# Concord University <br> BACHELOR OF SCIENCE - Environmental Geosciences <br> Registrar's Office Official Document 

2024-2025 Catalog
Name: $\qquad$
120 hours minimum for graduation with a 2.00 average overall 56 hours from a four-year institution

| Course | Title | R | 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 |  |  |
| COMM 101 Or <br> BGEN 205 | Fundamentals of Speech Or <br> Fundamentals of Business Communication | 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.

|  | ENGL 203 or 204 | 3 |  |  |
| :--- | :--- | :---: | :---: | :---: |
|  | HIST 101, 102, 203, 204, PHIL 101, <br> $308, ~ 316, ~ o r ~ 361 ~$ | 3 |  |  |
| Fine Arts- (3 credit hours) Select one (1) course from the following: |  |  |  |  |
|  | ART 101, 103, 105, 106, 204, 205, 216, <br> $303, ~ 304, ~ 308, ~ M U S ~ 101, ~ * 451, ~ * 453 A, ~$ <br> or THEA 102 | 3 |  |  |

Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.

|  | Category 1-Business and <br> Professional Studies <br> BGEN 105, ECON 203, ECON 204, <br> FIN 200, HSP 100 or SOWK 161 <br> Category 2 - Geography <br> GEOG 101 or 221 <br> Category 3-Political Science <br> POSC 101, 104, or 202 <br> Category 4-Psychology <br> PSY 101 or 200 <br> Category 5-Sociology <br> SOC 101, 201, or 301 | 3 |  |
| :---: | :---: | :---: | :---: |
|  |  | 3 |  |
|  |  | 3 |  |
|  |  |  |  |
| Natural Sciences (7-8 credit hours) Select one (1) course from two different categories. |  |  |  |
| $\begin{aligned} & \hline \text { CHEM } \\ & 100 / 111 \end{aligned}$ | Category 1-Biological Science BIOL 101, 102, 121, or 122 <br> Category 2-Earth \& Space Science GEOL 101, GEOL 140 or 150 , GEOG 200, <br> PHSC 104, or PHYS 105 <br> Category 3-Physical Science CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201 | 4 | See <br> Major |
| GEOL 101 <br> or GEOG <br> 200 or <br> PHSC 104 |  | 3-4 | See <br> Major |
|  |  |  |  |

Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.

| MATH --- | 3 | See <br> Major |
| :---: | :---: | :---: | :--- |

Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.

|  | H ED 120, 304, P ED 101M, 117 or 118 | $2-3$ |  |  |
| :--- | :--- | :---: | :---: | :---: |
| Modern/Classical Language - (Optional 6 credit hours) Select two courses <br> within the same Modern/Classical Language for substitution purposes. |  |  |  |  |
|  | May not substitute Modern Language <br> for ENGL 101, ENGL 102, the 3-hour <br> Mathematics requirement or the 4-hour <br> lab science requirement. |  |  |  |


| Environmental Geosciences (Minimum 2.00 GPA required) |  |  |  |
| :---: | :---: | :---: | :---: |
| Earth and Environmental Sciences Core |  |  |  |
| Select one of the following: |  |  |  |
|  | - GEOL 101 Earth Processes, Resources and the Environment (4) (Recommended) <br> - GEOL 140 Geology and Environmental Issues in Appalachia (3) <br> - PHSC 104 Concepts in Physical Science: Earth/Space Sciences (4) | 3-4 |  |
| Select three of the following: |  |  |  |
|  | - GEOL 202 Evolution of Earth Systems <br> - GEOL 205 Environmental and Applied Geology <br> - GEOL 310 Soil, Water, and Land Use <br> - GEOL 312 Climatology <br> - GEOL 315 Biogeography \& Environmental Change <br> - GEOL 375 Chemistry and Petrology of the Solid Earth <br> - GEOL 380 Sedimentary Geology | 4 <br> 4 <br> 4 |  |
| Complete all of the following: |  |  |  |
| GEOL 365 | Earth Materials and Minerals | 4 |  |
| GEOL 385 | Earth Structure and Tectonics | 4 |  |
| GEOL 404 | Field Geology I | 3 |  |
| GEOL 405** | Field Geology II | 3 |  |
| GEOL 415 | Electron Imaging and X-ray Microanalysis | 2 |  |
| Geospatial Science |  |  |  |
| GEOG 200 | Digital Earth | 3 |  |
| $\begin{aligned} & \hline \text { GEOG } 311 \\ & \text { or } \\ & \text { GEOG } 411 \\ & \text { or } \\ & \text { GEOG } 412 \\ & \hline \end{aligned}$ | GIS and Cartography or GIS Design and Application or Public Health GIS | 3 |  |
| Supporting Courses |  |  |  |
| Supporting Core. Complete all of the following: |  |  |  |
| $\begin{aligned} & \hline \text { MATH } \\ & 103 / 103 C^{*} \\ & \text { and } \\ & \text { MATH 104* } \\ & \text { or } \\ & \text { MATH } 107 \\ & \hline \end{aligned}$ | ```College Algebra and College Trigonometry or Precalculus``` | 4-6 |  |
| CHEM 101* | Principles of Chemistry I | 3 |  |
| CHEM 111* | Principles of Chemistry I Lab | 1 |  |
| PHSC 219 | Laboratory Research Methods and Ethics | 1 |  |
| Select one of the following four (4) options: |  |  |  |
|  | -CHEM 102 Principles of Chemistry II (3) and CHEM 112 Principles of Chemistry II Lab (1) <br> - PHYS 101 Introductory Physics (4) <br> - PHYS 201 University Physics with Calculus, Part I (4) <br> - MATH 253 Calculus with Analytical Geometry I (4) | 4 |  |

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Elective Concentrations by Career Interest:<br>These are optional so you are not required to select or complete one, and you may instead select a mix of courses in collaboration with your advisor.<br>Public Health, Society, and Environment<br>All of the Following:<br>- HS 301, GEOG 101, GEOG 412; and three (3) from SOC 201, SOC 326, SOWK 302, LSPL 101 or BGEN 301, PSY 229, GEOG 221, GEOL 310, GEOL 312.<br>Recommended: MATH 105<br>Geology<br>All of the Following<br>- GEOL 375, GEOL 380, CHEM 102/112.<br>Two of the Following:<br>- PHYS 101 or 201, PHYS 102 or 202, MATH 253, MATH 254, GEOL 205, GEOL 470 (recommended)<br>Environmental Science<br>Five of the Following:<br>-BIOL 122, BIOL 201, BIOL 315, CHEM 102/112, PHYS 101 or 201, GEOL 205, GEOL 310, GEOL 312, GEOL 315, GEOL 471, MATH 105.<br>Geospatial Science<br>Six of the Following.<br>- GEOG 311, GEOG 411, GEOG 412, CS 151, CS 252, CS 282, CS 283, MATH 105, GEOG 450.

## NOTE:

Six credit hours of additional upper-level coursework in BIOL, CHEM, or PHYS (numbered between 300-449), may be substituted for any one GEOL or GEOG course; twelve hours may be substituted for two GEOL or GEOG courses.
*MATH 103 and/or 104 and/or 107 may be waived for those students establishing "equivalent proficiency" as outlined by the Department of Mathematics and Computer Science (Math ACT 25 or 28).
**Students in need of accessibility accommodations or unable to conduct field work or travel for GEOL 405 may petition for an appropriate course substitution or virtual field experience.

## 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

TOTAL MINIMUM REQUIRED CREDITS: 120
GENERAL EDUCATION CREDITS: 39-41
PROGRAM REQUIREMENTS: 50-52
ELECTIVE CREDITS: 27-31

