

Checklist for the BS Degree in GEOLOGY (Earth Science Track)

The purpose of the Earth Science Track is to fulfill Standard I (field of knowledge) requirements of the Secondary Teacher Education Program (STEP) towards Earth Science Teacher Certification in Massachusetts - see School of Education for details

Basic Earth Science Block – 4 courses, 15-16 credits

GeoSci 101 - The Earth (both semesters) - Or GeoSci 105 or GeoSci 109 plus Geo 131 (equivalent to the GeoSci 101 lab)	4 credits
GeoSci 103 - Introductory Oceanography (both semesters)	4 credits
Astron 100 - Exploring the Universe	4 credits
GeoSci 354 - Climatology (<u>Fall only</u>) or Astron 105 - Weather & Our Atmosphere	3-4 credits

Supporting Sciences – 6 courses, 23-24 credits

Biology - at least 1 semester with lab (<i>Biol 100, 102, or 103</i>)	4 credits
Calculus - at least 1 semester (<i>Math 127, 131, or 135</i>)	3-4 credits
Chemistry I & II - 2 semesters with lab (<i>Chem 111-112</i>)	8 credits
Physics I & II - 2 semesters with lab (<i>Physic 131-132 or 151-152</i>)	8 credits

Geology Core Courses – 4 courses, 15 credits

GeoSci 201 - History of the Earth (<u>Spring only</u>)	4 credits
GeoSci 231 - Geological Field Methods (<u>Spring only</u>)	3 credits
GeoSci 311 - Mineralogy (<u>Fall only</u>)	4 credits
GeoSci 321 - Petrology (<u>Spring only</u>)	4 credits

Electives* – 3 courses, 9 credits minimum

Upper division Geology and/or <u>Physical</u> Geography courses Courses numbered 300 and higher ; <i>*select courses in consultation with an advisor</i>	9 credits
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Recommended

GeoSci 396, 396R, 396T, 496, 496R, 496T - junior or senior research projects, a senior thesis, or independent studies with individual faculty members are strongly encouraged. These are for variable credits, which can be applied to the electives.

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

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

TOTAL CREDITS FOR GEOLOGY B.S.-EARTH SCIENCE TRACK (incl. Supporting Sciences): 65-67