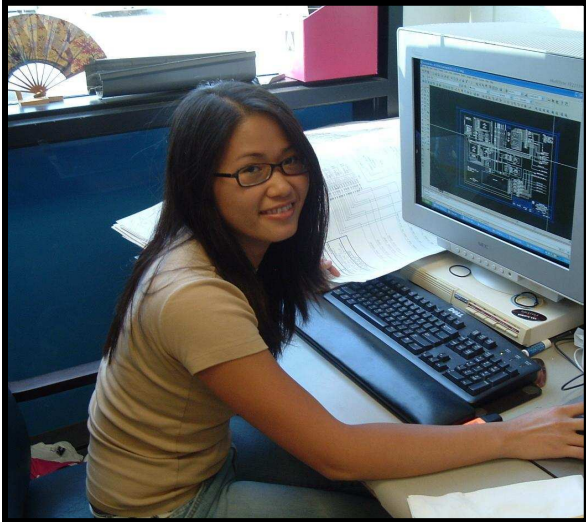


Bachelor of Science Major in Computer Science

UNIVERSITY OF THE
PACIFIC
School of Engineering
and Computer Science



Superior Education

- **Exceptional Teaching** — Classes are taught by professors, not teaching assistants, who are recognized scholars in their fields
- **Accessible Faculty** — Classes are small and professors are known to 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
- **Undergraduate Research and Design Experience** — Every student works with a faculty member on a senior research and design project
- **Exceptional Teaching and Research Labs**
- **Personalized Education** — Choose one of six (6) 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 earn, on average, \$18-20 per hour at paid-internships with industry leaders such as Cisco Systems, NVIDIA, Hewlett Packard, Lawrence Livermore National Laboratory, and Sandia National Laboratories

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
- **High graduate school placement rates**

Unique Programs

- **Accelerated Graduate Program** — With Pacific's planned five-year blended bachelor's and master's degree program, you can increase your earning potential \$10,000 – \$12,000 per year
- **Four-Year Guarantee** — Finish your B.S. in Computer Science a full half year ahead of the California average of 4½ years, even including six months or two summers of paid internship, save tuition and increase earnings
- **Virtual Reality Education Research** sponsored by the National Science Foundation
- **International Co-op Program** — Work and learn in Japan or Germany
- **Supplemental Instructors and Tutoring** — Academic support to help you be successful in your program

FOR MORE INFORMATION

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Director of EIF/Outreach/Special Programs
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Concentrations:

Choose one of six (6) concentrations to tailor your education to your 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.