAT 181  | Calculus with Analytic Geometry I  |                      |
|     | MAT 182   | Calculus with Analytic Geometry II   |                      |
| 9.  | PHY 141/161   | Physics I  | 4                    |
| 10. | PHY 142/162   | Physics II   | 4                    |
| 11. | TSC 101   | Fundamentals of Speech Communication   | 3                    |
| C.  | Choose One of the Following Options                       |  |                      |
| 1.  | Biology Option  |  | 16 semester hours    |
|     | BIO 242   | Plant Biology  | 4                    |
|     | BIO 341   | Entomology   | 4                    |
|     | BIO 342   | Genetics   | 4                    |
|     | BIO 360   | Microbiology   | 4                    |
| 2.  | Chemistry Option  |  | 12 semester hours    |
|     | CHE 241   | Organic Chemistry I  | 4                    |
|     | CHE 242   | Organic Chemistry II   | 4                    |
|     | CHE 341   | Physical Chemistry I   | 4                    |
| 3.  | Environmental Management                                  |  | 11 semester hours    |
|     | ENV 342   | Industrial Ecology & Sustainability  | 3                    |
|     | ENV 380   | Environmental Certifications<br>Safety Training*   | 2                    |
|     |   | Hazardous Materials Transportation<br>RCRA Hazardous Waste Generator<br>Stormwater Operator<br>ISO 14001 |                      |
|     | ENV 441   | Environmental Regulations  | 3                    |
|     | ENV 452   | Hydrogeology   | 3                    |

|      |  |                             |
|------|--|-----------------------------|
| D.   | Total for Major  | <b>77-84 semester hours</b> |
| II.  | Liberal Arts<br># May be double counted toward Major and Liberal Arts Requirements.  | <b>28 semester hours</b>    |
| III. | General Electives  | <b>8-15 semester hours</b>  |
| IV.  | Total for Degree   | <b>120 semester hours</b>   |
| V.   | Other Requirements   |                             |
| 1.   | * Exempt for those accepted into Law/Graduate School.  |                             |
| 2.   | Environmental Science majors pursuing the Chemistry Option must successfully complete MAT 181 and MAT 182, and they are strongly encouraged to take PHY 261 and PHY 262. |                             |
| 3.   | Students majoring in Environmental Science must maintain a 2.1 GPA in all required courses (excluding cognate requirements) in the major.                                |                             |

### ***Minor in Environmental Science***

|    |   |                             |
|----|---|-----------------------------|
| I. | Course Requirements for Minor   |                             |
| A. | Program Requirements  | 21-22 semester hours        |
| 1. | #ENV 110 Environmental Science  | 4                           |
| 2. | CHE 141 Chemistry I   | 4                           |
| 3. | NSC 110 Earth Science   | 4                           |
| 4. | ENV 342 Industrial Ecology & Sustainability   | 3                           |
| 5. | ENV 152 Oceanography  | 3                           |
|    | or  | 3                           |
|    | ENV 141 Climatology   | 3                           |
| 6. | Approved Elective*  | 3-4                         |
|    | *ENV122 Geology, ENV141 Climatology, ENV351 Limnology, ENV362 Toxicology, ENV441 Environmental Regulations, BIO141 Basic Concepts of the Cell, BIO242 Plant Biology, BIO242 Plant Biology, BIO441 Ecology, CHE142 General Chemistry II, CHE241 Organic Chemistry, PHY241 Physics I, BAM411 Business & Society, PHI220 Introduction to Ethics, PHI320 Social Ethics, PHI329 Technology & the Human Condition, GEO301 Cultural Geography, CDV375 Administration of Child Care Centers, HIS211 U.S. History Since 1865, SOC379 Issues in Social Justice, SOC469 Social Justice in Local-Global Contexts, PSC345 Public Administration, PSC380 Public Policy, PSC430 Civil Rights & Civil Liberties, RST305 Theological Ethics, and PSY400 Special Topics Environmental Psychology. |                             |
| B. | Total for Minor<br># May be double counted toward Minor and Liberal Arts Requirements.  | <b>21-22 semester hours</b> |
| C. | Other Requirements  |                             |
| 1. | Students minoring in Environmental Science must maintain a 2.1 GPA in all required courses.   |                             |