SECURITY AND RISK ANALYSIS, B.S. (ALTOONA)

Begin Campus: Any Penn State Campus
End Campus: Altoona

Program Description
The Bachelor of Science in Security and Risk Analysis (SRA) in the College of Information Sciences and Technology 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.

SRA program prepares students with core competence in four knowledge areas:
1. understanding the fundamentals of security, risk, analytic methods and decision support for the purpose of recognizing, articulating, and addressing analytic needs;
2. understanding the roles of data and analytics in various security domains and organizational contexts;
3. applying data analytics, methods, and tools (structured analytics; data gathering and manipulation; visual analytics; analytic judgements and presentation) to derive and communicate insights and actionable knowledge;
4. the legal, ethical, and professional issues within which analytics of security and risk are conducted.

Students may specialize in risk domains ranging from national security to community emergency preparedness and response. The SRA program positions our students to be future leaders to address the current and emerging security and risk challenges that face individuals, organizations and our nation.

SRA majors will choose one of the following options:

Intelligence Analysis and Modeling Option
Available at the following campuses: University Park, World Campus

This option focuses on developing a more thorough knowledge of the strategic and tactical levels of intelligence collection, analysis, and decision-making. This includes examining the foundations of decision analysis, economic theory, statistics, data mining, and knowledge management, as well as the security-specific contexts in which such knowledge is applied.

Information and Cyber Security Option
Available at the following campuses: Altoona, Berks, Harrisburg, University Park, World Campus

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.

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.

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.

Entrance to Major
In addition to the minimum grade point average (GPA) requirements described in the University Policies*, all Security and Risk Analysis (SRA) entrance to major course requirements must also be completed with a minimum grade of C: IST 140 (or equivalent CMPSC 101 or CMPSC 121), IST 210, SRA 111, and SRA 211. All of these courses must be completed by the end of the semester during which the admission to major process is carried out.

* In the event that the major is under enrollment control, a higher minimum cumulative grade-point average is likely to be needed at the time of confirming their major choice.

Degree Requirements
For the Bachelor of Science degree in Security and Risk Analysis, a minimum of 120 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
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<tr>
<td>Electives</td>
<td>5-13</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>77-85</td>
</tr>
</tbody>
</table>

15 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 6 credits of GQ courses; 6 credits of GS courses; and 3 credits of GWS courses.

Requirements for the Major
To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (https://senate.psu.edu/policies-and-
Security and Risk Analysis, B.S. (Altoona)

Common Requirements for the Major (All Options)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IST 110</td>
<td>Information, People and Technology</td>
<td>3</td>
</tr>
<tr>
<td>IST 210</td>
<td>Organization of Data</td>
<td>3</td>
</tr>
<tr>
<td>IST 432</td>
<td>Legal and Regulatory Environment of Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>IST 495</td>
<td>Internship</td>
<td>1</td>
</tr>
<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>SRA 231</td>
<td>Decision Theory and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Elementary Statistics</td>
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</table>

Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing or ENGL 202D</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 202D</td>
<td>Effective Writing: Business Writing</td>
<td></td>
</tr>
<tr>
<td>PSYCH 100</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 5</td>
<td>Social Problems</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AGBM 101</td>
<td>Economic Principles of Agribusiness Decision Making</td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
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<td>3-5</td>
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<tr>
<td>MATH 22</td>
<td>College Algebra With Analytic Geometry and Applications II</td>
<td></td>
</tr>
<tr>
<td>MATH 26</td>
<td>Plane Trigonometry and Applications of Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MATH 40</td>
<td>Algebra, Trigonometry, and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 41</td>
<td>Trigonometry and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>Techniques of Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
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<td>Select one of the following:</td>
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<tr>
<td>GEOG 128</td>
<td>Geography of International Affairs</td>
<td></td>
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<tr>
<td>PLSC 1</td>
<td>American Politics: Principles, Processes and Powers</td>
<td></td>
</tr>
<tr>
<td>PLSC 14</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>Additional Courses: Require a grade of C or better</td>
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<td></td>
</tr>
<tr>
<td>SRA 365 or STAT 460</td>
<td>Statistics for Security and Risk Analysis</td>
<td>3</td>
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<tr>
<td>or STAT 460</td>
<td>Intermediate Applied Statistics</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>IST 140</td>
<td>Introduction to Application Development</td>
<td></td>
</tr>
<tr>
<td>CMPSC 101</td>
<td>Introduction to Programming</td>
<td></td>
</tr>
<tr>
<td>CMPSC 121</td>
<td>Introduction to Programming Techniques</td>
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Prescribed Courses

