BACHELOR OF ARTS WITH A MAJOR IN GEOLOGICAL SCIENCES

REQUIREMENTS

The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Undergraduate Programs (http://bulletin.gwu.edu/arts-sciences/#degreeregulationtext).

Program-specific curriculum:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Prerequisite courses:</strong></td>
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<tr>
<td>GEOL 1002</td>
<td>Historical Geology</td>
<td></td>
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<tr>
<td>GEOL 1001</td>
<td>Physical Geology</td>
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<tr>
<td>or GEOL 1005</td>
<td>Environmental Geology</td>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Required courses in related areas:</strong></td>
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<tr>
<td>CHEM 1111</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 1112</td>
<td>General Chemistry II</td>
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<tr>
<th>Code</th>
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<th>Credits</th>
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<tr>
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<td><strong>Required courses for the major:</strong></td>
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<tr>
<td>GEOL 2111</td>
<td>Mineralogy</td>
<td></td>
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<tr>
<td>GEOL 2112</td>
<td>Igneous and Metamorphic Petrology</td>
<td></td>
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<tr>
<td>GEOL 2122</td>
<td>Structural Geology</td>
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</tr>
<tr>
<td>GEOL 3126</td>
<td>Sedimentology and Stratigraphy</td>
<td></td>
</tr>
<tr>
<td>GEOL 4195</td>
<td>Geological Field Methods</td>
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Three upper-level electives chosen from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOL 2106</td>
<td>Oceanography</td>
<td></td>
</tr>
<tr>
<td>GEOL 2151</td>
<td>Introduction to Paleontology</td>
<td></td>
</tr>
<tr>
<td>GEOL 2190</td>
<td>Special Topics in Geology (3 credits only)</td>
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<tr>
<td>GEOL 3118</td>
<td>Volcanology</td>
<td></td>
</tr>
<tr>
<td>GEOL 3123</td>
<td>Crustal Dynamics</td>
<td></td>
</tr>
<tr>
<td>GEOL 3131</td>
<td>Global Climate Change</td>
<td></td>
</tr>
<tr>
<td>GEOL 3138</td>
<td>Hydrogeology</td>
<td></td>
</tr>
</tbody>
</table>

GENERAL EDUCATION

In addition to the University General Education Requirement, undergraduate students in Columbian College must complete a further, College-specific general education curriculum—Perspective, Analysis, Communication, or G-PAC. Together with the University General Education Requirement, G-PAC engages students in active intellectual inquiry across the liberal arts. Students achieve a set of learning outcomes that enhance their analytical skills, develop their communication competencies, and invite them to participate as responsible citizens who are attentive to issues of culture, diversity, and privilege.

G-PAC approved courses, Dean’s Seminars, and Sophomore Colloquia that may be available for registration are listed on the CCAS Advising website (https://advising.columbian.gwu.edu/general-education-courses).

Coursework for the University General Education Requirement is distributed as follows:

- Writing—one approved course in university writing and two approved writing in the disciplines (WID) courses.
- Humanities—one approved course in the humanities that involves critical or creative thinking skills.
- Mathematics or Statistics—one approved course in either mathematics or statistics.
- Natural or Physical Science—one approved laboratory course that employs the process of scientific inquiry.
- Social Sciences—two approved courses in the social sciences.

Coursework for the Columbian College general education curriculum is distributed as follows:

- Arts—one approved course in the arts that involves the study or creation of artwork based on an understanding or interpretation of artistic traditions or knowledge of art in a contemporary context.
- Global or Cross-Cultural Perspective—one approved course that analyzes the ways in which institutions, practices, and problems transcend national and regional boundaries.
- Humanities—one approved course in the humanities that involves critical thinking skills (in addition to the one course in this category required by the University General Education Requirement).
- Local or Civic Engagement—one approved course that develops the values, ethics, disciplines, and commitment to pursue responsible public action.
• Natural or Physical Science—one approved laboratory course that employs the process of scientific inquiry (in addition to the one course in this category required by the University General Education Requirement.
• Oral Communication—one course in oral communication.

Certain courses are approved to fulfill the requirement in more than one of these categories.

Courses taken in fulfillment of G-PAC also may be counted toward majors or minors. Transfer courses taken prior to, but not after, admission to George Washington University may count toward the University General Education Requirement and G-PAC, if those transfer courses are equivalent to GW courses that have been approved by the University and the College.

SPECIAL HONORS

In addition to the general requirements stated under University Regulations, in order to be considered for graduation with Special Honors, candidates must maintain a cumulative grade-point average of 3.3 both overall and for courses in the major, and must submit an approved Honors thesis.