

**Concord University**  
**BACHELOR OF SCIENCE – Environmental Geosciences**  
*Registrar's Office Official Document*

Name: \_\_\_\_\_

120 hours minimum for graduation with a 2.00 average overall  
 56 hours from a four-year institution

2019-2020 Catalog

**Course Title CR GR QP**

| Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101  |  |     |  |           |
|---|--|-----|--|-----------|
| ENGL 101  | Composition & Rhetoric I   | 3   |  |           |
| ENGL 102  | Composition & Rhetoric II  | 3   |  |           |
|   |  | 3   |  |           |
| Literature and Humanities (6 credit hours) Select one (1) course from Literature and one (1) course from History and Philosophy. *May be repeated for 3 credit hours. |  |     |  |           |
|   | <b>ENGL</b> 203, 204, *224 or *225   | 3   |  |           |
|   | <b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 308, 316, or 361  | 3   |  |           |
| Fine Arts– (3 credit hours) Select one (1) course from the following:   |  |     |  |           |
|   | <b>ART</b> 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, <b>MUS</b> 101, *451, *453A, or <b>THEA</b> 102                         | 3   |  |           |
| Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.  |  |     |  |           |
|   | <b>Category 1 - Business and Professional Studies</b><br>BGEN 105, ECON 203, ECON 204, FIN 200, RTM 100 or SOWK 161                  | 3   |  |           |
|   | <b>Category 2 - Geography</b><br>GEOG 101, 255 or 321  | 3   |  |           |
|   | <b>Category 3 - Political Science</b><br>POSC 101, 104, or 202   | 3   |  |           |
|   | <b>Category 4 - Psychology</b><br>PSY 101 or 200   |     |  |           |
|   | <b>Category 5 – Sociology</b><br>SOC 101, 201, or 301  |     |  |           |
| Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.  |  |     |  |           |
| GEOL 101  | <b>Category 1-Biological Science</b><br>BIOL 101, 102, 121, or 122   | 4   |  | See Major |
| CHEM 101  | <b>Category 2-Earth &amp; Space Science</b><br>GEOL 101, GEOL 150, GEOG 200, PHSC 104, or PHYS 105                                   | 3-4 |  | See Major |
|   | <b>Category 3-Physical Science</b><br>CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201  |     |  |           |
| Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.  |  |     |  |           |
| MATH 103  |  | 3   |  | See Major |
| Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.   |  |     |  |           |
|   | <b>H ED</b> 120, 304, <b>P ED</b> 101M, 117, 118, or <b>RTM</b> 220  | 2-3 |  |           |
| Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.                         |  |     |  |           |
|   | May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement. |     |  |           |

| Environmental Geosciences (2.00 GPA required) |  |   |  |  |
|---|--|---|--|--|
| GEOL 101                                      | Earth Processes, Resources and the Environment   | 4 |  |  |
| GEOL 202                                      | Evolution of Earth Systems   | 4 |  |  |
| GEOL 205                                      | Environmental Applied Geology  | 4 |  |  |
| GEOL 369                                      | Earth Materials and Minerals   | 4 |  |  |
| GEOL 375                                      | Petrology  | 4 |  |  |
| GEOL 380                                      | Sedimentary Geology  | 4 |  |  |
| GEOL 385                                      | Structural Geology   | 4 |  |  |
| GEOL 404                                      | Field Geology I  | 3 |  |  |
| GEOL 405                                      | Field Geology II   | 3 |  |  |
| CHEM 101                                      | General Chemistry I  | 3 |  |  |
| CHEM 111                                      | General Chemistry Lab I  | 1 |  |  |
| CHEM 102                                      | General Chemistry II   | 3 |  |  |
| CHEM 112                                      | General Chemistry Lab II   | 1 |  |  |
| MATH 103*                                     | College Algebra  | 3 |  |  |
| MATH 104*                                     | College Trigonometry   | 3 |  |  |
| MATH---                                       | 7 hours (two or three courses) of mathematics or computer science selected from MATH 105 or higher and/or CS 151 or higher | 3 |  |  |
| MATH---                                       |  | 4 |  |  |

**Students must select ONE of the concentrations on the following page**

NOTE:

\*MATH 103 and/or 104 may be waived for those students establishing "equivalent proficiency" as outlined by the Department of Mathematics (Math ACT 25 or 28).

\*\*MATH 250-251 recommended for Geology graduate school applicants.

\*\*\*Math 250 must be selected for the mathematics core requirement to satisfy this elective concentration (Physical Sciences).

\*\*\*\*Six hours of upper-level coursework in CHEM or PHYS (numbered between 300-449) may be substituted for any one GEOL course; twelve hours may be substituted for two GEOL courses.

**RESIDENCE CREDIT:**

36 hours at Concord

16 of last 32 hours at Concord

Note: In some degree programs, this is prior to entering professional training.

9 hours in Major, Teaching Fields

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| <b>Geography and Geographic Information Systems (16 hours)</b> |  |   |  |  |
|--|--|---|--|--|
| GEOG 311   | GIS and Cartography  | 3 |  |  |
| GEOG 411   | GIS Design and Application   | 3 |  |  |
|  | 10 hours from any of the following (including at least 6 hours in GEOG): |   |  |  |
|  | GEOG 300 Sustainable Development   |   |  |  |
|  | GEOG 312 Geographic Data Analysis  |   |  |  |
|  | GEOG 339 Geography of Soils  |   |  |  |
|  | GEOG 359 Climatology   |   |  |  |
|  | GEOG 412 Advanced Methods in Geospatial Analysis                         |   |  |  |
|  | or any electives in GEOL beyond those used to satisfy Core Requirements. |   |  |  |
|  |  |   |  |  |
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| <b>Ecology and Life Sciences (16 hours)</b> |   |   |  |  |
|---|---|---|--|--|
| BIOL 101                                    | General Biology I   | 4 |  |  |
| BIOL 102                                    | General Biology II  | 4 |  |  |
| BIOL 201                                    | Ecology and Field Methods   | 4 |  |  |
|   | 4 hours electives from any other courses in Biology (BIOL 315, Freshwater Ecology, recommended) | 4 |  |  |

| <b>Physical Sciences (8-10 hours)***</b> |  |   |  |  |
|--|--|---|--|--|
| PHYS 101<br>or<br>PHYS 201               | Introductory Physics I<br>or<br>University Physics w/Calculus I  | 4 |  |  |
| PHYS 102<br>or<br>PHYS 202               | Introductory Physics II<br>or<br>University Physics w/Calculus II  | 4 |  |  |
|  | Two (2) hours of electives from 200 or higher level course in CHEM, GEOL, PHYS beyond those used to satisfy Core Requirements. |   |  |  |