

B.A. GEOLOGY CHECKLIST of required courses for major**Courses in Natural Sciences: 5-6 courses, 18 credits minimum***

Course	Credits	When to take:
4-5 Courses* in Chemistry, Calculus and Physics are highly recommended. Additional choices from courses* in the College of Natural Science are acceptable.	15*	1 st or 2 nd year, either semester
*COURSES MUST BE SELECTED WITH CONSULTATION AND APPROVAL OF A GEOLOGY FACULTY ADVISOR		
NATSCI 387 – CNS Junior Year Writing <i>fulfills Gen.Ed. "Junior-Year Writing" requirement</i>	3	3 rd or 4 th year, either semester

Introductory Geology Courses: 3 courses, 11-12 credits

Course	Credits	When to take:
GEOLOGY 101 – The Earth <i>or take</i>	4	1 st year, either semester
GEOLOGY 131 - Experiencing Geology Lab <i>and either</i>	(1)	1 st year, either semester
GEOLOGY 103 - Intro to Oceanography <i>or</i>	(4)	1 st year, either semester
GEOLOGY 105 - Dynamic Earth	(4)	1 st year, either semester
GEOLOGY 201 – History of the Earth	4	1 st or 2 nd year, spring semester
GEOLOGY 231 – Geological Field Methods	3	2 nd or 3 rd year, spring semester

Upper Level Geology Courses: 5-7 courses, 21 credits minimum*

Course	Credits	When to take:
Select from 300- to 600-level Geology (odd course numbers) or physical geography (<i>some</i> even course numbers).	18*	3 rd or 4 th year, either semester
*COURSES MUST BE SELECTED WITH CONSULTATION AND APPROVAL OF A GEOLOGY FACULTY ADVISOR		
GEOLOGY 494LI – Living on Earth <i>Fulfills Gen. Ed. "Integrative Experience" requirement</i>	3	3 rd or 4 th year, fall semester

Junior or senior research projects, thesis, or independent study with individual faculty members are strongly encouraged. GEOLOGY 396 and GEOLOGY 496 credits contribute towards Geology B.A. upper level geology courses.

Examples of Upper Level Geology Courses: Not all courses are offered each semester. Consult with faculty for schedule and prerequisites.		
311 – Mineralogy	557 – Coastal Processes	591N – Climate Modeling
321 – Petrology	563 – Glacial Geology	591P – Paleoceanography
415 – Intro to Geochemistry	567 – Planetary Geology	591V – Volcanology
431 – Structural Geology	571 – General Geophysics	595D – Physical Oceanography
445 - Sedimentology	575 – Paleomagnetism	597I – Isotope Geochemistry
515 – X-ray Fluorescence Analysis	587 – Hydrogeology	615 – Organic and Biogeochemistry
517 – Sedimentary Geochemistry	591D – Spatial Data Analysis	627 – Clay Petrology
519 – Aqueous/Enviro. Geochemistry	591E – Ecohydrology	687 – Advanced Hydrogeology
531 – Tectonics	591G – Granites and Rhyolites	691C – Optical Mineralogy
555 – Dynamic Digital Maps	591J – Microprobe Analysis	
Physical Geography electives:		
340 – Quantitative Methods in Geog.	426 – Remote Sensing	510 – Natural Hazards
352 – Computer Mapping	458 – Climate Change	560 – Geomorphology
354 – Climatology	468 – GIS and Spatial Data Analysis	594Q – Advanced Remote Sensing

For further information, contact:

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