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
Dr. Rakibul Sarker, Assistant Professor
Andrew Grimm, Associate Professor
Ben Ebenhack, Associate Professor
David Freeman, 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:
Petrophysics 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.

Students may join the 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 to promote 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

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

PLEASE NOTE SPECIAL ADMISSION CONSIDERATIONS APPLY:

The Pre-Petroleum Engineering Program can accommodate no more than 90 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 25, an SAT in math below 570, 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.

Students must have a high school GPA at graduation of 3.4 or above.

Pre-petroleum students who do not have a GPA above 2.500 at the end of the first semester and those who do not have at least a 2.750 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 must have a GPA of at least 3.000.