

INFORMATION SYSTEMS TECHNOLOGY (8402)

SOFTWARE APPLICATION DEVELOPMENT

BACHELOR OF APPLIED SCIENCE DEGREE

The Bachelor of Applied Science (BAS) in Information Systems Technology degree provides students with the skills required to successfully design, plan, implement, and manage Computer and Information Systems. Students will receive instruction in computer architecture, programming, and systems analysis; networking; telecommunications; cryptography; security system auditing and design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting. The specialization in Software Application Development will provide students with the knowledge and skills needed to develop and deploy software applications.

This program uses a 2+2 model requiring the completion of an associate degree or higher with 60 transferable credits from an accredited 4-year college or university for entry into the program. The Software Application Development specialization is designed for students who earn an AA degree or an AS in Computer Programming and Analysis.

The BAS in Information Systems Technology combines in-person and online courses.

For additional information, visit our website at SJRstate.edu/bachelors or send an email to BachelorsDegrees@SJRstate.edu.

GENERAL EDUCATION COURSES*	36
(Refer to Associate in Arts general education requirements)	

LOWER-LEVEL SPECIALIZED COURSES**	45
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REQUIRED LOWER-LEVEL COURSES	21
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CGS 1060	Introduction to Computer Concepts.....	3
CGS 1540	Database Fundamentals	3
CNT 1001	Introduction to Networking	3
+ COP 1000	Introduction to Computer Programming.....	3
+ COP 2220	Programming C	3
+ COP 2360	Programming in C#	3
+ COP 2551	Introduction to Object Oriented Programming with Java.....	3

ADDITIONAL LOWER-LEVEL COURSES	24
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Choose 24 additional credits from CAP, CET, CGS, CIS, CNT, COP, CTS, DIG or any other lower-division transfer courses.

UPPER-DIVISION CORE REQUIREMENTS	21
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CAP 3104	Human-Computer Interaction	3
CIS 3080	Introduction to Cloud Computing	3
CIS 3523C	Managing IT Projects.....	3
CIS 4365	Computer Security Policies and Disaster Preparedness	3
CIS 4356	Information Security and Risk Management.....	3
+ CIS 4950	Senior Capstone Project or Internship.....	3
COP 3703	Database Design and Architecture	3

SOFTWARE APPLICATION DEVELOPMENT SPECIALIZED COURSES	18
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+ CIS 3641C	Cloud Development Essentials.....	3
+ CIS 4651C	Cloud Deployment and Operations.....	3
+ COP 3538	Data Structures for IT	3
+ COP 4655C	Mobile Application Development.....	3
+ COP 4813	Web Applications Programming.....	3
CTS 4457	Data Visualization and Communication	3

REQUIRED TOTAL CREDIT HOURS	120
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* The AS degree in Network Systems Technology contains 15 general education credits; students pursuing the BAS degree who enter with this AS degree will be required to take 21 additional general education courses.

** The AS degree in Network Systems Technology contains 45 credits of lower-division courses, which can be used to satisfy this requirement.

+ Qualifying placement score or prerequisite course may be required. See course descriptions in catalog.