

# Biology-Geology Combined Major

## Degree Type

Bachelor of Arts

## Total credit requirements for Biology-Geology Combined Major

66-70 total credits

- 23-26 credits in biology
- 26-29 credits in geology
- 14-18 credits in other departments

## Required biology courses

Item #	Title	Credits
Biology 111	Biological Principles	4.0
Biology 112	The Biological World	4.0
Biology 205	Genetics	3.0
	Four credits from the Organismal Biology category	4
	Four credits from the Ecology/Evolution category	4
	At least four additional credits in Biology and/or BBMB courses numbered 200 and above	4
	Three credits of Biology 490 or 498 (or three credits of Geology 480, 490, or 498)	3

## Required geology courses

Item #	Title	Credits
	Introductory Geology	4
Geology 227	Sedimentology and Stratigraphy	4.0
Geology 270	Minerals, Society, and the Environment	4.0
Geology 350	Geomorphology	4.0
Geology 358	Field Geology of the Northwest	1.0
	Geology 312 or 368	3-4
	Either Geology 301, 321, or 405	4
	Three credits of Geology 480, 490, or 498 (or three credits of Biology 490 or 498)	3
	During senior year: Geology 470	1

## Required supporting science courses

Item #	Title	Credits
	Chemistry 125/135 and 126/136, or Chemistry 140	4-8
Chemistry 245	Organic Chemistry I	3.0
	Mathematics 124 or 125	3-4
	Mathematics 126 or a statistics course	3-4

## Notes on courses:

- No courses for the major may be taken PDF
- Two semesters of Physics and field experience are strongly recommended.

## Senior requirements

- Geology 470
- Senior assessment:
  - Comprehensive written exams in both geology and biology;
  - One-hour oral exam by biology and geology faculty

## Honors

- Students do not apply for admission to candidacy for honors
- If thesis is in Geology students must submit a proposal for their thesis or project
  - Must be submitted within the first six weeks of the two-semester period in which student is eligible
- Accumulated at least 87 credits
- Completed two semesters of residency at Whitman.
- Cumulative GPA of at least 3.300 on all credits earned at Whitman College
- Major GPA of at least 3.500
- Complete a written thesis or research project prepared exclusively for the satisfaction of this program (either Geology or Biology)
- Earn a grade of at least A- on the honors thesis
- Pass the senior assessment with distinction
- Chairs of the departments will notify the Registrar of students attaining Honors no later than the beginning of week 12 of the semester.
- An acceptable digital copy of the Honors Thesis must be submitted to Penrose Library no later than Reading Day

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**Total Credits**

**66-70**