

B.S. in GEOSCIENCES
Geology Option
Students graduating in 2008

UNIVERSITY REQUIREMENTS

A minimum of 120 semester credits are required for graduation. Of these, not more than 60 credits can have a GEOS prefix including cross listed and substituted courses; there must be 60 credits outside GEOS.

COLLEGE OF SCIENCE REQUIREMENTS

1. **Area 1--Writing and Discourse** (12 credits) ENGL 1105 (3), 1106 (3), 6 hours writing intensive satisfied by GEOS 3204 (3), GEOS 4024 (3).
2. **Area 2--Ideas, Cultural Traditions and Values** (6 credits) Courses approved for the University Core Curriculum
3. **Area 3--Society and Human Behavior** (6 credits) Courses approved for the University Core Curriculum.
4. **Area 4--Scientific Reasoning and Discovery** (8 credits) Satisfied by Geosciences courses
5. **Area 5--Quantitative and Symbolic Reasoning** (6 credits) Satisfied by Mathematics courses required for major
6. **Area 6--Creativity and Aesthetic Experience** (3 credits) Courses approved for the University Core Curriculum. One 3 credit course only.
7. **Area 7--Critical Issues in a Global Context** (3 credits) Must be from list of courses approved for the University Core Curriculum. Courses taken to satisfy this University Core requirement may overlap or "double count" with other areas of the core, with the student's major, and with electives.
8. **Foreign Language** (6 credits or equivalent)¹. Requirement can be satisfied by 3 years of a single language in High School, or two years in High School and a 2nd semester course at Virginia Tech i.e., (1106 course number) in the language² or 2 years in High School and a score of 3 on the AP exam², or a two-course (6 credit) first-year sequence.¹
9. **In major GPA** is calculated on GEOS courses only.

DEPARTMENT OF GEOSCIENCES REQUIREMENTS

1. Mathematical Sciences (16 credits)
 - a. Math 1114 (2), 1205 (3), 1206 (3), 1224 (2), 2224 (3).
 - b. Statistics 3005 (3).
2. Natural Sciences other than Geosciences (24 credits)
 - a. Chemistry 1035 (3), 1036 (3), 1045 (1), 1046 (1).
 - b. Physics 2305 (4), 2306 (4).
 - c. Biology 1105 (3), 1115 (1), 1106 (3), 1116 (1).
3. Geosciences (50 credits)
 - a. 1004 (3), 1005 (1), 1014 (4), 1104 (1), 2444 (2), 3104 (3), 3204 (3), 3404 (3), 3504 (3), 3604 (3), 3704 (3) 4024 (3), 4494 (6).
 - b. 3 additional from GEOS 3000 or 4000 level.
 - c. 9 additional credits from GEOS 4000 level. Maximum of 4 credits combined from GEOS 4974, 4994.
4. Free Elective 6 credits for a total of 120.

¹In general, these 6 credits cannot be counted toward the 120 credits required for graduation.

²These 3 credits count toward the 120 required minimum.