

Computer Information Technology Program Roadmap

Use this roadmap to guide your progress and keep you moving toward graduation.

- ☒ **Avoid surprises** – Meet with your advisor each term to monitor your progress and address concerns early.
- ☒ **Review course requirements** – Check course prerequisites, corequisites, and conditions before registering each term to ensure you meet all requirements and stay on track for graduation.
- ☒ **Stay eligible** – Maintain your GPA and complete required courses to remain in good standing.
- ☒ **Graduate on time** – Stay on schedule to avoid delays and excess credit hours that may not be covered by financial aid.

About the Program

Credit Hours: 60 total credit hours. Total hours may vary based on individual academic plan. Prior to enrolling in classes, please meet with an advisor for specific guidance about your individual academic plan.

Minimum Grade Requirement(s)

A minimum grade of C or higher is required in:

- ☐ All Professional coursework
- ☐ All Professional Elective coursework
- ☐ All General Education coursework

Stay on Track

Meet the associate in science degree graduation requirements:

- ☐ Complete all academic requirements for this program outlined in the Florida State College at Jacksonville catalog and curriculum.
- ☐ Earn a cumulative grade point average (GPA) of 2.0 (C) at Florida State College at Jacksonville in courses applicable to the Associate in Science degree programs, excluding developmental education courses.
- ☐ Earn an all-college cumulative grade point average of 2.0 (C) on a 4.0 scale on all courses attempted. This includes Florida State College at Jacksonville college-credit semester hours and transferred credits (excluding developmental education) in lower division courses.
- ☐ Complete at least 25 percent of the total hours required for the program in residence at Florida State College at Jacksonville. Credit by examination and credit for prior learning do not count toward this residency requirement.
- ☐ Complete the required semester hours for the degree, as including a minimum of 15 semester hours in General Education.
- ☐ Demonstrate competency in civic literacy by:
 - ☐ Completing a civic literacy course – AMH 2010, AMH 2020, or POS 2041 – with a grade of C or higher.
 - ☐ Achieving of the required standard score on a state-approved assessment.
- ☐ Earn a grade of a C or higher in each course used to satisfy the general education requirements and any other area designated as requiring a grade of C or higher.
- ☐ Satisfy all financial and other obligations to the College prior to graduation.

More Information Online

Program Webpage: fscj.edu/program?pcode=2153

Program Catalog Page: catalog.fscj.edu/programs/2153

Available Electives

Minimum credit hours: 9. Students may select from any of the elective course options listed below. The specialized track options are suggested for students who want to select specific coursework to complement career goals and certifications. Students are not required to select a specific track option.

Note: Students are strongly recommended to take STA 2023 prior to enrollment in COP 2073C.

Software Development Track

- CEN 2071C – Secure Software Testing, Credit Hours: 3. Terms Offered: ~~Spring 2027, Summer 2027~~ Fall, Spring, Summer.
- CGS 1060C – Introduction to Information Technology, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CIS 2349C – Introduction to Big Data Applications, Credit Hours: 3. Terms Offered: Spring, Summer.
- CIS 2930C – Special Topics, Credit Hours: 3. Terms Offered: Fall, Summer, Summer.
- CNT 1015C – Operating Systems Foundations, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2034C – Programming in Python, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2220C – C Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2334C – Object-Oriented Programming with C++, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2360C – Introduction to C#, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2551C – Introduction to Object-Oriented Programming with Java, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
or COP 2800C – Java 1, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2805C – Advanced Java Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2806C – Developing Enterprise Applications Using Java EE, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2073C – Introduction to Statistical Programming with R, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2823C – ASP.NET Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2837C – Introduction to Programming with Visual Basic.NET, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- COP 2842C – Internet Programming, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
- CTS 1136 – A+ Certification Review, Credit Hours: 2. Terms Offered: Fall, Spring, Summer.
- CAP 2787C – Data Warehousing, Credit Hours: 3. Terms Offered: ~~TBA~~ Fall, Spring, Summer.
- CTS 2456C – Introduction to SAS Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.

Web Track

- CGS 1060C – Introduction to Information Technology, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CGS 2820C – Web Site Design and Development, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
- CGS 2821C – Advanced Web Site Design and Development, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
- CIS 2930C – Special Topics, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CTS 1136 – A+ Certification Review, Credit Hours: 2. Terms Offered: Fall, Spring, Summer.

Database Track

- CGS 1060C – Introduction to Information Technology, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CGS 2542C – Database Concepts for Microcomputers, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CIS 2930C – Special Topics, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CTS 1136 – A+ Certification Review, Credit Hours: 2. Terms Offered: Fall, Spring, Summer.
- CTS 2411C – Information Storage Management, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
or CTS 2436C – SQL Server III – Administration, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
- CTS 2438C – SQL Server II – Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CTS 2456C – Introduction to SAS Programming, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.

