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

Begin Campus: Any Penn State Campus
End Campus: Altoona

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 identity, 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.