UNIVERSITY OF THE PACIFIC
School of Engineering and Computer Science

A place where students...

1. Complete 7 ½ months of a domestic or int’l paid internship (Co-op)
2. Attend a Tier I nationally ranked university
3. Travel overseas: Co-op/study abroad/humanitarian work
4. Graduate in four years (vs. 5 ½-year national average)
5. Enjoy access to Silicon Valley industry and resources
6. Earn a Master’s degree in just five years
7. Get a great job upon graduation

All on the Pacific foundation of small classes and an award-winning Student Life program!
WHY CHOOSE PACIFIC?

Superior Education
- **Small Classes**—the average class size is 14 students
- **Accessible Faculty**—Classes are taught by professors who mentor students inside and outside of class
- **Faculty Advisor**—Your advisor works with you to be sure you get the best possible classes and graduate on time
- **Undergraduate Research and Design Experience**—extensive hands-on experience
- **Exceptional Research Labs**
- **Free Drop-in Tutoring**

Affordable Quality
- **Comprehensive Financial Aid program**—Average financial aid award is $22,000, with 80% of students receiving some financial aid
- Average co-op earnings of $20,250, based on 7½-month co-op
- Save tuition dollars by starting your career as much as 1½ years earlier than most California engineering programs (California’s average is 5½ years to complete a BS in Engineering). That’s nearly $90,000 in additional income!
- **Accelerated Graduate Program**—With Pacific’s blended bachelor’s and master’s degree program, you can increase your earning potential $10,000 – $12,000 per year

Co-op Program
- **300** co-op employers worldwide
- **7.5 months** of required, paid, practical experience integrated with your educational program
- **$3,000/month** is the average co-op salary

*International Engineering Co-op Program*—Work and learn in Japan or Germany
*Engineering Industry Fellowship*—Enjoy even more internships, a scholarship, and an industry mentor while at Pacific

Student Life Program
- 14 Residence halls
- 8 Social fraternity & sorority houses
- 140+ Student clubs
- 50% Students living on campus
- 90% Freshmen living on campus
- 1,400 Students involved in intramural sports
- 4,348 Hours of community service done by freshmen during orientation alone
*In the nation for diversity #2
“More Things To Do On Campus” #12
Diversity Index Top 25
Need-Based Awards Top 40
Best Value Top 50
Contributions to the public good Top 100

*see Admissions brochures for sources.

ABOUT OUR SCHOOL

The mission of the School of Engineering and Computer Science is to provide a superior, student-centered learning environment which emphasizes close faculty-student interaction, experiential education and distinctive research opportunities.

For more information contact us @ soecsoutreach@pacific.edu or 209.946.3905
Bachelor of Science Degrees

**Bioengineering** incorporates biological science coursework with an electrical, computer or mechanical engineering-based curriculum. Options upon graduation are wide-ranging and include immediate work in the bioengineering industry or graduate studies in medicine, dentistry, pharmacy and bioengineering.

**Civil Engineering** offers such concentrations as environmental, construction, structural and water resources engineering. Graduates work with private consulting firms, construction companies, large corporations, governmental agencies, research institutes and universities.

**Computer Engineering** applies basic engineering skills and the fundamentals of computer programming and software design to construct new computer hardware and devices which are built around computers such as automotive controls, cell phones, PDAs and desktop computers. Diverse career opportunities await you in manufacturing, transportation, communication, research, education and management.

**Computer Science** offers concentrations in:
- Networks and security
- Software development
- Games and simulation
- Information systems
- Foundations
- Computational modeling

Computer Scientists write programs that help other people do their work more efficiently, understand scientific phenomena and make new discoveries that were not possible before the computer age. Industry demand for computer scientists is strong and on the rise.

**Electrical Engineering** includes courses and laboratories in circuits, electronics, digital design, signal processing, microprocessors and electric power. These are employed in a number of sectors, including telecommunications, electric power and energy, semiconductors, computers, biomedical devices and aerospace.

**Engineering Management** prepares students for the planning, organizing, scheduling, monitoring, and control of engineering processes through an engineering curriculum incorporating selected course work outside engineering (for example: business, international studies, and economics). Graduates are well prepared for leadership positions in project management, technical marketing, systems engineering, construction management and manufacturing engineering.

**Engineering Physics** is designed to teach practical problem-solving from a foundation in physics and mathematics, combined with a basic training in engineering and design. Engineering physicists work in areas such as energy conversion, solid state devices, elementary particles, nano-scale structures, optics and electromagnetic radiation.

**Mechanical Engineering** allows majors in mechanical systems (applied mechanics) or energy systems (thermal sciences) to prepare for positions in product development, plant design, machine design, basic and applied research, environmental control, materials and manufacturing, robotics or technical sales.

**Special Minors:**
- International Engineering
- Sustainability
Pacific’s master’s degree program allows students to begin graduate course work during their senior year at Pacific, completing both degrees in a total of five years! For most students, undergraduate scholarships and other types of financial aid will continue through this fifth year of studies. For those who need additional support, research assistantships will provide students with tuition scholarships and research stipends. With a master’s degree you will earn $10,000-$12,000 more per year than your colleagues with a bachelor’s degree.

Concentrations
- Civil Engineering (Engineering Management, Environmental, and Structural)
- Computer/ Electrical Engineering
- Computer Science
- Mechanical Engineering

Degree Requirements: Complete a minimum of 30 units in one of two plans:
- Thesis Plan
- Non-Thesis Plan (3 options)
  (A) Project
  (B) Graduate internship with industry
  (C) Coursework only

Admission Requirements for Non-continuing Pacific Students
A Bachelor’s degree in engineering or computer science, or closely related discipline; general subject GRE scores; and a minimum GPA of 3.00 (however, students with exceptional qualities in other areas will be considered). The last 60 units of the undergraduate degree can be used for this calculation. Also required are 3 letters of recommendation and a one-page personal statement that includes: reason for pursuing graduate study, objectives, and plans for graduate study.

Financial Support
Students may receive up to nine units of tuition per semester at no cost, plus a monthly stipend through either of the following graduate assistantships:

Teaching Assistantships: Students assist with instruction in undergraduate courses that contain laboratory components.
Research Assistantships: Students support research endeavors with faculty recording, developing, and executing unique and advanced research experiments and documentation.

Fast Facts
- Total engineering enrollment: 500
- SAT Averages: 1180
- H.S. GPA Average: 3.45
- Total Teaching Faculty: 32
- Average class size: 16
- Faculty with a Doctoral degree: 100%

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