



Petroleum Engineering

Degree: Bachelor of Science in Petroleum Engineering



The Petroleum Engineering Program is accredited by the Engineering Accreditation Commission of ABET, Inc., 111 Market Place, Ste. 1050, Baltimore, MD 21202-4012, 410-347-7700

Marietta is the 9th largest undergraduate petroleum engineering program in the United States. Our professors are wholly dedicated to making sure you receive a comprehensive and in-depth education in the areas of drilling, production, and reservoir engineering. Starting salaries for petroleum engineers are the highest of all engineering disciplines. At Marietta, we blend the best of two distinct worlds – the hands-on, practical application of an engineering program and a broad educational background that includes courses in leadership and the liberal arts.

Full-time faculty:

Dr. Robert Chase, Professor, Chair of the Department

Dr. Paul Daniell, Associate Professor

Dr. Benjamin Thomas, Associate Professor

Andrew Grimm, Associate Professor

Ben Ebenhack, Associate Professor

David Freeman, Associate Professor

Facilities:

Drilling and completion fluids laboratory; Rock and fluids analysis laboratory; Natural gas engineering laboratory

Sample Courses:

Petrophysics

Hydrocarbon Phase Behavior

Reservoir Engineering

Drilling Engineering

Production Systems Engineering I and II

Formation Evaluation

Enhanced Recovery

Natural Gas Engineering

Transient Pressure Analysis

Senior Capstone

Engineering Statics

Strength of Materials

Fluid Mechanics

Economic Analysis and Investment Decision Methods

Electrical Engineering

Thermodynamics

Calculus I and II

Advanced Engineering Mathematics

Engineering Statistics

Differential Equations

Physical Geology

Historical Geology

Petroleum Geology

General Physics I and II

General Chemistry I and II

General Chemistry Lab I and II

Scientific Computing & Problem Solving

Technical Writing

Honor Societies and Student Organizations:

Petroleum engineering majors with a GPA of 3.0 and junior standing are eligible for **Pi Epsilon Tau**, the national honor society for petroleum engineering students.

Majors are also expected 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.

The Department also sponsors a student chapter of the **American Association of Drilling Engineers (AADE)**. Upper class students participate in professional workshops and conferences.

Scholarship Opportunities:

The **David A. Bartlett Memorial Scholarship** assists qualified students majoring in petroleum engineering.

The **Harry H. Beren Scholarship** is awarded to worthy students in the Edwy R. Brown Department of Petroleum Engineering who need financial assistance.



The **Alan Adrian Hardwick Boggs Scholarship** provides assistance to a deserving student pursuing a Bachelor of Science Degree in Petroleum Engineering. Preference is given to a fourth-year student with the highest grade-point average in the humanities.

The **Robert L. Brace Memorial Scholarship** provides assistance to a deserving student majoring in petroleum engineering.

The **Robert M. Cunningham Petroleum Engineering Scholarship** is awarded annually to a junior or senior petroleum engineering major who, in the opinion of a faculty committee, "best represents the entrepreneurial spirit and creative energy that characterized the founders of the nation's petroleum industry."

The **Doy C. Deem Scholarship** aids qualified students in petroleum engineering.

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

NASA sponsored Space Grant Research Scholarships are awarded to upper class students. The program promotes undergraduate research in mathematics, science, and engineering.

Past Internships:

Newfield Exploration, TX
 Anadarko Petroleum, CO
 Marathon Oil, TX
 Chevron, TX
 EQT Production, PA
 Energy Corporation of America, WV

What can I do with this degree?

Reservoir Engineer
 Production Engineer
 Drilling Engineer
 Upper-level Corporate Management

Graduate/Professional Schools MC Graduates Have Attended:

Colorado School of Mines, MS, PhD
 Penn State University, MS, PhD
 University of Texas, Austin, MS, PhD
 Texas A&M University, MS, PhD
 West Virginia University, MS, PhD

Career Outcomes of MC Graduates:

Gas Storage Manager Columbia Natural Resources
 Production Engineering Manager, Exxon Mobil
 President, Halliburton Services
 Vice President of International Drilling, BP
 Vice President, Newfield Exploration

<http://www.marietta.edu/~petr/courses.html>

PLEASE NOTE SPECIAL ADMISSION CONSIDERATIONS APPLY:

The Pre-Petroleum Engineering Program can accommodate no more than 60 first-year students. Priority will be given to students with the highest academic promise and to those who declare an intention to major in this subject before April 1.

This field of study relies heavily on mathematical skills. Students accepted into the entering class must be ready for calculus in the first year. An ACT score in math below 24, an SAT in math below 550, or a score on our math placement test that indicates a need for Intermediate Algebra (MATH 080), predict that a student is not ready to begin in Pre-Petroleum Engineering as a first-year student. Students needing MATH 080 will not be accepted into the Pre-petroleum Engineering Program, but may be able to join later when their performance in math indicates a readiness for Calculus.

Pre-petroleum students who do not have a GPA above 2.000 at the end of the first semester and those who do not have at least a 2.500 GPA in 32 hours of required courses at the end of the first year will be required to seek another major. Conversely, first-year students of high ability who were accepted into the College, but could not begin in Pre-petroleum Engineering because of space limitations may be eligible to join after successfully finishing their first semester at Marietta College. Students transferring into the program from another campus should have a GPA of at least 3.000.

"I knew I wanted to do something with math and science, and I had grown up with family in the oilfield. So, I knew I wanted to major in Petroleum Engineering. Throughout college, I was lucky enough to work all over the US for various oil companies. When I graduated, I decided to work for Anadarko Petroleum Corporation in Houston, Texas. I know that my Petroleum Engineering degree from Marietta College played a large part in getting me where I am today."

Cassie Steffy, Class of 2003, Senior Engineer, Anadarko