# OCEAN ENGINEERING

## What can I do with this major?

### AREAS

**ANY ENGINEERING DISCIPLINE**
- Research and Development
- Design
- Production
- Operations
- Management
- Teaching
- Consulting
- Sales and Marketing
- Law
- Manufacturing
- Healthcare

### EMPLOYERS

- Engineering companies
- Consulting companies
- Industry
- Local, state and federal government
- Colleges and universities

### STRATEGIES

- Obtain relevant experience through co-ops or internships for industry-related career.
- Develop strong verbal, written, teamwork and problem-solving skills.
- Pursue Master of Science (MS), Master of Engineering (ME), or Master of Business Administration (MBA) degrees for increased opportunities in technical management.
- Obtain Ph.D. for teaching and research careers.
- Learn federal, state and local government job application procedures.
- Pursue Professional Engineering licensure.

### Ocean Engineering

- Coastal Engineering
- Consulting
- Fossil Energy
- Hydrographic Engineering
- Marine Materials and Corrosion
- Marine Policy/Law
- Marine Robotics
- Marine Vehicles (Navel architecture)
- Ocean Acoustics
- Ocean Instrumentation
- Offshore Structures
- Renewable Energy
- Underwater Technology

- Army Corps of Engineers
- Department of Defense Contractors
- Marine Navigation
- Naval Shipyards
- Oil Industry

- Seek internships, summer jobs, or volunteer positions to gain experience.
- Develop physical stamina, outdoor skills, and comfort in being in water and working on a boat.
- Develop public speaking skills through coursework or experience. Practice good communication and problem solving skills.
- Exercise close attention to detail.
- Attain certification in SCUBA.
- Become familiar with government job application procedures and use your college career center for assistance.
- Seek leadership roles in student organizations.
- Maintain an excellent GPA, particularly in mathematics, and build relationships with faculty. Strong recommendations from professors are needed for graduate and professional schools.
- Join professional associations and environmental groups as way to learn about the field and network.
- Consider earning a master’s degree to be more competitive.
GENERAL INFORMATION

- Utilize Sloan Career Cornerstone Center’s website to learn more about opportunities in engineering.
- A bachelor’s degree provides a wide range of career opportunities in industry, business and government.
- Bachelor’s degree is good background for pursuing technical graduate degrees as well as professional degrees in Engineering, Business Administration, Medicine or Law.
- Graduate degrees offer more opportunities for career advancement, college or university teaching positions.
- Related work experience obtained through co-op, internships, part-time or summer jobs is extremely beneficial.
- Develop excellent verbal and written communications skills including presentation and technical report writing. Learn to work well on a team to maximize collaborations with other engineers and those outside of the profession.
- Develop computer expertise within field.
- Engineers need to think in scientific and mathematical terms and exhibit the abilities to study data, sort out important facts, solve problems and think logically. Creativity is useful.
- Other helpful traits include intellectual curiosity, technical aptitude, perseverance and a basic understanding of the economic and environmental context in which engineering is practiced.
- Because of rapid changes in most engineering fields, both continued education and keeping abreast of new developments are very important.
- Join relevant professional associations, attend meetings, participate in design competitions and stay up-to-date on research/publications.
- All states and the District of Columbia require registration of engineers whose work may affect the life, health or safety of the public.
- Professional or technical societies confer certification in some areas.
- Research Fundamentals of Engineering (FE) exam requirements, as this exam is typically the first step in becoming a Professional Engineer (PE).
- Professional Engineer (PE) licensing guidelines vary by state. Check with the National Council of Examiners for Engineering and Surveying (NCEES) for links to state boards.
- Become familiar with the federal job application and employment procedures.

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