William & Mary Geology Major Requirements (≥ 36 credit hours)
If students know which subdisciplines they might want to explore for senior research, they should take those courses before the end of their junior year.

INTRODUCTORY SEQUENCE

Choose one:
- □ 101&160 Physical Geology + Intro Geology Lab All semesters (4)
- □ 110&160 Physical Geography + Intro Geology Lab All semesters (4)
- □ 250 Geologic Evolution of Virginia All semesters (4)

CORE COURSES (all require Introductory Sequence)

□ 321 Rock-Forming Minerals Fall (4)
□ 323 Earth Structure and Dynamics Spring (4)

Choose one:
- □ Group A
  - □ 315 Hydrology (prereq: Math 111) Alternate Spring (4)
  - □ 316 Environmental Geochemistry Fall (3)
  - □ 320 Earth Surface Processes Fall (4)
  - □ 327 Igneous & Metamorphic Petrology (prereq: Geol 321) Spring (3)

Choose one:
- □ Group B
  - □ 322 The Sedimentary Record Fall (4)
  - □ 324 Paleoclimatology & Paleoceanography Spring (4)
  - □ 325 Paleontology Spring (3)

Choose one more from A or B to total at least 10 credits

SENIOR RESEARCH (must pass with C- or better)

□ 404 Introduction to Geological Research Spring (1)

Choose one:
- □ 491&492 Senior Research Fall&Spring (3/1)
- □ 495&496 Honors Research Fall&Spring (3/3)

RELATED SCIENCE PROFICIENCIES: Choose two courses to total 8 credits. These courses do not count towards the minimum 36 credits in geology.

□ Chem 103&Lab (4) Fall □ Chem 206&Lab (4) Spring (prereq Chem 103)
□ Chem 208&254 (4) Spring (prereq Chem 103)
□ Phys 101 (4) Fall (prereq Math 111) □ Phys 102 (4) Spring (prereq Phys 101)

A year of calculus (or advanced statistics), a year of chemistry, a year of physics, and geology field camp are helpful for certain careers and graduate programs in the earth sciences

ELECTIVE COURSES: Totaling ≥ 9 credits.

- Additional courses from Groups A and B can be used for elective credits, but only one of the following courses can count towards the major:
  - Age of Dinosaurs (GEOL 203), Planetary Geology (GEOL 207), OR Global Climate Change (GEOL 212)
  - Watersheds (GEOL 314) OR Hydrology (GEOL 315)
  - Marine Geology (GEOL 421) OR Fundamentals of Marine Geology (MSCI 401C&R)

See next page
GEOLOGY CONCENTRATION (G)
ENVIRONMENTAL GEOLOGY CONCENTRATION (EG):
- Must take 314 or 315, but only one counts towards the major.
- Must take (BIOL 204 or 318 or 417 or 426 or 427 or 461) or ENSP 440: Restoration Ecology

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Schedule</th>
<th>Credits</th>
<th>Department</th>
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<td>Age of Dinosaurs</td>
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*With Chair permission only