AI Track

- CAI 1001 – Introduction to Artificial Intelligence, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CAI 2100C – Machine Learning Foundations, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CAI 2300C – Introduction to Natural Language Processing, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- CAI 2840C – Introduction to Computer Vision, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- IDS 2703 – Interdisciplinary Approaches to AI, Credit Hours: 3. Terms Offered: TBA.

Sample Roadmap

Term 1: Fall, Spring or Summer

Course	Credits	Course Type	Terms Offered
ENC 1101 – English Composition I or ENC 1101C – English Composition I Enhanced or ENC 1102 – Writing About Texts	3-4	General Education	Fall, Spring, Summer
CTS 1133C – Software Configuration (Industry Certifications: CompTIA A+, CompTIA IT Fundamentals)	3	Professional	Fall, Spring, Summer
CTS 1131C – Hardware Configuration (Industry Certifications: CompTIA A+, CompTIA IT Fundamentals)	3	Professional	Fall, Spring, Summer
CGS 1100C – Microcomputer Applications for Business and Economics	3	Professional	Fall, Spring, Summer

Term 2: Spring, Summer or Fall

Course	Credits	Course Type	Terms Offered
MAC 1105 – College Algebra or MAC 1105C – College Algebra Enhanced or MAC 1114 – College Trigonometry or MAC 1140 – Precalculus Algebra or MAC 1147 – Precalculus Algebra and Trigonometry or MAC 2233 – Calculus for Business and Social Sciences or MAC 2311 – Calculus With Analytic Geometry I or MAC 2312 – Calculus With Analytic Geometry II or MAC 2313 – Calculus With Analytic Geometry III or MAP 2302 – Differential Equations or MGF 1130 – Mathematical Thinking or STA 2023 – Elementary Statistics <i>Note: Students who select COP 2073C as a Professional Elective course are recommended to take STA 2023 prior to enrollment into the course.</i>	3-5	General Education	Fall, Spring, Summer
AST 1002 – Introduction to Astronomy or BSC 1005 – Life in Its Biological Environment or BSC 2010C – Principles of Biology I or BSC 2085C – Human Anatomy and Physiology I or CHM 1020 – Chemistry for Liberal Arts or CHM 2045C – General Chemistry and Qualitative Analysis I or ESC 1000 – Earth and Space Science or EVR 1001 – Introduction to Environmental Science or OCE 2001 – Survey of Oceanography or PHY 1020C – Physics for Liberal Arts with Laboratory or PHY 2048C – Physics I with Calculus or PHY 2053C – General Physics I	3-4	General Education	Fall, Spring, Summer
COP 1000C – Introduction to Computer Programming	3	Professional	Fall, Spring, Summer
CNT 2001C – Computer Networks and Telecommunications (Industry Certifications: CompTIA Network +) or CET 2600C – Network Fundamentals (Cisco 1)	3	Professional	Fall, Spring, Summer

Term 3: Summer, Fall or Spring

Course	Credits	Course Type	Terms Offered
ARH 2000 – Art in the Humanities or HUM 2020 – Topics in the Humanities or LIT 2000 – Literature in the Humanities or MUL 2010 – Music in the Humanities or PHI 2010 – Philosophy in the Humanities or THE 2000 – Theatre in the Humanities	3	General Education	Fall, Spring, Summer
CTS 1154C – Technical Support	3	Professional	Fall, Spring, Summer
CTS 1120C – Fundamentals of Information Security (Industry Certifications: CompTIA Security+)	3	Professional	Fall, Spring, Summer
Professional Elective course	2-4	Professional Elective	Fall, Spring, Summer

Term 4: Fall, Spring or Summer

Course	Credits	Course Type	Terms Offered
AMH 2010 – United States History to 1877 or AMH 2020 – United States History from 1877 to the Present or POS 2041 – American Federal Government	3	General Education & Civic Literacy	Fall, Spring, Summer
CTS 2437C – SQL Server I – Fundamentals (Industry Certifications: MCSA – SQL Server 2012)	3	Professional	Fall, Spring, Summer
COP 2822C – Web Technologies	4	Professional	Fall, Spring, Summer
Professional Elective course	2-4	Professional Elective	Fall, Spring, Summer

Term 5: Spring or Fall

Course	Credits	Course Type	Terms Offered
Professional Elective course	2-4	Professional Elective	Fall, Spring, Summer
MAN 2582 – Introduction to Project Management	3	Professional	Fall, Spring, Summer
CIS 2321C – Information Systems	3	Professional	Fall, Spring, Summer
CIS 1942 – Internship	2	Professional	Fall, Spring, Summer