CYBERSECURITY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN SECURE SOFTWARE DEVELOPMENT

Program Learning Outcomes

- **Problem Solving and Critical Thinking**
  - Formulate project requirements and alternative solutions appropriate to the problem in a secure manner (UWO#2)
  - Integrate design and implementation principles to develop effective software without introduction of vulnerabilities (UWO#2)
  - Perform analyze software security and the efficiency of algorithms (UWO#4)
  - Implement solutions to computing problems written in various programming languages (UWO#2)
  - Use appropriate tools and techniques for identifying malware and other vulnerabilities (UWO#2)
- **Communication and Interpersonal Skills**
  - Document all aspects of secure software precisely and clearly (UWO#1)
  - Use written, oral, and electronic communication to convey technical information effectively (UWO#1)
  - Accurately communicate security analyses, policies, and methodologies (UWO#1)
  - Work cooperatively in teams and with others (UWO#5)
- **Ethical and Professional Responsibilities**
  - Determine the effects of security policy models in a global society (UWO#8)
  - Recognize the important legal and policy issues in the development of secure systems (UWO#10)
  - Demonstrate an awareness of the codes of professional ethics in the information technology industry (UWO#8)
  - Plan for and ensure the security, privacy, and integrity of data (UWO#10)
  - Recognize the need for continuing professional development (UWO#7)

Related Links

Cybersecurity - Secure Software Development, BS Program Page (https://www.sru.edu/academics/majors-and-minors/cybersecurity/)

Professional Licensure/Certification Page (https://www.sru.edu/students/student-consumer-information/professional-licensures/)