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IST 452</td>
<td>Legal and Regulatory Environment of Privacy and Security</td>
<td>3</td>
</tr>
<tr>
<td>SRA 268</td>
<td>Visual Analytics</td>
<td>3</td>
</tr>
<tr>
<td>SRA 311W</td>
<td>Risk Analysis in a Security Context</td>
<td>3</td>
</tr>
<tr>
<td>SRA 421</td>
<td>The Intelligence Environment</td>
<td>3</td>
</tr>
<tr>
<td>SRA 433</td>
<td>Deception and Counterdeception</td>
<td>3</td>
</tr>
<tr>
<td>SRA 440W</td>
<td>Security and Risk Analysis Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>SRA 468</td>
<td>Spatial Analysis of Risks</td>
<td>3</td>
</tr>
</tbody>
</table>

Supporting Courses and Related Areas

Select 15 credits from College-approved list (at least 3 credits must be at the 400-level) |

Information and Cyber Security Option (30 credits)

Available at the following campuses: Altoona, Berks, Harrisburg, University Park, World Campus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>IST 220</td>
<td>Networking and Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>IST 451</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
<td>3</td>
</tr>
<tr>
<td>IST 456</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>SRA 311</td>
<td>Risk Analysis in a Security Context</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 440W</td>
<td>Information Sciences and Technology Integration and Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>or SRA 440W</td>
<td>Security and Risk Analysis Capstone Course</td>
<td></td>
</tr>
</tbody>
</table>

Supporting Courses and Related Areas

Select 12 credits from College-approved list (at least 3 credits must be at the 400-level)

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The Keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)

- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits
Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

- Arts (GA): 3 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 3 credits
- Social and Behavioral Sciences (GS): 3 credits
- Natural Sciences (GN): 3 credits

Integrative Studies
- Inter-Domain Courses (Inter-Domain): 6 credits

Exploration
- GN, may be completed with Inter-Domain courses: 3 credits
- GA, GH, GN, GS, Inter-Domain courses. This may include 3 credits
  of World Language course work beyond the 12th credit level or the
  requirements for the student’s degree program, whichever is higher: 6
  credits

University Degree Requirements

First Year Engagement
All students enrolled in a college or the Division of Undergraduate Studies
at University Park, and the World Campus are required to take 1 to 3
credits of the First-Year Seminar, as specified by their college First-Year
Engagement Plan.

Other Penn State colleges and campuses may require the First-Year
Seminar; colleges and campuses that do not require a First-Year Seminar
provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult
their academic adviser for these requirements.

Cultures Requirement
6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

Writing Across the Curriculum
3 credits required from the college of graduation and likely prescribed as
part of major requirements.

Total Minimum Credits
A minimum of 120 degree credits must be earned for a baccalaureate
degree. The requirements for some programs may exceed 120 credits.
Students should consult with their college or department adviser for
information on specific credit requirements.

Quality of Work
Candidates must complete the degree requirements for their major and
earn at least a 2.00 grade-point average for all courses completed within
their degree program.

Limitations on Source and Time for Credit Acquisition
The college dean or campus chancellor and program faculty may require
up to 24 credits of course work in the major to be taken at the location or
in the college or program where the degree is earned. Credit used toward
degree programs may need to be earned from a particular source or
within time constraints (see Senate Policy 83-80 (https://senate.psu.edu/
policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-
requirements/#83-80)). For more information, check the Suggested
Academic Plan for your intended program.

Program Learning Objectives

- Understand and apply the interdisciplinary, theoretical knowledge of
  the information sciences or security sciences
  - Define and explain the core concepts, principles, processes, and
    theories within the academic majors of IST and/or SRA
  - Apply the core concepts of the academic majors of IST and/or
    SRA to real-world problems

- Understand, apply and adapt various problem solving strategies,
  using appropriate technology and methods
  - Identify information problems and/or opportunities in terms of
    the human, informational and technology dimensions.
  - Analyze issues surrounding the problem and/or opportunity in
    terms of the human, informational, and technology dimensions;
    and determine the requirements appropriate to understanding the
    situation.
  - Design systems, architectures, processes, components, or
    programs to meet desired needs of the human context at varying
    levels of analysis (e.g., individual, group,
  - organization, society, and/or world).
  - Deploy up-to-date and appropriate techniques, methodologies,
    and/or tools necessary for understanding opportunities and
    constraints and/or the optimal design, implementation and
    continuance of an information based solution.
  - Evaluate the success of systems, architecture, processes,
    components, or programs intended to meet desired needs of the
    human context at varying levels of analysis (e.g.,
    - individual, group, organization, society, and/or world).
  - Communicate and work effectively (both individually and in teams)
    with a range of perspectives and audiences through a variety of
    media
    - Participate effectively on teams in order to accomplish a common
      goal.
    - Communicate effectively with a range of audiences, formally or
      informally, through writing and the spoken word.
    - Seek out, analyze, and incorporate diverse ideas and broader
      perspectives represented in the diversity of people.
    - Make respectful and inclusive choices in interacting with
      customers, peers, supervisors, and/or subordinates with a
      diversity of identity characteristics (e.g., age, ancestry, color,
      disability or handicap, national origin, race, religious creed, sex,
      sexual orientation, gender identify, or veteran status).
  - Understand professional responsibilities in terms of the ethical, legal,
    security and social aspects of any given problem and its solution
  - Demonstrate an understanding of the cognitive, social, legal,
    ethical, diversity, and security perspectives surrounding a given
    problem.
  - Assess the impact of information, computing and technology
    on individuals, groups, organizations, society, and the world for
    the purpose of making informed decisions from a sociological,
    governmental, legal, and/or security perspective.
  - Commit to the continuous acquisition of relevant knowledge for
    professional development by self teaching and/or on-going education
    and learning NOW RISK FACTORS
    - Employ information-seeking strategies and self-directed learning
      in pursuit of current knowledge.
    - Enroll in professional development and tutoring opportunities.
### 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/)

