This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements.
# Program Map

## Year 1

### Term 1: Fall

- **A1:** ENGL 1101 English Composition I  
  Milestones:
  - Complete ENGL 1101 C or better
  - Complete MATH 1111 B or better
  - Target: 15 credit hours completed (this example = 16)

- **A2:** MATH 1113 Prealculus

- **F:** GEOL 1121 + LAB Introduction to Geosciences I

- **D1:** BIOL 1107 + LAB Principles of Biology I + Lab

- **B2:** Other Institutional Options

### Term 2: Spring

- **A1:** ENGL 1102 English Composition II

- **A2:** MATH 1113 Prealculus

- **F:** GEOL 1122 + LAB Introduction to Geosciences II

- **D1:** BIOL 1108 + LAB Principles of Biology II + Lab

Milestones:
- Complete ENGL 1102 & MATH 1113 with a C or better
- Complete GEOL 1121-1122 sequence
- Target: 30 credit hours completed (31)

### Additional Information

- Speak with Advisor and Faculty Mentor about GEOL 4082 before Year 3

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### Year 2

### Term 1: Fall

- **F:** CHEM 1211 + LAB Principles of Chemistry I + Lab

- **GEOL 3004** Field Geology and Geologic Mapping

- **MATH 1634** Calculus I

- **GEOL 3603** Environmental Geology

Milestones:
- Complete CHEM 1211/1211 C or better
- Complete Field Geology (GEOL 3004) C or better
- Plan for courses offered only alternate years
- Target: 45 credit hours completed (46)

### Term 2: Spring

- **F:** CHEM 1212 + LAB Principles of Chemistry II + Lab

- **GEOL 4093** Risk Assessment

- **D2:** MATH 1401* Elementary Statistics

- **B1:** ORAL COMMUNICATIONS

- **E:** HISTORY, GOVERNMENT, OR SOCIAL SCIENCE

Milestones:
- Complete CHEM 1212/1212L
- Plan for courses offered only alternate years
- Target: 60 credit hours completed (62)

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Key:
- **Core Area and Credit Hours**
- **Elective Course**
- **(*) Required Courses**

Additional Information:
- Speak with Advisor and Faculty Mentor about GEOL 4082 before Year 3
### Term 1: Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 3014</td>
<td>4</td>
</tr>
<tr>
<td>Mineralogy and Crystallography</td>
<td></td>
</tr>
<tr>
<td>GEOL 4082</td>
<td>1</td>
</tr>
<tr>
<td>Geological Problems</td>
<td></td>
</tr>
<tr>
<td>CHEM 2455 or 3310*</td>
<td>3/4</td>
</tr>
<tr>
<td>Principles of Organic Chemistry or Analytical Chemistry</td>
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</tbody>
</table>

**Milestones:**
- Complete Mineralogy (GEOL 3014)
- Research (GEOL 4082) okay any semester
- Plan for courses offered only alternate years
- Target: 75 credit hours completed (77)

### Term 2: Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 4084</td>
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<tr>
<td>Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEOL 4083 or 4014</td>
<td>4/3</td>
</tr>
<tr>
<td>Geochemistry</td>
<td></td>
</tr>
</tbody>
</table>

**C: Humanities/Fine Arts**
- 3

**E: History, Government, or Social Science**
- 3

**Milestones:**
- Plan for courses offered only alternate years
- Target: 90 credit hours completed (90/91)

### Year 3

14/15 Fall credit hours + 13/14 Spring credit hours = 27/29 credit hours

### Term 1: Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 2202</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Science</td>
<td></td>
</tr>
</tbody>
</table>

**E: History, Government, or Social Science**
- 3

**F: Course**
- 3

**Elective**
- 3

**Elective**
- 3

**Milestones:**
- Target: 105 credit hours completed (106/105)

### Term 2: Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 4501</td>
<td>1</td>
</tr>
<tr>
<td>Geology Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Elective**
- 4

