

# INFORMATION SYSTEMS TECHNOLOGY (8401) CYBERSECURITY

## 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 Cybersecurity will provide students with the knowledge and skills needed to manage cybersecurity infrastructure.

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 cybersecurity specialization is designed for students who earn an AA degree or an AS in Network Systems Technology.

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

For additional information, visit our website at [SJRstate.edu/bachelors](http://SJRstate.edu/bachelors) or send an email to [BachelorsDegrees@SJRstate.edu](mailto:BachelorsDegrees@SJRstate.edu).

PROGRAMS OF STUDY  
BACHELOR'S DEGREES

<b>GENERAL EDUCATION COURSES*</b>	<b>36</b>
(Refer to Associate in Arts general education requirements)	

<b>LOWER-LEVEL SPECIALIZED COURSES**</b>	<b>45</b>
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<b>REQUIRED LOWER-LEVEL COURSES</b>	<b>21</b>
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+	CET	1600C	Network Fundamentals.....	3
+	CET	2610C	Routing Protocols and Concepts .....	3
+	CET	2615C	LAN Switching and Wireless .....	3
+	CET	2660C	Network Security Essentials.....	3
	CGS	1060	Introduction to Computer Concepts.....	3
	CGS	1540	Database Fundamentals .....	3
	CNT	1001	Introduction to Networking .....	3

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

<b>UPPER-DIVISION CORE REQUIREMENTS</b>	<b>21</b>
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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

<b>CYBERSECURITY SPECIALIZED COURSES</b>	<b>18</b>
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	CIS	3360	Principles of Information Security .....	3
+	CNT	3408	Enterprise Security .....	3
+	CNT	4514	Wireless and Mobile Computing.....	3
+	CNT	4704C	Advanced Network Traffic Analysis .....	3
+	ISM	3321	Cybersecurity Fundamentals.....	3
+	ISM	4322C	Advanced Cybersecurity.....	3

<b>REQUIRED TOTAL CREDIT HOURS</b>	<b>120</b>
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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.