

# Geology

## Degree: Bachelor of Science in Geology

The Geology program is focused around three concentrations: Paleontology, Petroleum Geology, and Environmental Geology. The faculty at Marietta College are committed to providing Geology students with a rock solid education. This includes extensive field work in the Appalachian Mountains, the mid-Ohio valley, and the Ordovician of Cincinnati and Kentucky, as well as the opportunity to do specialized research in the classrooms. The department's annual May field trip to a dinosaur excavation site in Utah is supplemented by optional field trips to other areas such as West Texas, New Mexico, and South Dakota. Students complete a senior capstone that is a research project modeled on a Master's thesis.

### Full-time faculty:

Dr. Robert Chase, Professor, Chair of the Department

E mail: [chaser@marietta.edu](mailto:chaser@marietta.edu)

Dr. David Jeffery, Associate Professor

Dr. Frederick Voner, Associate Professor

Wendy Bartlett, Lecturer

Veronica (Rocky) Freeman, Lecturer



### Facilities:

The geology labs have everything you need for research, including thin-sectioning equipment, petrographic microscopes, and a dedicated space for cleaning and preparing dinosaur bones and materials for study.

The technology and equipment for Geographic Information Systems (GIS) is housed in the Rickey Science Center, adjacent to the Brown Petroleum/Geology building.

### Courses offered:

Physical Geology

Historical Geology

Earth Resources

Mineralogy and Petrology

Geology Capstone

Petrophysics

Dinosaurs

Intro to GIS Mapping and Analysis

Demonstration Field Trip, Sedimentation and Stratigraphy

Invertebrate Paleontology

Petroleum Geology

Formation Evaluation

Hydrology

General Chemistry I and II

General Chem. Lab I and II

Modern Biology

Environmental Biology

Introductory Biology Lab I and II

General Physics I and II

Calculus I

Scientific Computing and Problem Solving

Technical Writing



[http://www.marietta.edu/Academics/undergraduate\\_degrees/geology.html](http://www.marietta.edu/Academics/undergraduate_degrees/geology.html)

**Honor Societies and Student Organizations:**

The **Geological Society of Marietta College** promotes the study of geology by regularly sponsoring field trips. It is open to all students, faculty, and community members.

Majors are also able to join the **Society of Petroleum Engineers (SPE)**. Through a vast array of SPE programs, ranging from publications to international and regional conferences, students gain information on the industry and the opportunity to network with industry professionals.

**Scholarship Opportunities:**

**The Paul Fulton Memorial Scholarships** are awarded annually to students majoring in petroleum engineering or geology and provide support for student research projects.

**The Warren G. Steel/Dwayne D. Stone Scholarship** provides financial assistance to geology majors demonstrating financial need.

**Past Internships:**

American Geological Institute (AGI), Washington, D.C.  
 NASA Johnson Space Center, Nasa Bay, Texas  
 National Resource Conservation Services (NRCS)  
 The Mammoth Site, Hot Springs, South Dakota  
 US Park Services, Badlands National Park, South Dakota

**What can I do with this degree?**

Field Geologist  
 Petroleum Geologist  
 Earthquake or Volcano Geophysicist  
 Environmental Analyst

**Graduate/Professional Schools Attended by MC Graduates:**

State University of New York at Stonybrook, Ph.D.  
 Clemson University, South Carolina, Ph.D.  
 East Carolina University, North Carolina, MS  
 Miami University of Ohio, MS  
 University of Cincinnati, MS  
 Bowling Green University, MS  
 Texas A&M University, MS, Ph.D.

**Career Outcomes of MC Graduates:**

Field Engineer, Baker Hughes, Dead Horse, Alaska  
 Principal, H2H Consulting Associates  
 Senior Geologist, British Petroleum  
 Petroleum Geologist, Triad Resources  
 Bone Bed Curator/Secondary Educator, The Mammoth Site, South Dakota  
 Division Manager, Environmental Consulting Division of Green Environmental, Inc.  
 Post-Doctoral researcher, Lawrence Livermore Laboratories, California



*"I chose MC because it just felt like a good fit when I visited and it had a major I was interested in –petroleum engineering. Once I began my coursework, I quickly realized that petroleum engineering wasn't for me. I had taken a couple of geology courses and found that I rather enjoyed it and was proficient at it. Obviously, this decision affected my career in that it gave me a means to actually have a career in earth sciences. I am now a geologist with Arcadia US and work primarily includes environmental assessment and remediation."*

**Jay Read, Class of 2005**