### Altoona

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drb21@psu.edu

### Berks

**Tricia Clark**  
Program Coordinator, Instructor  
Gaige 211  
Reading, PA 19610  
610-396-6349  
BKSecRiskAnalysis@psu.edu

### Harrisburg

**Jesse Middaugh, PMP**  
Program Coordinator  
Olmsted Building E335  
Middletown, PA 17057  
717-948-6153  
jlm10@psu.edu

### University Park

**Undergraduate Academic Advising Center**  
E103 Westgate Building  
University Park, PA 16802  
814-865-8947  
advising@ist.psu.edu

### World Campus

**Undergraduate Academic Advising**  
301 Outreach Building  
University Park, PA 16802  
814-863-3283  
advising@outreach.psu.edu

### Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 academic year. To access previous years' suggested academic plans, please visit the archive (https://bulletins.psu.edu/undergraduate/archive/) to view the appropriate Undergraduate Bulletin edition.

### Information and Cyber Security Option: Security and Risk Analysis, B.S. at Altoona Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

#### First Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>IST 140, CMPSC 101, or CMPSC 131</td>
<td>3</td>
<td>SRA 211*#</td>
</tr>
<tr>
<td>SRA 111 (GS)*#</td>
<td>3</td>
<td>MATH 22, 26, 40, 41, 110, or 140 (GQ)#</td>
</tr>
<tr>
<td>IST 110*</td>
<td>3</td>
<td>General Education Course (GQ)</td>
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<tr>
<td>ENGL 15 or 30H (GWS)‡</td>
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<td>General Education Course (GQ)</td>
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<td>PSU 3</td>
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#### Second Year

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<tbody>
<tr>
<td>SRA 221*</td>
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<td>SRA 231*</td>
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<tr>
<td>STAT 200 (GQ)‡</td>
<td>4</td>
<td>PSYCH 100 or SOC 5†</td>
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<tr>
<td>IST 220*†</td>
<td>3</td>
<td>IST 210*‡</td>
</tr>
<tr>
<td>GEG 128, PLSC 1, or PLSC 14†</td>
<td>3</td>
<td>US or IL</td>
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#### Third Year

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<tbody>
<tr>
<td>IST 451*</td>
<td>3</td>
<td>IST 454*</td>
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<tr>
<td>SRA 365 or STAT 460†‡</td>
<td>3</td>
<td>SRA 311W*</td>
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<td>Support of Option</td>
<td>3</td>
<td>ENGL 202C or 202D (GWS)‡</td>
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<td>General Education Course (GQ)</td>
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<td>US or IL</td>
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<tr>
<td>15</td>
<td>15</td>
<td>Support of Option</td>
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#### Fourth Year

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<tbody>
<tr>
<td>IST 432*</td>
<td>3</td>
<td>SRA 440W*</td>
</tr>
<tr>
<td>IST 456*</td>
<td>3</td>
<td>Support of Option 400 Level</td>
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<td>General Education Course (GQ)</td>
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<td>15</td>
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<td>General Education Course (GQ)</td>
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Elective 3 Elective 3

15 15
Total Credits 122

* Course requires a grade of C or better for the major
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
† Course satisfies General Education and degree requirement

1 IST/SRA/CYBER course offered both fall and spring semesters at Altoona. Otherwise, IST/SRA/CYBER courses are only offered once per academic year.
2 CMPSC 101 is not recommended.
3 STAT 460 is no longer offered at Altoona.

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

Advising Notes:

• 1 credit of IST 495 Internship is also required

Career Paths

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.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE SECURITY AND RISK ANALYSIS PROGRAM (https://www.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

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