The Middle Tennessee State University Department of Geosciences advances our understanding of Earth as a dynamic and complex system, its past and present evolution; examines the human impact and implications of global change; and educates the next generation of scientists, researchers, teachers, policy makers, entrepreneurs, and environmental professionals.

The Department of Geosciences follows a holistic approach to science education. The faculty believes that graduates with a well-rounded education are best prepared to solve the many complex problems of energy and the environment which mankind faces in the twenty-first century. MTSU Geoscience students follow a rigorous academic pathway of geoscience, chemistry, biology, mathematics and physics courses, but also complete coursework in the arts, humanities and social sciences. Many geoscience students take classes in the College of Business and the College of Communications in preparation for professional careers.

BY THE NUMBERS: 2017-2018

13 Faculty
(10 Professors + 3 Instructors)

Located in newly renovated classrooms, teaching labs, research labs, and student study areas in Davis Science Building.

120 Undergraduate and Graduate Students majoring in Geosciences programs

Small student to faculty mentor Ratio (10:1); assigned faculty mentor to each Geosciences major

Three undergraduate concentrations:
Geology, Physical Geography, Environmental Science (beginning Fall Semester 2018)

Six undergraduate career tracks:

Recent alumni graduate school placements: Cornell, Vanderbilt, Notre Dame, Texas Christian, Oklahoma

Three graduate academic emphasis areas: Geographic Information Systems, Environmental Geosystems, Geoscience
**DEGREE PROGRAMS**

**UNDERGRADUATE**
The Department of Geosciences offers a Bachelor of Science with a major in Geosciences and concentrations in Geology, Physical Geography and Environmental Science (beginning Fall Semester 2018).

**GRADUATE**
The Department offers a Geosciences concentration in the Masters of Science in Professional Sciences, with emphasis areas in Geographic Information Systems, Environmental Geosystems, and general Geoscience.

**FACILITIES**

**TEACHING**
Classroom, laboratory, and field-based curriculum covering the solid Earth, oceans, atmosphere, physical geography, geographic information systems, and remote sensing; extensive collection of fossils, rocks and minerals from all over the world; departmental computer labs with modern geoscience-specific software; low student to faculty ratio.

**RESEARCH**
Geospatial Research Center offers cutting-edge capabilities in geographic information systems and remote sensing applications. Modern laboratory instrumentation and field equipment for applied and basic research in geology. High student participation rate in faculty-directed research.

**FIELD TRIPS**

Above: A MTSU Geoscience student visits ancient volcanoes in the Cascade Range.

Field trips are an essential part of the learning process in the Department of Geosciences. Faculty regularly lead students on weekend field trips throughout the southeastern United States. During these trips students study the geologic history of their field areas and learn important field skills such as geoscience data collection and interpretation, synthesizing geological histories, report writing and geologic mapping. In addition to weekend fieldtrips, the Department of Geosciences offers extended summer field courses in Colorado, the Southwest, and the Pacific Northwest.

**Co-Curricular Activities**

MTSU Geoscience students have opportunities to participate in many co-curricular activities, including student organizations, pre-professional internships, faculty-directed research, and study abroad. As a diverse institution, MTSU offers its students many opportunities to meet and take classes with students of other cultures from all over the world.

**MTSU Geosciences**

21st Century Solutions for a 46-Million Centuries Old Planet