

# Astronomy-Geology Combined Major

## Degree Type

Bachelor of Arts

## Total credit requirements for Astronomy-Geology Combined Major

61-63 total credits

- 20 credits in astronomy
- 27-28 credits in geology
- 4 credits in chemistry
- 4 credits in physics
- 6-7 credits in mathematics and statistics
- Required astronomy courses:
  - Astronomy 177, 178, and 179
  - Astronomy 310, 320, 330, 350, 360, or 380
  - At least two additional credits in Astronomy courses numbered 310-392
  - Two credits of Astronomy 490
- Required geology courses:
  - Introductory geology (Geology 110 and 111, or 120 and 121, or 125 and 126)
  - Geology 227, 270, 350, and 358
  - Two of the following: Geology 310, 405, or 420
  - Two credits of Geology 490
  - During senior year: Geology 470

## Required Astronomy Courses

Item #	Title	Credits
Astronomy 177	Sky and Planets	4.0
Astronomy 178	Sun and Stars	4.0
Astronomy 179	Galaxies and Cosmology	4.0
	Astronomy 310, 320, 330, 350, 360, or 380	4
	At least two additional credits in Astronomy courses numbered 310-392	2
	Two credits of Astronomy 490	2

## 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
	Two of the following: Geology 310, 405, or 420	8
Geology 490	Senior Research	1.0-3
Geology 470	Senior Seminar	1.0

## Other required courses

Item #	Title	Credits
Chemistry 125	General Chemistry I	3.0
Chemistry 135	General Chemistry Lab I	1.0
	Mathematics 124 or 125	3-4
Mathematics and Statistics 126	Calculus II	3.0
	Physics 145 or 155	4

## Notes on course

No courses for the major may be taken P-D-F

◦ Strongly recommended courses: Computer Science 167; Mathematics 225, 244; Chemistry 126, 136; Physics 156, 245, 255

## Senior requirements

- Astronomy 490, Geology 470 and 490
- Senior assessment:
  - Comprehensive written exams in both geology and astronomy
  - One-hour oral exam by astronomy and geology faculty

## Honors

- Students do not apply for admission to candidacy for honors;
- Earn a cumulative GPA of at least 3.300 and a major GPA of at least 3.500
- Write a thesis graded A or A- by department faculty;
- Pass the senior assessment with distinction;
- Department Chairs will notify the Registrar of students attaining Honors no later than the third week of April
- An acceptable copy of the Honors Thesis must be submitted to Penrose Library no later than reading day

<b>Total Credits</b>	<b>61-63</b>
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