Bachelor of Science in Security and Risk Analysis

The Bachelor of Science in Security and Risk Analysis (SRA) is intended to familiarize students with the general frameworks and multidisciplinary theories that define the area of security and related risk analyses. Courses in the major will engage students in the challenges and problems associated with assuring information confidentiality and integrity (e.g., social, economic, technology-related, and policy issues), as well as the strengths and weaknesses of various methods for assessing and mitigating associated risk.

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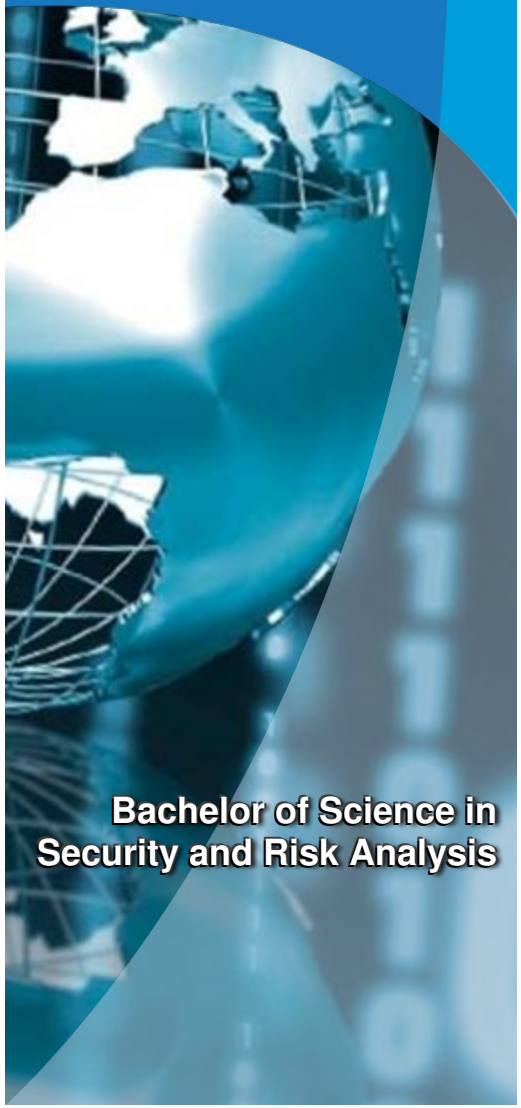

Bachelor of Science in Security and Risk Analysis

Curriculum

Information and Cyber Security Option

The Information and Cyber Security option is available to SRA majors at Penn State Harrisburg. This option includes a set of courses that provides an understanding of the theories, skills, and technologies associated with network security, cyber threat defense, information warfare, and critical infrastructure protection across multiple venues.

For the B.S. degree in Security and Risk Analysis, a minimum of 120 credits is required.

Courses

The goal of the Security and Risk Analysis (SRA) program is to train future who can think quickly and analytically, and hold to IST values of respect for technology, cultures, and the law.

The SRA program helps students protect organizational information, people, and other assets by applying principles of risk management. This includes skill sets in risk analysis, threat identification, risk control strategies, decision making, emergency response, and intelligence analysis.

The SRA program examines at how to design systems that are secure, how to measure risk, and how to ensure that proper levels of privacy are maintained for individual technology users, businesses, government, and other organizations. The program is based on an interdisciplinary curriculum that integrates areas of study in information assurance (digital and physical security), intelligence analysis, and cyber forensics. It also provides leadership and venue-specific skills needed in this area.

The Information and Cyber Security (ICS) option includes a set of courses that provide an understanding of the theories, skills, and technologies associated with network security, cyber threat defense, information warfare, and critical infrastructure protection across multiple venues.

For course descriptions and requirements, see the *Penn State University Bulletin*.

Undergraduate Admissions Requirements

Minimum high school course requirements for admission to baccalaureate (four-year) degree programs are listed below. Keep in mind that specific programs may have additional requirements or recommendations.

English

Four units, including one unit each in composition and literature, are required.

Social Studies/Art/Humanities

Three units in any combination of social studies, arts, and humanities are required.

World Language

Two units in a single world language other than English are required. However, a student may be admitted with fewer than two units in a world language other than English, but must correct this deficiency by the time s/he earns 60 credits or graduates from Penn State, whichever comes first. This deficiency may be corrected by passing one three- or four-credit college level world language course or by demonstrating proficiency equivalent to two units of high school world language study.

Either a third unit in the same language or an additional unit in a second world language other than English is recommended.

Science

Three units of science are required
Preparation in chemistry and physics is recommended but not required for our Science and Engineering/Engineering Technology programs

Math

Three units of mathematics are required (four are recommended), selected from any combination of algebra, geometry, and trigonometry
Some programs have additional mathematics requirements. Our Business, Engineering/Engineering Technology, and Science programs require one-half unit of trigonometry or higher level math within the required three units

Penn State requires proof of graduation or a GED for admission to four-year degree programs.

*In most high school curricula, one unit = one year.

Visit Undergraduate Admissions: Admissions Requirements for more information (http://goo.gl/eVGAMB)