



PETROLEUM ENGINEERING

Pioneers always lead the way

Driven and adventure-seeking students make use of their abilities and take charge of their future in Marietta College's Petroleum Engineering Program.

This competitive major prepares students to thrive in careers in upstream oil and gas operations, specializing in reservoir engineering, drilling engineering, production engineering and upper-level management. Our talented professors are wholly dedicated to providing a comprehensive, in-depth education that is based in the liberal arts.

Marietta College has the top liberal arts-based undergraduate petroleum engineering program in the nation and is internationally accredited by the Engineering Accreditation Commission of ABET, Inc. Our students benefit from classroom, laboratory and fieldwork experience. When they graduate from Marietta College, they are ready for success in the industry, which happens to lead all engineering disciplines in starting salary.

Industry leaders know the quality of our graduates — and many of them are Marietta alumni who remain close to the College throughout their careers.

Marietta College's Petroleum Engineering Program is for students who know exactly where they want to be — MOVING FORWARD.

Learn more about what makes a Marietta College Petroleum Engineer at www.marietta.edu/petro-department



Jerry Tardivo Alcoser '02
Manager of Business Development, Chevron
Tomball, Texas

Jerry has traveled and lived around the world. She continues to look for opportunities to hire Marietta graduates. "I was given the opportunity to work internationally with five years of experience, which I was very excited about. When I was in Africa, I was working with people from 14 different countries, and they spoke different languages. I had to lead that team, and I believe my experience at Marietta helped prepare me for this."

This is the time. This is the place.

PETROLEUM ENGINEERING

Curriculum

In addition to a liberal arts core curriculum, Petroleum Engineering majors prepare for careers in the energy industry by completing a rigorous course load:

- Petrophysics
- Hydrocarbon Phase Behavior
- Reservoir Engineering
- Drilling Engineering
- Production Systems and Engineering I and II
- Formation Evaluation
- Enhanced Recovery
- Natural Gas Engineering
- Transient Pressure Analysis
- Senior Capstone
- Engineering Statistics
- 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

Facilities

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

Honor Societies and Student Organizations

Petroleum engineering majors with a GPA of 3.25 and junior standing are eligible for acceptance to Pi Epsilon Tau, the national honor society for petroleum engineering students. Marietta's GPA requirement for this honorary exceeds the national requirement.

Majors also join and take leadership roles in the Society of Petroleum Engineers (SPE). Through membership in SPE, students gain information on the industry and networking opportunities with industry professionals through publications and during regional and international conferences.

Students also may join the student chapter of the American Association of Drilling Engineers (AADE), which offers opportunities for upper level students to participate in professional workshops and conferences.

The Society of Women Engineers (SWE) offers a network of support and learning opportunities for current and past Marietta College students, and generates awareness and interest in engineering as a future profession for local school children.

Majors may join the Energy Business Alliance, a student-operated simulated energy company that prepares petroleum engineering students to work in the energy industry by performing simulated projects and by partnering with local companies and engineers.

Admission Considerations

Admission to the Petroleum Engineering program is selective. To be admitted, a student should have taken a strong college-preparatory curriculum in high school, with a GPA above 3.4. Since the program relies heavily on mathematical skills, a student should have successfully completed at least pre-calculus, and preferably calculus, while in high school. It is possible to be admitted to Marietta College, and not be admitted to the Petroleum Engineering program. If that is the case, a student would need to choose another major to attend. Students looking to transfer into the program from another college should have strong high school record and a college GPA above 3.0.