

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

## Related Links

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

Computer Science Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/computer-science/>)

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