

Computer Information Technology (2153) (A.S.)

RECOMMENDED ROADMAP

This Roadmap is a recommended way to complete this program of study. Course availability is subject to change. In some cases a specific course is shown, but there are other options available. To review and consider other courses, see the note at the bottom of this page. Part-time students should refer to the Recommended Course Sequence list. Consult a Student Success Advisor or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

1st Term

Course ID	Course Title	Credit Hours	Grade Earned
1* ENC1101	English Composition I	3	
2* MAC1105	College Algebra	3	
CTS1133	Software Configuration	3	
CTS1131	Hardware Configuration	3	

Term Total = 12

3rd Term

Course ID	Course Title	Credit Hours	Grade Earned
3* See Note Below	Choose 1 General Education Humanities	3	
CTS1154	Technical Support	3	
CTS1120	Fundamentals of Information Security	3	
COP2822	Web Technologies	4	

Term Total = 13

5th Term

Course ID	Course Title	Credit Hours	Grade Earned
4* See Note Below	Choose 1 Professional Elective	3	
MAN2582	Introduction to Project Management	3	
CIS2321	Information Systems	3	
CIS1942	Internship	2	

Term Total = 11

2nd Term

Course ID	Course Title	Credit Hours	Grade Earned
ENC1102	Writing About Texts	3	
COP1000	Introduction to Computer Programming	3	
CGS1100	Microcomputer Applications for Business and Economics	3	
CNT2001 OR CET2600	Computer Networks and Telecommunications OR Network Fundamentals (CISCO 1)	3	

Term Total = 12

4th Term

Course ID	Course Title	Credit Hours	Grade Earned
3* See Note Below	Choose 1 General Education Social and Behavioral Science	3	
CTS2437	Introduction to SQL Server Database	3	
COP2551 OR COP2842	Introduction to Object Oriented Programming with Java OR Internet Programming	3 OR 4	
4* See Note Below	Choose 1 Professional Elective	3	

Term Total = 12/13

Total Credit Hours = 60

Program Notes:

1* ENC1101C can be taken in place of ENC1101. Please speak with your Advisor for more information.

2* MAC1105 is the recommended course. There are other options available. See the options for the General Education Requirements at fscj.edu/asge.

3* See the options for the General Education Requirements at fscj.edu/asge.

4* See the professional elective options on the next page or in the catalog at fscj.edu/2153. Students need six credit hours of Professional Electives. These can be taken from any track.

- It is very important that you meet with the program contact below as soon as possible to discuss the prerequisites that will depend on your chosen track.

Contacts: Any Student Success Advisor at info@fscj.edu • (904) 646-2300
Program Contact: Dr. Mamdouh Babi at infotech@fscj.edu

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RECOMMENDED COURSE SEQUENCE

This list shows a recommended sequence for completing the courses in this program of study. Course availability is subject to change. Part-time students should use this list to determine which courses to take next that fit their schedule. In some cases a specific course is shown, but there are other options available. To review and consider other courses, see the note on page 1. Consult a Student Success Advisor or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

