BACHELOR OF SCIENCE MAJOR IN COMPUTER SCIENCE

Superior Education
- Exceptional Teaching — 100% of classes are taught by professors—not teaching assistants
- Accessible Faculty — Small class sizes (avg. =17) and professors who mentor students inside and outside of class
- Faculty Advisor — Your advisor works with you to be sure you get the classes you need and graduate on time
- Research and Design — During your senior year you will work with exceptional faculty on a culminating research and design project
- Explore 35 State-of-the-Art Laboratories — With the completion of the John T. Chambers Technology Center there are now 35 exceptional labs
- Personalized Education — Choose one of six concentrations to tailor your education to your interests and aspirations; Mathematics and Science courses are selected according to your interests

Earn While You Learn
- Optional Paid Internships — Pacific’s Computer Science students have the option of completing a paid internship. Pacific’s computer science students earn, on average, $18-20 per hour at paid-internships with industry leaders such as Cisco Systems, NVIDIA, Hewlett

Exceptional Professional Outlook
- Higher Starting Salaries — Starting salaries for Pacific computer science graduates average over $14,000 higher than the national average
- Exceptional Job Opportunities — More than 90% of Pacific graduates report that they could pursue a full-time job offer from a previous paid-internship employer
- Leadership and Management — Students are undergo training in project management and leadership, in the science, technology and innovative project field

Unique Programs
- Distinctive Graduate Program — With Pacific’s five-year blended graduate program you can earn both a bachelor’s and master’s degree in the same time it would take most students to earn only a bachelor’s degree. Most qualified students can receive a full tuition scholarship and a teaching/research stipend. A master’s degree increases your earning potential $10,000-$12,000 per year.
- Four-Year Guarantee — Finish your B.S. in Computer Science a full year ahead of the California average of 5 years, even including a paid internship. Save tuition dollars by starting your career one year earlier, potentially $60,000 or more in additional income
- Virtual Reality Education Research — Sponsored by the National Science Foundation
- International Co-op Program — Work and learn in Japan or Germany
- Tutoring — Academic support to help you be successful in your program

FOR MORE INFORMATION

soecsoutreach@pacific.edu
209.946.3905
engineering.pacific.edu
Concentrations
By choosing one of six concentrations you can tailor your education to your unique interests and aspirations.

Software Engineering
Development of new software applications continues to be a driving factor in the advancement of technology for businesses and consumers. While basic programming skills continue to be an essential aspect of software development, production of quality software requires professional software developers who have a broad set of skills, including design, communication, quality control and management.

Games & Simulation
Video games have rapidly become one of the largest entertainment markets throughout the world. The field is expanding in the area of “serious games,” which are interactive simulations used for training and planning. Professionals in this area need the skills to stay abreast of current technologies for graphics, audio and networking. They also require knowledge in human-computer interaction and the development of real-time simulations.

Computational Modeling
Computational modeling involves the development of computer-based models of real-world systems. These models require a high degree of accuracy since they are generally used for experiments and investigation in which observation and manipulation of the real system is impractical. Professionals in this area should have a strong understanding of computational methods as well as a solid understanding of a particular scientific domain. Combining this concentration with a minor or second major in a particular science is highly recommended.

Information Systems
As the Internet becomes more prevalent, businesses and other organizations are becoming increasingly reliant on technologies that allow employees to stay connected and work from anywhere. Customers are also expecting more personalized experiences when interacting with companies through the Internet. As a result, web-based and network-based applications are evolving to replace the traditional desktop-based applications. Professionals in this area will need to apply the continually evolving web standards and tools to deliver cutting-edge applications and experiences to customers and employees. Combining this concentration with a minor in business is ideal for students with an interest in the application of technology in business.

Networks & Security
Networks and security are essential to enabling the operation of all organizations and enterprises. Professionals in this area will design, develop and maintain mission-critical systems that allow communication within an organization and connect the organization to the rest of the world.

Theoretical Foundations
While computer science has broadened into many areas, allowing for the kinds of specializations indicated by the other concentrations, there will continue to be a need for the core skills required for advancing the discipline of computer science itself. Professionals in this area will typically continue on to graduate school to train for careers in fundamental research in computing, so that they can begin careers as leaders and visionaries in the advancement of computer science.