

# Checklist for the BS Degree in GEOLOGY (Geology Track)

*The purpose of the Geology Track is to prepare students for Graduate School or employment as an entry-level Geologist*

## Supporting Sciences – 6 courses, 22-24 credits total

Calculus I & II ( <i>Math 127-128, or 131-132, or 135-136</i> )	6-8 credits
<i>Note: Math 131-132 is the recommended sequence.</i>	
Chemistry I & II with lab ( <i>Chem 111-112</i> )	8 credits
Physics I & II with lab ( <i>Physic 131-132, 151-152</i> )	8 credits

## Geology Core Courses – 8 courses, 30 credits

<b>GeoSci 101</b> - The Earth (both semesters)	4 credits
- Or <b>GeoSci 103</b> , <b>GeoSci 105</b> or <b>GeoSci 109</b> plus <b>GeoSci 131</b> (equivalent to the <b>GeoSci 101</b> lab)	
<b>GeoSci 201</b> - History of the Earth ( <u>Spring only</u> )	4 credits
<b>GeoSci 231</b> - Geological Field Methods ( <u>Spring only</u> )	3 credits
<b>GeoSci 331</b> - Geological Mapping ( <u>Fall only</u> )	3 credits
<b>GeoSci 311</b> - Mineralogy ( <u>Fall only</u> )	4 credits
<b>GeoSci 321</b> - Petrology ( <u>Spring only</u> )	4 credits
<b>GeoSci 431</b> - Structural Geology ( <u>Fall only</u> )	4 credits
<b>GeoSci 445</b> - Sedimentology ( <u>Fall only</u> )	4 credits

## Electives\* – 12 credits minimum

Upper division Geology and Physical Geography courses 12 credits  
 Courses numbered **300 and higher**; *\*select courses in consultation with an advisor; for example:*

<i><b>Solid Earth Processes and Tectonics*</b></i>	<i><b>Surficial Processes and Climate Change*</b></i>	<i><b>Water and the Environment*</b></i>
GeoSci 510 – Geologic Hazards	GeoSci 352 – Computer Mapping	GeoSci 352 – Computer Mapping
GeoSci 513 – Crystal Chemistry	GeoSci 354 – Climatology	GeoSci 354 – Climatology
GeoSci 531 – Tectonics	GeoSci 458 – Climate Change	GeoSci 415 – Intro Geochemistry
GeoSci 555 – Dynamic Digital Maps	GeoSci 517 – Sedimentary Geochemistry	GeoSci 468 – GIS & Spatial Analysis
GeoSci 567 – Planetary Geology	GeoSci 557 – Coastal Processes	GeoSci 519 – Aq & Enviro Geochem
GeoSci 571 – General Geophysics	GeoSci 560 – Geomorphology	GeoSci 560 – Geomorphology
GeoSci 575 – Paleomagnetism	GeoSci 563 – Glacial Geology	GeoSci 563 – Glacial Geology
GeoSci 591G – Granites and Rhyolites	GeoSci 591P – Paleooceanography	GeoSci 571 – General Geophysics
GeoSci 591J – Microprobe Analysis	GeoSci 595D – Physical Oceanography	GeoSci 587 – Hydrogeology
GeoSci 591V – Volcanology	GeoSci 597 – Isotope Geochemistry	GeoSci 615 – Organic & Biogeochemistry

*\*These are suggested courses for specific areas of interest or concentration*

## Recommended

**GeoSci 396, 396R, 396T, 496, 496R, 496T** - junior or senior **research** projects, a **senior thesis**, a **honors thesis**, or **independent study** with individual faculty members are strongly encouraged. These are for variable credits and count as elective credits.

## University Requirements for Major – 3 credits (6 credits beginning 2012-2013)

**GeoSci 307** - Geologic Writing (Jr. writing requirement) (Spring only) 3 credits  
**Beginning 2012-2013** – Integrative Experience (to be determined) (3 credits)

TOTAL CREDITS FOR GEOLOGY B.S. (including Supporting Sciences): 67-69

Revised 4/11