Georgia State University is a research-intensive public university with an enrollment of over 50,000 students. Located in the heart of Atlanta, GSU is easily accessible by public transportation as well as by car, and our campus is convenient to a wealth of housing, entertainment, and employment options.

A focused, diverse department
The Department of Geosciences has 13 faculty members and approximately 50 active graduate students. Faculty and staff in the department work tirelessly to deliver high-quality educational and research opportunities in geology, water sciences, and geography. Our students are from all over the world, and they work with our faculty on research projects spanning the globe.

Outstanding advisors and courses
Students in the Geology concentration may choose classes to tailor a program that suits their goals. The faculty’s area of interest continually evolve to reflect developing technologies, events, and opportunities. Current geology-research interests include geochemistry, sedimentology, soil chemistry, hydrogeology, surface hydrology, clay mineralogy, petrology, geoinformatics, structural geology, and paleoenvironmental reconstruction. Students can enhance their geology training through other courses such as geographic information systems, remote sensing, and quantitative spatial analysis, which are also offered in the Department of Geosciences.

Full tuition waivers and stipends
Full-time students are eligible for assistantships that include full tuition waivers, a stipend, and teaching opportunities, along with a personal workspace and computational resources in the department.

A door to opportunities
A majority of our recent graduates have either gained employment in their fields of study or have entered well-regarded Ph.D. programs. The department also offers a Professional Certificate in Geographic Information Science, and many students simultaneously pursue a master’s degree and the professional certificate.

For more information, please feel free to contact any of our faculty members or our graduate director, Dr. Larry Kiage (lkiage@gsu.edu).
M.S. DEGREE IN GEOSCIENCES

GEOLGY

Application Deadlines:
April 15 for upcoming Fall semester
November 1 for upcoming Spring semester

Application Requirements:

Online Materials: statement of purpose, resume or cv, and three letters of recommendation
Additional Materials: official GRE scores, official transcripts, and official TOEFL scores (international applicants only)

Foundation Coursework:
These courses are assigned as part of the admission process. They can be exempted if equivalent work has been completed with grades of C or higher. Note: Field Geology requirement may be satisfied by presenting evidence of supervised field work in Geology performed at the upperdivision undergraduate level. Graduate students who are required to take the Geology Foundation courses should take them at the graduate level (i.e., 6000 and higher) if available.

a. Geology (0-26 hours)
   GEOS 1121K Introductory Geosciences I (4)
   GEOS 1222K Introductory Geosciences II (4)
   GEOS 7002 Introduction to Earth Materials (4)
   GEOS 4006 Sedimentary Environments and Stratigraphy (4)
   GEOS 4013 Structural Geology (4)
   GEOS 4120 Basic Field Geology (3) and
   GEOS 4121 Advanced Field Geology (3)

b. Allied Disciplines (0-20 hours)
   Calculus: MATH 2211 (4) and MATH 2212 (4)
   Physics: PHYS 1111K (4) or PHYS 2211K (4)
   Chemistry: CHEM 1211K (4) and CHEM 1212K (4)

Students may still be admitted and receive an assistantship if they have not completed the foundation coursework.

Thesis Option (36 hours)
1. GEOS 8002 (Methods of Geographic Research) 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 the Geosciences
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.
7. Thesis Research (GEOS 8999) (9 hours).

Non-Thesis Option (36 hours)
1. GEOS 8002 (Methods of Geographic Research) 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 the Geosciences
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 after the first year of study.
8. Foreign language: Proficiency in a foreign language or in an approved research skill.
9. Submission and approval of research project paper and pass oral examination of research project.