**Elective**
- 4

**Elective**
- 4

**Elective**
- 3

**Milestones:**
- Complete GEOL 4064
- Complete Seminar (GEOL 4501)
- Target: 120 credit hours completed (122/121)

### Year 4

15 Fall credit hours + 16 Spring credit hours = 31 credit hours

**Geology Courses Offered Only Alternate Years:**
- Fall, odd-numbered years: GEOL 4003 Environmental Geology, GEOL 4005 Geomorphology, GEOL 4044 Engineering Geology
- Spring, even-numbered years: GEOL 4083 Environmental Geochemistry
- Spring, odd-numbered years: GEOL 4014 Geochemistry

**Electives Offered During Summer Sessions:**
- GEOL 2503 Introduction to Oceanography
- GEOG 2555 Geology of National Parks
**READY**

**FIRST YEAR**
- Take the Intro Geology sequence GEOL 1121+L and GEOL 1122+L your first and second semesters
- Enroll in CHEM 1211
- Get confident with Wolf Watch and your Program Map

**FIND YOUR PLACE**
- Attend a Geoscience Club meeting or event such as River Cleanup, or a professional talk
- Find other student organizations that match your interests

**BROADEN YOUR PERSPECTIVES**
- Explore a new-to-you culture or language through your core courses
- Make an effort to be inclusive of others as you meet new faces on campus

**CONNECT OFF-CAMPUS**
- Meet our Alumni at the Geosciences Career Night (Spring)
- Go to events in the Carrollton Community

**TAKE CARE OF YOURSELF**
- Build friendships with other students
- Learn about resources on campus such as the Counseling Center, Student Health Services, Center for Academic Success, and the Campus Center

**PAVE YOUR PATH**
- Be proactive. Go to your professors’ office hours, even before you need help in the class. These conversations can lead to connections.

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**SET**

**MIDDLE YEARS**
- Choose a track: Professional or Environmental
- Explore courses in the core and follow the Geology Program Map for the geology track you choose
- Love something outside of geology? Earn a minor or a certificate!

**FIND YOUR PLACE**
- Ask your professors about their research and seek out your own opportunities to do research
- Start researching career paths
- Become a TA for Physical Geology or Historical Geology

**BROADEN YOUR PERSPECTIVES**
- Travel! Explore Travel Abroad opportunities or enroll in Regional Applications of Field Geology (offered summers) to see more of the US

**CONNECT OFF-CAMPUS**
- Participate in an internship
- Volunteer with a STEM school visit

**TAKE CARE OF YOURSELF**
- Take a break from studying once in a while to enjoy events on campus

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**GO**

**LAST YEAR**
- Take upper-level electives to prepare you for your career/graduate programs
- Study for the licensure exam (Professional Track students)

**FIND YOUR PLACE**
- Be a leader in the Program by being a Club officer
- Serve as a TA again or seek other employment/volunteering opportunities on campus

**BROADEN YOUR PERSPECTIVES**
- Read books or listen to podcasts to expand your thinking about how geosciences affects people and society

**CONNECT OFF-CAMPUS**
- Become a member of a geology professional organization and get involved as soon as you can!

**TAKE CARE OF YOURSELF**
- Get organized with important dates! Graduation application, job application, grad school stuff, class projects, interviews... put all those dates in your phone so that you can stay on top of your busy schedule this final year.

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**PAVE YOUR PATH**
- Get organized with important dates! Graduation application, job application, grad school stuff, class projects, interviews... put all those dates in your phone so that you can stay on top of your busy schedule this final year.

**APPLY FOR SCHOLARSHIPS AND REU OPPORTUNITIES**
- Attend a professional conference to network and connect with the scientific community
- Research graduate school programs if you’re considering that pathway

**REQUEST LETTERS OF RECOMMENDATION FROM PROFESSORS**
- Apply to graduate programs in the fall or early winter or apply to jobs in the spring
CAREERS
WHERE CAN YOU GO WITH THIS DEGREE?

ARCHAEOLOGIST
ENVIRONMENTAL FIELD TECHNICIAN
ENVIRONMENTAL PROTECTION SPECIALIST
ENVIRONMENTAL SCIENTIST
FORESTER

GEOLOGIST
GIS ANALYST
HYDROGRAPHIC SURVEYOR
QUARRY MANAGER
SUSTAINABILITY ENGINEER