

This program prepares graduates for entry-level work as business applications programmers or analysts. Graduates possess knowledge of general computer concepts and data processing fundamentals and skills in programming, accounting, and systems analysis and design. The practical applications skills in business programming enable graduates to pursue careers in business programming, systems analysis, or management. Students who plan to pursue the B.S. degree will need additional general education courses to meet university requirements.

The Computer Programming and Analysis can be completed on campus or online.

If you need additional information after seeing a counselor, please send an e-mail to BCCInfo@sjrstate.edu.

GENERAL EDUCATION COURSES:

ENC	1101	Composition I.....	3
+ ENC	1102	Composition II.....	3
+*	_____	General Education Mathematics.....	3
+*	_____	General Education Social Science.....	3
+*	_____	General Education Humanities.....	3

DEGREE SPECIFIC COURSES:

+ CAP	2023	Introduction to Game Programming.....	3
	CGS 1060	Introduction to Computer Concepts.....	3
+ COP	1000	Introduction to Computer Programming.....	3
+ CGS	2949	Computer Information Technology Capstone.....	3
+ CIS	2321	Information Systems.....	3
+ COP	2830	Web Programming in PHP, XHTML.....	3
+ COP	2822	Webpage Authoring.....	3

PROGRAMMING ELECTIVES + OPTIONS

24

Choose 1 specialization for the remaining 24 hours

OPTION A-ROBOTICS

24

+ COP	2224	Programming in C+.....	3
+ COP	2360	Programming in C#.....	3
+ COP	2220	Programming in C.....	3
+ COP	2837	Programming in Visual Basic.Net.....	3
	ETS 1603C	Fundamentals of Robotics.....	3
+ ETS	1542	Programmable Logic Controllers I.....	3
+ ETS	2604C	Robotics Applications.....	3
+ ETS	2544C	Programmable Logic Controllers II.....	3

OPTION B-SOFTWARE DEVELOPER

24

+ COP	2220	Programming in C.....	3
+ COP	2224	Programming in C+.....	3
+ COP	2360	Programming in C#.....	3
+ COP	2657	Mobile App Programming.....	3
+ COP	2800	Java Programming.....	3
+ COP	2801	Programming JavaScript.....	3
+ COP	2805	Advanced Java Programming.....	3
+ COP	2837	Programming in Visual Basic.Net.....	3

OPTION C- DATABASE

24

+ CAP	2762	Introduction to Data Mining.....	3
+ CGS	2545	Database Concepts for Business.....	3
+ COP	2700	Intro to SQL.....	3
+ COP	2701	Advanced Database Concepts.....	3
+ COP	2800	Java Programming.....	3
+ COP	2801	Programming in JavaScript.....	3
+ COP	2805	Advanced Java Programming.....	3
+ COP	2657	Introduction to Mobile App Programming.....	3

REQUIRED TOTAL CREDIT HOURS

60

*Refer to A.A. degree general education requirements.

+Prerequisite course required. See course descriptions in catalog.

Additional credit may be awarded for current industry certifications based on the Florida Department of Education Gold Standard Industry Certification articulation agreements.