

# COMPUTING, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN COMPUTER SCIENCE WITH CONCENTRATION IN BIOINFORMATICS

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## Program Learning Outcomes

- **Problem Solving and Critical Thinking:** Solve Problems by creating client/server applications that are efficient, user-friendly, and portable
  - Formulate project requirements and alternative solutions appropriate to the computing problems
  - Integrate design and implementation principles to develop effective applications
  - Perform critical analyses of the impacts of decisions based on mathematics
  - Implement computing solutions that consist of system and application software written in various programming languages
  - Create efficient, user-friendly applications appropriate to the computing problems
- **Communication and Interpersonal Skills:** Use written, oral and electronic methods for effective communication
  - Document all aspects of a system precisely and clearly
  - Use written, oral, and electronic communication to convey technical information effectively
  - Devise effective user interfaces based on the application
  - Work cooperatively in teams and with others
- **Ethical and Professional Responsibilities:** Discern and articulate the impact of technologies on society
  - Determine the economic and organizational effects of information technology on global society
  - Recognize important legal issues and demonstrate appropriate social responsibilities in information technology
  - 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

Computing - Computer Science Bioinformatics, BS Program Page (<https://www.sru.edu/academics/majors-and-minors/computing-computer-science/>)

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/>)