SOFTWARE ENGINEERING

PROGRAM DESCRIPTION
Software engineering is essential to a wide range of industries and organizations, and Cal Poly software engineers are among the university’s most in-demand graduates. The Software Engineering program shares courses with computer science, and students in the two programs take many of the same core computing classes and technical electives. Software engineers expand beyond computer science in areas such as requirements engineering, software architecture and design, user-interface design, software quality assurance, and software deployment and maintenance.

OUR MISSION
The Computer Science and Software Engineering Department educates students with a Learn by Doing paradigm that allows students to apply their education to solve practical problems in a socially responsible way. Our graduates are fully prepared for entry into industry, government, graduate school and private enterprise.

LEARN BY DOING
From programming artificial intelligence problems to designing and developing their own software, students will learn to apply their knowledge to create innovative solutions to real-world problems. Students can explore robotics by building underwater autonomous vehicles or make systems more secure by engaging in ethical hacking practices. With a wide range of electives, clubs and industry projects, students are able to focus on the areas that interest them the most.

ASSOCIATED CLUBS
- Cal Poly App Development Club — polyappdevclub
- Cal Poly Game Development Club (CPGD) — cpgd.org/
- Cal Poly Robotics Club — calpolyrobotics.com
- Color Coded (Diversity in Tech) — www.colorcoded.cc
- SLOHacks — slohacks.com
- Society of Women Engineers — swe.calpoly.edu
- White Hat — thewhitehat.club
- Women Involved in Software & Hardware (WISH) — calpoly.edu/~wish

SOFTWARE ENGINEERING GRADUATES
Software engineering graduates find significant opportunities in software development and management, software engineering and marketing in California and throughout the world. Graduates are highly recruited by industry, including Google, Microsoft, Apple, Yahoo, IBM, SUN, Intel, Intuit, Amgen, Adobe, Salesforce, DreamWorks, Disney, Electronic Arts (and other game companies), Raytheon, Boeing, Cisco, HP, JPL, Saint Jude Medical, Lawrence Livermore National Labs and many more.