

BACHELOR OF ARTS WITH A MAJOR IN GEOLOGICAL SCIENCES

The Geological Sciences Program at takes advantage of GW's rich geological setting, located near the Appalachian Mountains and within one of the major concentrations of geologists and geologically-related professionals in the country. You will be equipped with knowledge on a broad range of geological topics, including mineralogy, petrology, geochemistry, paleontology, sedimentology, stratigraphy, and applied environmental applications—all with an emphasis on field-based studies. Our faculty members are engaged in research on the geology and paleontology—many of them practicing research scientists from the U.S. Geological Survey, environmental firms, the Smithsonian Institution, and other agencies in the Washington, D.C. Working alongside our full-time faculty, you will be provided with an education that goes beyond the classroom. You'll be prepared for a wide range of career opportunities in fields such as environmental science, geology, science education, and more.

For more information, visit the program website. (<https://geology.columbian.gwu.edu/>)

ADMISSIONS

For more information on the admission process, please visit the Office of Undergraduate Admissions website (<https://undergraduate.admissions.gwu.edu/>). Applications may be submitted via the Common Application (<https://go.gwu.edu/commonapp/>).

Supporting documents not submitted online should be mailed to:

Office of Undergraduate Admissions
The George Washington University
800 21st Street NW, Suite 100
Washington DC 20052
Contact for questions:
gwadm@gwu.edu or 202-994-6040

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/#degreeregulationstext>).

Program-specific curriculum:

Code	Title	Credits
Prerequisite courses		
Two courses selected from the following:		
GEOL 1002	Historical Geology	

GEOL 1001	Physical Geology
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GEOL 1005	Environmental Geology
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Code	Title	Credits
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Required courses in related areas

CHEM 1111	General Chemistry I
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CHEM 1112	General Chemistry II
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Required courses for the major

GEOL 2111	Mineralogy
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GEOL 2112	Igneous and Metamorphic Petrology
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GEOL 2122	Structural Geology
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GEOL 3128	Sedimentology and Stratigraphy
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GEOL 3129	Sedimentology and Stratigraphy Lab
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GEOL 4195	Geological Field Methods
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Three upper-level elective courses selected from the following:

GEOL 2106	Oceanography
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GEOL 2151	Introduction to Paleontology
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GEOL 2190	Special Topics in Geology (3 credits only)
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GEOL 2333	Evolution and Extinction of Dinosaurs
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GEOL 3118	Volcanology
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GEOL 3123	Crustal Dynamics
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GEOL 3131	Global Climate Change
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GEOL 3138	Hydrogeology
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GEOL 3140	Geochemistry
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GEOL 3191	Geology of Energy Resources
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GEOL 4199	Undergraduate Research or Reading (3 credits only)
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GENERAL EDUCATION

In addition to the University General Education Requirement (<http://bulletin.gwu.edu/university-regulations/general-education/#text>), undergraduate students in Columbian College must complete a further, College-specific general education curriculum—Perspective, Analysis, Communication, or G-PAC (<http://bulletin.gwu.edu/arts-sciences/gpac/>). 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.