SECURITY AND RISK ANALYSIS, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

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

The minor provides a grounding in analysis and modeling used in information search, visualization and creative problem solving. This knowledge is set in the context of legal, ethical and regulatory issues of security including analysis of privacy and security law, internal control standards, regulatory policies and basic investigative processes and principles. Such understanding overview the information technology that plays a critical role in identifying, predicting and responding to security-related events in the student’s major field.

What is Security and Risk Analysis?

Security and risk analysis is a field that explores the integrated processes conducted to provide decision-makers with the information needed to understand factors that can negatively influence operations and outcomes, and make informed judgments concerning the extent of actions needed to reduce vulnerabilities, protect resources, and optimize investments. Security and risk analysis is a field of practice with two blended concentration areas: 1) security, which seeks to identify, understand, and analyze critical local, national and international security issues, and 2) risk, which includes risk assessment, risk characterization, risk communication, risk management, and the formulation of risk policy. In practice, the issues and processes for conducting of security and risk analytics are neither separate nor sequential. To be effective, the issues of security and risk must be addressed concurrently and synergistically.

MORE INFORMATION (https://ist.psu.edu/students/undergrad/majors/sra)

You Might Like This Program If...

- You want to protect people, information, and assets from manmade and natural threats.
- You want to understand the role of data in protecting individuals, organizations and our nation.
- You are mission oriented, a good critical thinker and wish to put your problem-solving skills to work to make the world a safer place.
- You want to make informed strategic decisions that help to defend critical infrastructures that supports our daily lives.

Program Requirements

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<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Requirements for the Minor</td>
<td>21</td>
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Requirements for the Minor

At least 6 credits must be at the 400 level.

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Prescribed Courses: Require a grade of C or better</td>
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<tr>
<td>SRA 111</td>
<td>Introduction to Security and Risk Analysis</td>
<td>3</td>
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<td>SRA 211</td>
<td>Threat of Terrorism and Crime</td>
<td>3</td>
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<td>SRA 221</td>
<td>Overview of Information Security</td>
<td>3</td>
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<td>Additional Courses: Require a grade of C or better</td>
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<tr>
<td>IST 140</td>
<td>Introduction to Application Development</td>
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<td>or</td>
<td>Introduction to Programming</td>
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<td>CMPSC 101</td>
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<tr>
<td>IST 220</td>
<td>Networking and Telecommunications</td>
<td>3</td>
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<td>or</td>
<td>Decision Theory and Analysis</td>
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<tr>
<td>SRA 231</td>
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<td>Select 6 credits of the following:</td>
<td>6</td>
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<tr>
<td>IST 432</td>
<td>Legal and Regulatory Environment of Information Science and Technology</td>
<td></td>
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<td>IST 451</td>
<td>Network Security</td>
<td></td>
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<tr>
<td>IST 452</td>
<td>Legal and Regulatory Environment of Privacy and Security</td>
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<tr>
<td>IST 453</td>
<td>Legal, Regulatory, Policy Environment of Cyber Forensics</td>
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<tr>
<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
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<td>IST 456</td>
<td>Information Security Management</td>
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<td>SRA 421</td>
<td>The Intelligence Environment</td>
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<td>SRA 468</td>
<td>Visual Analytics for Security Intelligence</td>
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<td>SRA 471</td>
<td>Informatics, Risk, and the Post-Modern World</td>
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<td>SRA 480</td>
<td>Crisis Informatics</td>
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Academic Advising

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information need to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

University Park
Office of Undergraduate Academic Advising
E101 Westgate Building
University Park, PA 16802
814-865-8947
The Security and Risk Analysis program responds to the expanding need for a highly trained analytic workforce to address a wide range of security and risk domains including national/homeland security, emergency and disaster management, law and crime, as well as enterprise risk management. The SRA degree prepares students to be future leaders to address the current and emerging security and risk challenges that face individuals, organizations and our nation. IST’s Office of Career Solutions helps students navigate internship and career development through coaching, workshops, interview preparation, resume reviews, career fairs, job postings, and networking opportunities.

Careers

Security and Risk Analysis students may specialize in risk domains ranging from national security to community emergency preparedness and response. Because our courses blend technical knowledge with skills in communication and business, a Security and Risk Analysis degree allows students to pursue opportunities in intelligence, counterterrorism, computer forensics, and a number of other growing careers. SRA graduates work in a variety of fields, including defense, business, and emergency management; and many graduates go on to work for government intelligence agencies like the CIA, FBI, and NSA.

Opportunities for Graduate Studies

With a focus on problem solving, critical thinking and the presentation of analytic findings, the SRA program is a great stepping-stone to graduate education and higher learning. Many SRA graduates will go on to pursue graduate degrees in fields like law, cyber security, and data science. The foundational skills obtained in the SRA degree directly apply to graduate education.

Contact

University Park

OFFICE OF THE ASSOCIATE DEAN FOR GRADUATE AND UNDERGRADUATE STUDIES
E397F Westgate Building
University Park, PA 16802
814-863-3450
programs@ist.psu.edu

https://ist.psu.edu/directory/office/grad_undergrad_studies

Abington

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1600 Woodland Road
Abington, PA 19001
267-633-3316
jxo19@psu.edu

http://abington.psu.edu/joseph-oakes

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Monaca, PA 15061
724-773-3814
rkl5137@psu.edu

http://beaver.psu.edu/information-sciences-and-technology-minor

Berks

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610-396-6349
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https://ist.psu.edu/students/undergrad/minors/sra

**Mont Alto**
6 Bookstore Building
Mont Alto, PA 17237
717-749-6241
pjb159@psu.edu

http://montalto.psu.edu/directory/baccalaureate-information-technology-program

**New Kensington**
3550 Seventh Street Rd.
New Kensington, PA 15068
724-334-6138
hhs10@psu.edu

**Scranton**
212F Dawson
Dunmore, PA 18512
570-963-2593
dls102@psu.edu

http://worthingtonscranton.psu.edu/security-and-risk-analysis-minor

**World Campus**
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E397F Westgate Building
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https://www.worldcampus.psu.edu/degrees-and-certificates/security-risk-analysis-minor/overview