

# SECURITY AND RISK ANALYSIS, B.S. (INFORMATION SCIENCES AND TECHNOLOGY)

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**Begin Campus:** Any Penn State Campus

**End Campus:** University Park, World Campus

## Program Learning Objectives

- **Knowledge/Application:** Understand and apply the language of security and risk analysis sciences
  - Define and explain the core concepts, principles, processes, and theories within the academic SRA Major
  - Apply the core concepts of SRA to real-world problems
- **Problem-Solving:** Understand, apply and adapt various problem solving strategies to address security and risk problems within the individual, community, organizational and national security dimensions
  - Identify security and risk problem terms of the individual, community, organizational and national security levels of analysis
  - 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
  - Identify and recognize countermeasure application strategies to address security needs to include architectures, processes, components, or programs to meet desired needs at varying levels of analysis (e.g., individual, community, organizational and/or national security)
- **Communication (Individual and Team):** 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 from an analytic perspective to include concision, analytic reasoning and active voice
  - 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)
- **Professional Responsibilities:** 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.

- **Lifelong Learning:** Commit to the continuous acquisition of relevant knowledge for professional development by self-teaching and/or on-going education and learning
  - Employ information-seeking strategies and self-directed learning in pursuit of current knowledge
  - Enroll in professional development and tutoring opportunities