- **ENC 1101** - English Composition I (Credit Hours: 3) - **Prerequisites:** Satisfactory score on the placement test (for non-exempt students only). **See program note 1*.**
 - **MAC 1105** – College Algebra (Credit Hours: 3)- **Prerequisites:** MAT 1033 with a grade of “C” or better, or satisfactory score on the placement test. **See program note 2*.**
 - **CGS 1100** - Microcomputer Applications for Business and Economics (Credit Hours: 3) - **Prerequisites:** None.
 - **CTS 1131** - Hardware Configuration (Credit Hours: 3) - **Prerequisites:** None.
 - **ENC 1102** - Writing About Texts (Credit Hours: 3) - **Prerequisites:** ENC 1101 with a grade of “C” or better.
 - **COP 1000** - Introduction to Computer Programming (Credit Hours: 3) - **Prerequisites:** None. **Suggested course:** MAT 1033 with a grade of “C” or better or satisfactory score on placement test.
 - **CTS 1133** - Software Configuration (Credit Hours: 3) - **Prerequisites:** None.
 - **CNT 2001** - Computer Networks and Telecommunications (Credit Hours: 3) - **Prerequisites:** CGS 1060 or CGS 1100.
- OR**
- **CET 2600** – Network Fundamentals (Credit Hours: 3)- Prerequisites CTS 1131 and CTS 1133 both with a grade of “C” or higher.
- **Choose 1 Humanities. See program note 3*.**
 - **CTS 1154** - Technical Support (Credit Hours: 3) – **Prerequisites:** None.
 - **CTS 1120** – Fundamentals of Information Security (Credit Hours: 3) – **Prerequisites:** CTS 1131 and CTS 1133 both with a grade of “C” or higher.
 - **COP 2822** - Web Technologies (Credit Hours: 4) - **Prerequisite:** COP 1000.
 - **Choose 1 Social and Behavioral Science. See program note 3*.**
 - **CTS 2437** - Introduction to SQL Server Database (Credit Hours: 3) - **Prerequisite:** COP 1000.
 - **COP 2551C** - Introduction to Object Oriented Programming with Java (Credit Hours: 3) - **Prerequisite:** COP 1000 with a grade of “C” or better.
- OR**
- **COP 2842** - Internet Programming (Credit Hours: 4) - **Prerequisite:** COP 2822.
 - **Choose 1 Professional Elective** (see list below) (Credit Hours: 3). **See program note 4*.**
 - **Choose 1 Professional Elective** (see list below) (Credit Hours: 3). **See program note 4*.**
 - **MAN 2582** – Introduction to Project Management (Credit Hours: 3) – **Prerequisites:** None.
 - **CIS 2321** - Information Systems (Credit Hours: 3) **Prerequisites:** CGS 1100.
 - **CIS 1942** - Internship (Credit Hours: 2) - **Prerequisites:** None.

Professional Elective Options (6 credit hours required - can be from any track):

Software Development Track:

- COP 2220 - C Programming (Credit Hours: 3)
- COP 2334 - Object-Oriented Programming with C++ (Credit Hours: 3)
- COP 2360 - Introduction to C# (Credit Hours: 3)
- COP 2805 - Advanced Java Programming (Credit Hours: 3)
- COP 2806 - J2EE Java Development I (Credit Hours: 3)
- COP 2837 - Introduction to Programming with Visual Basic.NET (Credit Hours: 3)
- COP 2823 - ASP.NET Programming (Credit Hours: 3)
- CTS 2149 - CAPM (Certified Associate in Project Management) Exam Prep Course (Credit Hours: 3)
- CIS 2930 - Special Topics (Credit Hours: 3)
- CGS 1060 – Introduction to Information Technology (Credit Hours: 3)

Web Track:

- CGS 2555 - Introduction to the Internet (Credit Hours: 4)
- CGS 2820 - Web Site Design and Development (Credit Hours: 4)
- CGS 2821 - Advanced Web Site Design and Development (Credit Hours: 4)
- CGS 2825 - Web Site Management (Credit Hours: 3)
- CGS 1060 – Introduction to Information Technology (Credit Hours: 3)
- CIS 2930 – Special Topics (Credit Hours: 3)

Database Track:

- CGS 2542 - Database Concepts for Microcomputers (Credit Hours: 3)
- CTS 2440 - Oracle SQL and PL/SQL (Credit Hours: 4)
- CTS 2441 - Oracle Database Administration (Credit Hours: 4)
- CTS 2445 - Advanced Oracle PL/SQL Programming (Credit Hours: 3)
- CGS 1060 – Introduction to Information Technology (Credit Hours: 3)
- CIS 2930 – Special Topics (Credit Hours: 3)

Total Credit Hours = 60

To view a list of General Education Requirements, please visit our online catalog: fscj.edu/asge

CAREER OPTIONS

This degree prepares students for a respected entry-level through advanced career as a developer, software engineer, programmer-analyst, customer support specialist, database developer, or web developer. According to the Bureau of Labor Statistics, employment of database developers is projected to grow 31 percent from 2010 to 2020, much faster than the average for all occupations. Rapid growth in data collection by businesses, as well as increased need for database security measures, will contribute to the growth of this occupation.

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