PennState
College of Information
Sciences and Technology

UNDERGRADUATE STUDIES
Online Degrees and Certificates

Bachelor of Science in Information Sciences and Technology

The 125-credit Bachelor of Science in Information Sciences and Technology (IST) online degree, with the Integration and Application option, will give you the skills needed to succeed in the global marketplace. This degree will enhance your knowledge of core information technologies and prepare you to apply that knowledge in a real-world setting.

Integration and Application Option

Through a combination of independent study and team projects with fellow students, you will build an understanding of how information technologies are used and how they support organizational functions, project management, teamwork, problem solving, and presentation skills.

Information Systems: Design and Development Option

Expand your knowledge to create advanced technology systems, using state-of-the art tools to develop applications and software and solve complex challenges in coding. The course work is project-oriented and consists of team-programming experiences.

Bachelor of Science in Security and Risk Analysis

The 120-credit Bachelor of Science in Security and Risk Analysis (SRA) online degree emphasizes how to design secure systems, evaluate and measure risk, and ensure that proper levels of privacy are maintained for individual technology users, businesses, government, and other organizations.

Information Cyber Security Option

In this degree, you will learn how to determine the required confidentiality, integrity, and availability of an asset (i.e., a person, structure, facility, information, material, or process that has value).

SRA courses specific to information and cyber security are a crucial part of the program. These courses will provide you with an understanding of the theories, skills, and technologies associated with network security, cyber threat defense, information warfare, and critical infrastructure protection across multiple industries.

Associate in Science in Information Sciences and Technology

The 60-credit Associate Degree in IST (2IST) online degree program, designed for working professionals with little or no formal background in information technology, will prepare you for positions ranging from computer support specialist and network administrator to application programmer and information systems support specialist. This program gives you a thorough knowledge of information systems, and includes extensive practice using contemporary technologies in the creation, organization, storage, analysis, evaluation, communication, and transmission of information.

Certificate in Information Sciences and Technology

The 12-credit Certificate in Information Sciences and Technology online program is designed to prepare you for an entry-level position in information technology. In this program, you will learn about data organization, networking and telecommunications industries, and new media. You will also discover how information technology issues relate to broader business strategies. The courses in the certificate program in IST can also be applied towards the requirements for an associate degree in IST.

Certificate in Security and Risk Analysis

Our society operates through information and communication technology-based infrastructure from the Internet to cell phones to organization-specific information systems across all sectors of our economy. We use these infrastructures to communicate; to conduct business; to facilitate relationships between governments; to analyze data for trends in business, social, and international settings; and to use the outputs to make decisions in countless venues. These infrastructures hold data which yield clues to how we interact with society, government, and the economy. The 15-credit SRA certificate provides introductory curriculum that covers information systems, information assurance (both digital and physical security), and intelligence analysis.

"I would encourage new (or prospective) students to give the World Campus a try! It offers many wonderful program(s) that can further enhance students' career goals and/or provide additional classes needed to fulfill degree requirements."

— **Bill Caldwell**
  Network Service Engineer (TNS)

INDUSTRY HIGHLIGHTS

- **expected job growth of 14% through 2018**

- **new technology applications will greatly increase demand for IT personnel**

Information from U.S. Bureau of Labor Statistics

For more information about
IST Online Undergraduate Programs:

Undergraduate Studies
Penn State World Campus
worldcampus.psu.edu | U.S. Toll Free: 800-252-3592

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