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.

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<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 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

<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>
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Additional Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IST 140</td>
<td>Introduction to Application Development</td>
<td>3</td>
</tr>
<tr>
<td>or CMSPC 101</td>
<td>Introduction to Programming</td>
<td></td>
</tr>
<tr>
<td>IST 220</td>
<td>Networking and Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>or SRA 231</td>
<td>Decision Theory and Analysis</td>
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Select 6 credits of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IST 432</td>
<td>Legal and Regulatory Environment of Information</td>
<td></td>
</tr>
<tr>
<td>Science and Technology</td>
<td></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</td>
<td></td>
</tr>
<tr>
<td>Security</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IST 453</td>
<td>Legal, Regulatory, Policy Environment of Cyber</td>
<td></td>
</tr>
<tr>
<td>Forensics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
<td></td>
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<tr>
<td>IST 456</td>
<td>Information Security Management</td>
<td></td>
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<tr>
<td>SRA 421</td>
<td>The Intelligence Environment</td>
<td></td>
</tr>
<tr>
<td>SRA 468</td>
<td>Spatial Analysis of Risks</td>
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<tr>
<td>SRA 471</td>
<td>Informatics, Risk, and the Post-Modern World</td>
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<tr>
<td>SRA 480</td>
<td>Crisis Informatics</td>
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</tr>
</tbody>
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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 needed to plan the chosen program of study, and referrals to other specialized resources.

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

University Park

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Beaver

Michelle Kurtyka
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and emergency management; and many graduates go on to work for government intelligence agencies like the CIA, FBI, and NSA.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES WITH A MINOR IN SECURITY AND RISK ANALYSIS (https://ist.psu.edu/current/careers/development/process/path/)

**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**
COLLEGE OF INFORMATION SCIENCES AND TECHNOLOGY
E397 Westgate Building
University Park, PA 16802
814-865-8947
https://ist.psu.edu/about/contact (https://ist.psu.edu/about/contact/)

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**Berks**
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610-396-6349
tkc3@psu.edu
https://ist.psu.edu/students/undergrad/minors/sra (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**
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dls102@psu.edu

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

**World Campus**
COLLEGE OF INFORMATION SCIENCES AND TECHNOLOGY
E397 Westgate Building
University Park, PA 16802
814-865-8947

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