

OBJECTIVES OF SEIDENBERG PROGRAMS

Consistent with the Pace tradition, the Seidenberg School seeks to integrate theory and practice in its programs and research. The design, development, analysis, application, and management of current computing systems comprise the broad spectrum over which Seidenberg creates, interprets, criticizes, and applies knowledge, with strict attention to academic standards. Competency in foundation and methodologies allow for lifelong learning and effective response to the change inherent in the technology field.

The Seidenberg School is dedicated to serving students of all ages and backgrounds through educational programs that develop skills, enhance individual and community effectiveness, extend knowledge, and encourage critical understanding of culture. Personal, professional, and social responsibility are core considerations for every student.

The Seidenberg School offers undergraduate programs in Computer Science (BS (<https://www.pace.edu/program/computer-science-bs/?seidenberg>) and BA (<https://www.pace.edu/program/computer-science-ba/?seidenberg>)), Information Systems (BS (<https://www.pace.edu/program/information-systems-bs/?seidenberg>)), Information Technology (BS (<https://www.pace.edu/program/information-technology-bs/?seidenberg>)), and Professional Computer Studies (BS (<https://www.pace.edu/program/professional-computer-studies-bs/?seidenberg>)). Graduates of all programs are prepared for professional positions in fields such as cybersecurity, software development, robotics, artificial intelligence, mobile app development, and UX/IX. Additional specialized roles are based on individual concentrations and elective choices. In addition to its majors, the Seidenberg School offers minors in Computer Science, Information Technology, Information Assurance for the Criminal Justice System, and Game Development.

The BS program in Computer Science is a professional program accredited by the Computing Accreditation Commission (CAC) of ABET. The building blocks of its curriculum are programming languages, algorithms and data structures, computer organization and architecture, operating systems, the Internet computing, and theoretical foundations. Students perform advanced work in areas like software engineering, security, operating systems, compilers, artificial intelligence, graphics, mobile computing, web computing, and data mining.

The BS program prepares students for graduate study in computer science or professional placement. The BA program in computer science shares its computer science core with the BS program but is structured to offer more program diversity for students pursuing a minor in information technology, Web media, information assurance for the criminal justice system, business, or the arts and sciences.

The BS program in Information Systems is designed to provide students with both up-to-date technical skills and knowledge of information systems concepts that remain constant. A comprehensive and cohesive understanding of foundations and adaptations prepare students to function effectively as IS professionals in the IS environment. Programs consider the use of new and increasingly powerful software tools for applications development, and the availability of low-cost hardware, as they relate to changing organizational approaches within the field.

The Seidenberg School of Computer Science and Information Systems has been training the next generation of information technology (IT) professionals since 2010. The BS in Information Technology is characterized by flexibility, hands-on practical projects, and real-world internships, allowing students to combine personal interests with a foundation in IT in preparation for careers that are satisfying, financially rewarding, and in demand.

The BS in Professional Computer Studies recognizes the need for baccalaureate degrees in computing among computer professionals interested in either furthering their knowledge or pursuing a master's degree in a computer-related field. This program supplements the regular baccalaureate offerings in computer science, information systems, and information technology for professionals with considerable on-the-job experience.

The BS in Professional Technology Studies prepares students for careers in a rapidly changing global economy. Students can choose from two concentrations: Telecommunications is designed for those already working in the telecommunications industry, while Computer Forensics is for those interested in entering the exciting and growing field of cybersecurity. The BS program in Professional Technology Studies is an innovative, online accelerated degree program for adults with experience in the workplace and an AS or AA degree or the equivalent (64 credits).

All Seidenberg programs are supported by state-of-the-art computer facilities, including fully equipped computer labs. These labs are available in both NYC and Pleasantville.