

Computer Science | Bachelor of Science • Minor

Computer science is one of the top degrees in-demand today as technology is present in almost every aspect of our lives. Computer scientists don't just write code – they innovate and work collaboratively to solve complex problems across various industries, the government, and public sectors. A degree in computer science prepares graduates to succeed in careers related to software development, cybersecurity, database management, artificial intelligence, networking and system administration, among others.

PROGRAM FEATURES

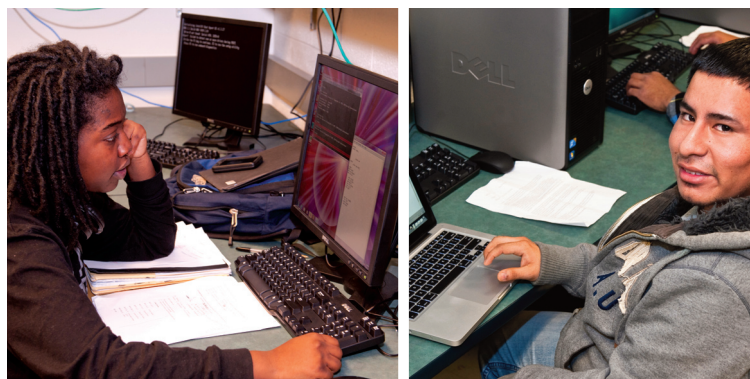
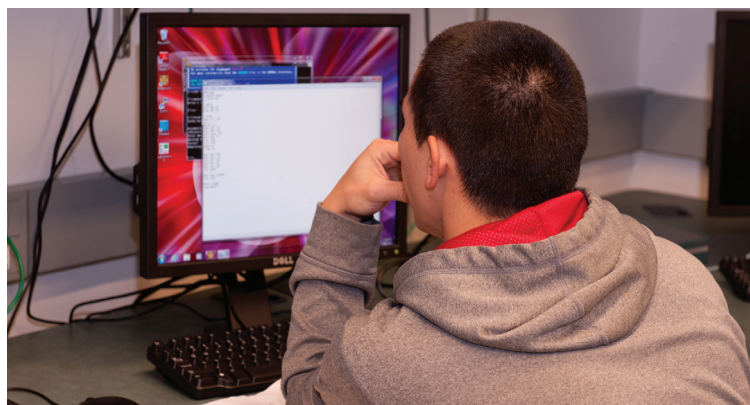
Computer Science, B.S. — Concentration: General | This concentration is designed to prepare students for positions as computer scientists and software developers within industry and government, or for graduate study in computer science and related fields. This “General” concentration balances theory with application across a range of topics from foundational concepts to emerging technologies in computer science. This program prides itself on having been nationally accredited by ABET’s Computing Accreditation Commission for more than 30 years.

B.S. – Cybersecurity/M.S. Accelerated Pathway | This accelerated, five-year program is designed to prepare individuals with a solid foundation in information assurance strategies, best practices and the skills necessary to utilize various security tools. You will monitor networks and systems for security breaches, respond to cyberattacks, and gather data and evidence to be used in prosecuting cybercrime.

Computer Science, B.S. — Concentration: Information Systems | This concentration provides students with a solid foundation in computer science while also providing a deep focus on business and management practices as it applies to computer science. Like the “General” concentration, students program in high and low level languages (Python, Java, ARM), learn networking technologies, develop full stack web applications, design and develop databases with sound software engineering principals. However, rather than theoretical science and mathematics, students instead focus on Linux system administration, business information systems, and project management concepts. Students combine their technical skills with management and information system concepts and develop strong problem solving and troubleshooting skills that can be applied to a variety of areas in business environments.

Minor — Whether your major is in arts and sciences, business, or human services, technology is, and will continue to be, a significant component in your discipline. The 18-credit Minor in Computer Science is designed with great flexibility so students, with the help of a faculty advisor from the Computer Science Department, can design a course sequence to support their major and area of interest.

For more information on program requirements, visit Catalog.SouthernCT.edu/undergraduate



COMPUTER FACILITIES

Students have access to more than 20 computer labs on campus, including two departmental facilities: a Linux lab and a Networking and Cybersecurity Laboratory that can be used for coursework and research. Students can also access our High-Performance Computing Cluster that consists of 8 nodes with 192 cores and 512GB of ram which is physically located on campus. We also have a Mobile Development Lab, with an assortment of Android and iOS devices that students can use for app development and research. Lastly, our Cloud Development Lab, which is still under construction, will be the center of our cloud application development as well as cloud infrastructure management.

CAREER OPPORTUNITIES

There is a growing demand across all sectors of industry for individuals with strong technology knowledge and understanding. The Computer Science Department prepares students with a solid foundation in computer science basics as well as evolving practices. It also prepares students for a professional career in computing and related areas, including fast-growing and well-paying professional opportunities such as software application developers, software systems developers, careers in machine learning and artificial intelligence and cybersecurity (and more). Graduates are also prepared to continue to pursue graduate studies in computer science or related disciplines to continue to advance their field with research initiatives.

FOR MORE INFORMATION

Undergraduate Admissions Office
501 Crescent Street, New Haven, CT 06515 | (203) 392-5644
Admissions@SouthernCT.edu
SouthernCT.edu/admissions/undergraduate

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