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 overviews the information technology that plays a critical role in identifying, preventing 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 analysis are neither separate nor sequential. To be effective, the issues of security and risk must be addressed concurrently and synergistically.

MORE INFORMATION ABOUT SECURITY AND RISK ANALYSIS (https://ist.psu.edu/students/undergrad/majors/sra)

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>
</tr>
</thead>
<tbody>
<tr>
<td>SRA 111</td>
<td>Introduction to Security and Risk Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SRA 211</td>
<td>Threat of Terrorism and Crime</td>
<td>3</td>
</tr>
<tr>
<td>SRA 221</td>
<td>Overview of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>IST 140</td>
<td>Introduction to Application Development</td>
<td>3</td>
</tr>
<tr>
<td>CMPS 101</td>
<td>Introduction to C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>IST 220</td>
<td>Networking and Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>SRA 231</td>
<td>Decision Theory and Analysis</td>
<td></td>
</tr>
<tr>
<td>IST 432</td>
<td>Legal and Regulatory Environment of Information Science and Technology</td>
<td></td>
</tr>
<tr>
<td>IST 451</td>
<td>Network Security</td>
<td></td>
</tr>
<tr>
<td>IST 452</td>
<td>Legal and Regulatory Environment of Privacy and Security</td>
<td></td>
</tr>
<tr>
<td>IST 453</td>
<td>Legal, Regulatory, Policy Environment of Cyber Forensics</td>
<td></td>
</tr>
<tr>
<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
<td></td>
</tr>
<tr>
<td>IST 456</td>
<td>Information Security Management</td>
<td></td>
</tr>
<tr>
<td>SRA 421</td>
<td>The Intelligence Environment</td>
<td></td>
</tr>
<tr>
<td>SRA 468</td>
<td>Visual Analytics for Security Intelligence</td>
<td></td>
</tr>
<tr>
<td>SRA 471</td>
<td>Informatics, Risk, and the Post-Modern World</td>
<td></td>
</tr>
<tr>
<td>SRA 480</td>
<td>Crisis Informatics</td>
<td></td>
</tr>
</tbody>
</table>

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 needed 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.

**Maryland Information and Technology Minor**

The Maryland Information and Technology Minor is a flexible program that prepares students to work in a variety of industries that require technical and analytical skills. The minor is designed for students who want to develop a strong foundation in information technology and complement their major with a focus on data analysis, cybersecurity, or software development.

**Pennsylvania State University**

Students can also pursue a minor in Information Sciences and Technology at Penn State through the Office of Undergraduate Studies. This minor provides students with the skills and knowledge to work in a variety of industries that require technical skills and knowledge.

**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

DIVISION OF SCIENCE AND ENGINEERING

1600 Woodland Road
Abington, PA 19001

267-633-3316

jxo19@psu.edu

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

Beaver

100 University Drive
Monaca, PA 15061

724-773-3814

rkl5137@psu.edu

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

Berks

EBC DIVISION

Gaige Building
Reading, PA  
610-396-6349  
tkc3@psu.edu  

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  
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://www.worldcampus.psu.edu/degrees-and-certificates/security-risk-analysis-minor/overview