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)
   - **GEOS 6000** Advanced Topics in Physical and Historical Geology (4)
   - **GEOS 6003** Aqueous Geochemistry (4)
   - **GEOS 6005** Geology of Georgia (3)
   - **GEOS 6006** Sedimentary Environments and Stratigraphy (4)
   - **GEOS 6007** Hydrogeology (4)
   - **GEOS 6011** Principles of Paleontology (4)
   - **GEOS 6013** Structural Geology (4)
   - **GEOS 6097** Topics in Geological Sciences (1-3)
   - **GEOS 6120** Basic Field Geology (3)
   - **GEOS 6121** Advanced Field Geology (3)
   - **GEOS 8001** Soils, Clays, and Weathering (4)
   - **GEOS 8003** Radiogenic Isotope Geology (3)
   - **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).

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)
   - GEOS 6000 Advanced Topics in Physical and Historical Geology (4)
   - GEOS 6003 Aqueous Geochemistry (4)
   - GEOS 6005 Geology of Georgia (3)
   - GEOS 6006 Sedimentary Environments and Stratigraphy (4)
   - GEOS 6007 Hydrogeology (4)
   - GEOS 6011 Principles of Paleontology (4)
   - GEOS 6013 Structural Geology (4)
   - GEOS 6097 Topics in Geological Sciences (1-3)
   - GEOS 6120 Basic Field Geology (3)
   - GEOS 6121 Advanced Field Geology (3)
   - GEOS 8001 Soils, Clays, and Weathering (4)
   - GEOS 8003 Radiogenic Isotope Geology (3)
   - 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.