

# ENVIRONMENTAL SCIENCE MAJOR

## Requirements for a major in Environmental Science: 30 credits

| Code  | Title  | Credits              |
|---|--|----------------------|
| <b>Required Foundation Courses</b>  |  | <b>(6-7 credits)</b> |
| EV-150  | Environmental Science                                | 3                    |
| GS-140<br>or GS-101   | Physical Geology<br>Physical Geography               | 3-4                  |
| <b>Intermediate Courses</b>   |  | <b>(9 credits)</b>   |
| GE-258  | Global Environmental Change                          | 3                    |
| Select two of the following:  |  | 6                    |
| GS-225  | Oceanography   |                      |
| GS-250  | Hydrology  |                      |
| GS-260  | Introduction to Soil Science                         |                      |
| <b>Advanced Courses</b>   |  | <b>(12 credits)</b>  |
| Environmental science electives approved by the student's advisor. <sup>1</sup> |  | 12                   |
| <b>Capstone</b>   |  | <b>(3 credits)</b>   |
| EV-400  | Environmental Science Seminar<br>(Ancillary Courses) | 3                    |
| <b>Ancillary Courses</b>  |  | <b>(31 credits)</b>  |
| BI-140  | Introduction to Organismal Biology                   | 4                    |
| BI-202  | Principles of Ecology                                | 4                    |
| CH-120  | General Chemistry I                                  | 4                    |
| CH-121  | General Chemistry II                                 | 4                    |
| GS-165  | Geographic Information Systems I                     | 4                    |
| MA-150<br>or MA-302   | Statistics I<br>Probability and Statistics           | 3                    |
| MA-190<br>or MA-200   | Pre-calculus<br>Calculus I                           | 4                    |
| PY-221<br>or PY-241   | General Physics I<br>Physics I (Mechanics)           | 4                    |
| <b>Total Credits</b>  |  | <b>61-62</b>         |

<sup>1</sup> Must include at least two 300- or 400-level courses and at least one lab course. No more than 5 credits may be from internship, independent study, and/or independent research courses. Students may count one environmental course with a prefix other than BI, CH, EV, or GS towards their environmental science electives. A list of courses counting as electives will be made available prior to pre-registration each semester.

Students in the Environmental Science major are not required to take LASC NSP or QR courses outside of the major. Students are required to meet with their department advisor to review their upcoming semester academic choices.

Department of Earth, Environment and Physics - Environmental Science Major

## Sample Timeline for Completion of Degree

|                       |  |                |
|-----------------------|--|----------------|
| <b>Year One</b>       |  |                |
| <b>Semester One</b>   |  | <b>Credits</b> |
| EV-150                | Environmental Science  | 3              |
| GS-140<br>or GS-101   | Physical Geology<br>or Physical Geography                        | 3-4            |
| MA-150<br>or MA-302   | Statistics I<br>or Probability and Statistics                    | 3              |
| EN-101                | College Writing I  | 3              |
| LASC                  | First-Year Seminar (FYS)   | 3              |
| <b>Credits</b>        |  | <b>15-16</b>   |
| <b>Semester Two</b>   |  |                |
| BI-140                | Introduction to Organismal Biology                               | 4              |
| MA-190<br>or MA-200   | Pre-calculus <sup>1</sup><br>or Calculus I                       | 4              |
| EN-102                | College Writing II   | 3              |
| LASC                  | LASC Elective (CON) <sup>2</sup>                                 | 3              |
| LASC                  | LASC Elective (DIV) <sup>2</sup>                                 | 3              |
| <b>Credits</b>        |  | <b>17</b>      |
| <b>Year Two</b>       |  |                |
| <b>Semester Three</b> |  |                |
| CH-120                | General Chemistry I  | 4              |
| GS-165                | Geographic Information Systems I                                 | 4              |
| GS-250                | Hydrology  | 3              |
| LASC                  | LASC Elective (USW) <sup>2</sup>                                 | 3              |
| LASC                  | LASC Elective (HBS) <sup>2</sup>                                 | 3              |
| <b>Credits</b>        |  | <b>17</b>      |
| <b>Semester Four</b>  |  |                |
| CH-121                | General Chemistry II   | 4              |
| GS-225<br>or GS-260   | Oceanography<br>or Introduction to Soil Science                  | 3              |
| BI-202                | Principles of Ecology  | 4              |
| LASC                  | LASC Elective (ICW) <sup>2</sup>                                 | 3              |
| LASC                  | LASC Elective (GP) <sup>2</sup>                                  | 3              |
| <b>Credits</b>        |  | <b>17</b>      |
| <b>Year Three</b>     |  |                |
| <b>Semester Five</b>  |  |                |
| CS-135                | Programming for Non-CS Majors                                    | 3              |
| PY-221                | General Physics I  | 4              |
| SELECT                | BI-2XX, CH2XX, EV-2XX, or GS-2XX<br>Major Elective <sup>3</sup>  | 3-4            |
| LASC                  | LASC Elective (CA) <sup>2</sup>                                  | 3              |
| SELECT                | General Elective   | 3              |
| <b>Credits</b>        |  | <b>16-17</b>   |
| <b>Semester Six</b>   |  |                |
| GE-258                | Global Environmental Change                                      | 3              |
| SELECT                | BI-2XX, CH2XX, EV-2XX, or GS-2XX<br>Major Elective <sup>3</sup>  | 3-4            |
| LASC                  | LASC Elective (TLC) <sup>2</sup>                                 | 3              |
| SELECT                | General Elective   | 3              |
| SELECT                | General Elective   | 3              |
| <b>Credits</b>        |  | <b>15-16</b>   |
| <b>Year Four</b>      |  |                |
| <b>Semester Seven</b> |  |                |
| SELECT                | BI-3XX, CH-3XX, EV-3XX, or GS-3XX<br>Major Elective <sup>3</sup> | 3-4            |

|                       |  |                |
|-----------------------|--|----------------|
| SELECT                | General Elective   | 3              |
| SELECT                | General Elective   | 3              |
| <b>Credits</b>        |  | <b>9-10</b>    |
| <b>Semester Eight</b> |  |                |
| EV-400                | Environmental Science Seminar                                    | 3              |
| SELECT                | BI-3XX, CH-3XX, EV-3XX, or GS-3XX<br>Major Elective <sup>3</sup> | 3-4            |
| SELECT                | General Elective   | 3              |
| SELECT                | General Elective   | 3              |
| <b>Credits</b>        |  | <b>12-13</b>   |
| <b>Total Credits</b>  |  | <b>118-123</b> |

<sup>1</sup> May also be any MA course above 200.

<sup>2</sup> The sequence of LASC courses marked with <sup>2</sup> is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

<sup>3</sup> Students may count one environmental course with a prefix other than BI, CH, EV, or GS towards their environmental science electives. A list of courses counting as electives will be made available prior to pre-registration each semester.

Students are required to meet with their academic advisor to review their courses for the upcoming semester. A minimum of 120 credits is required for graduation. First-year and transfer students with 45 or fewer credits at the time of admission shall complete two academic programs (a major/major or major/minor) to qualify for graduation. For more information, please view the MajorPlus section of this catalog.