

Degree Requirements

Master of Science in Geosciences, Geology Concentration

Thesis Option (36 hours)

1. [GEOS 8002](#) (Geoscience Research Methods) to be taken the first time offered after the student's admission to the program.
2. Techniques training equivalent by completion of one of the following courses: [GEOS 6518](#) (Digital Cartography); [GEOS 6530](#) (Introduction to Remote Sensing); [GEOS 6532](#) (Introduction to Geographic Information Systems); [GEOS 6534](#) (Advanced Geographic Information Systems). This course may count toward the departmental minimum credit hour requirements.
3. Geology courses (14-20 hours)
 - o [GEOS 6000](#) Advanced Topics in Physical and Historical Geology (4)
 - o [GEOS 6003](#) Aqueous Geochemistry (4)
 - o [GEOS 6005](#) Geology of Georgia (3)
 - o [GEOS 6006](#) Sedimentary Environments and Stratigraphy (4)
 - o [GEOS 6007](#) Hydrogeology (4)
 - o [GEOS 6011](#) Principles of Paleontology (4)
 - o [GEOS 6013](#) Structural Geology (4)
 - o [GEOS 6097](#) Topics in Geological Sciences (1-3)
 - o [GEOS 6120](#) Basic Field Geology (3)
 - o [GEOS 6121](#) Advanced Field Geology (3)
 - o [GEOS 8001](#) Soils, Clays, and Weathering (4)
 - o [GEOS 8003](#) Radiogenic Isotope Geology (3)
 - o [GEOS 8097](#) Directed Study in Geology (1-3)
4. Seminar (1-2 hours) [GEOS 6095](#) Seminar in Geological Sciences
5. Extra departmental courses (3-6 hours): An approved list of courses is available from the Department of Geosciences.
6. Foreign language: Proficiency in a foreign language or in an approved research skill in computer programming. This requirement can be fulfilled by taking an approved course or by taking an examination.
7. Thesis Research ([GEOS 8999](#)) (9 hours).
8. Completion of Thesis and pass oral examination of Thesis.

Non-Thesis Option (36 hours)

1. [GEOS 8002](#) (Geoscience Research Methods) to be taken the first time offered after the student's admission to the program.
2. Techniques training equivalent by completion of one of the following courses: [GEOS 6518](#) (Digital Cartography); ([GEOS 6530](#) (Introduction to Remote Sensing); [GEOS 6532](#) (Introduction to Geographic Information Systems); [GEOS 6534](#) (Advanced Geographic Information Systems). This course may count toward the departmental minimum credit hour requirements.
3. Geology Courses (14-20 hours)
 - o [GEOS 6000](#) Advanced Topics in Physical and Historical Geology (4)
 - o [GEOS 6003](#) Aqueous Geochemistry (4)
 - o [GEOS 6005](#) Geology of Georgia (3)
 - o [GEOS 6006](#) Sedimentary Environments and Stratigraphy (4)
 - o [GEOS 6007](#) Hydrogeology (4)
 - o [GEOS 6011](#) Principles of Paleontology (4)
 - o [GEOS 6013](#) Structural Geology (4)
 - o [GEOS 6097](#) Topics in Geological Sciences (1-3)
 - o [GEOS 6120](#) Basic Field Geology (3)
 - o [GEOS 6121](#) Advanced Field Geology (3)
 - o [GEOS 8001](#) Soils, Clays, and Weathering (4)
 - o [GEOS 8003](#) Radiogenic Isotope Geology (3)
 - o [GEOS 8097](#) Directed Study in Geology (1-3)
4. Seminar (1-2 hours) [GEOS 6095](#) Seminar in Geological Sciences
5. Extra departmental Courses (6-9 hours). An approved list of courses is available from the department
6. Directed Study (3 hours) [GEOS 8097](#) Directed Study in Geology
7. Comprehensive Examination: Pass a general written examination taken within the first year of study
8. Foreign language: Proficiency in a foreign language or in an approved research skill in computer programming. This can be fulfilled by taking a course or taking an examination.
9. Submission and approval of research project paper and pass oral examination of research project.