

The Associate in Science (A.S.) Degree in Computer Information Technology prepares students to enter or advance in the field of information technology.

The curriculum integrates technical skills and general education to train students for a career as a developer, software engineer, programmer-analyst, customer support specialist, database developer, or web developer.

<input checked="" type="checkbox"/> Task
<input type="checkbox"/> View career information at http://www.fscj.edu/careercoach
<input type="checkbox"/> Meet with your advisor each term.
<input type="checkbox"/> Fulfill the Civic Literacy requirement.
<input type="checkbox"/> Satisfy the associate in science degree graduation requirements.

Career Options

This degree prepares students for a career as a developer, software engineer, programmer-analyst, customer support specialist, database developer, or web developer.

Advising

(904) 598-5676 or net@fscj.edu.

Recommended Roadmap

This roadmap provides general guidance about recommended courses. For specific guidance about your individual academic degree plan, please see an advisor. Also refer to the College Catalog for additional information. **Full-time students will refer to the term-by-term recommendations, and part-time students will take courses in the order listed.** A minimum grade of C or higher must be achieved in all professional courses, as well as courses used to satisfy the general education and civic literacy requirements.

A list of Professional Elective Coursework options is available on page 3.

Term 1

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ENC 1101: English Composition I or ENC 1101C: English Composition I Enhanced or ENC 1102: Writing About Texts	3-4	Varies	Varies
<input type="checkbox"/>	CTS 1133C: Software Configuration	3	All	All
<input type="checkbox"/>	CTS 1131C: Hardware Configuration	3	All	All
<input type="checkbox"/>	CGS 1100C: Microcomputer Applications for Business and Economics	3	All	All

Term 2

Note: Students who wish to take COP 2073C to fulfill the professional elective coursework requirement are strongly recommended to take STA 2023 prior to enrollment into the course.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	BSC 1005: Life in Its Biological Environment or BSC 2010C: Principles of Biology I or BSC 2085C: Human Anatomy and Physiology I or AST 1002: Introduction to Astronomy 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 PHY 1020C: Physics for Liberal Arts with Laboratory or PHY 2048C: Physics I With Calculus or PHY 2053C: General Physics I	3-4	Varies	Varies
<input type="checkbox"/>	COP 1000C: Introduction to Computer Programming	3	All	All
<input type="checkbox"/>	CNT 2001C: Computer Networks and Telecommunications or CET 2600C: Network Fundamentals (Cisco 1)	3	Varies	Varies
<input type="checkbox"/>	MAC 1105: College Algebra or higher-level MAC prefix course or MAP 2302: Differential Equations or MGF 1106: Topics in College Mathematics or MGF 1107: Explorations in Mathematics or STA 2023: Elementary Statistics	3-5	Varies	Varies

Important for You to Know

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Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ARH 2000: Art in the Humanities or PHI 2010: Philosophy in the Humanities or MUL 2010: Music in the Humanities or LIT 2000: Literature in the Humanities or HUM 2020: Topics in the Humanities or THE 2000: Theatre in the Humanities	3	Varies	Varies
<input type="checkbox"/>	CTS 1154: Technical Support	3	All	All
<input type="checkbox"/>	CTS 1120C: Fundamentals of Information Security	3	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present or POS 2041: American Federal Government	3	Varies	Varies
<input type="checkbox"/>	CTS 2437C: SQL Server I – Fundamentals or CTS 2440: Oracle SQL and PL/SQL	3 or 4	All	All
<input type="checkbox"/>	COP 2822C: Web Technologies	4	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies
<input type="checkbox"/>	MAN 2582: Introduction to Project Management	3	All	All
<input type="checkbox"/>	CIS 2321: Information Systems	3	All	All
<input type="checkbox"/>	CIS 1942: Internship	2	All	Hybrid

Total Program Credit Hours

The Accounting Technology A.S. degree program requires a **minimum of 60 credit hours**. Total program hours may vary based on the student's individual degree plan. Please see an advisor for individual guidance.

Related Roadmaps

Embedded Technical Certificate(s)

Technical certificates are available within this degree program. Students may pursue the A.S. degree and earn technical certificates while completing the requirements for the degree or pursue one or more certificates to develop or upgrade their skills in a particular field. Contact an advisor to determine the career education path that is best for you.

Embedded technical certificates include:

- Web Development Specialist
- Database Development Specialist
- Computer Programming Specialist
- Information Technology Support Specialist
- Information Technology Analysis

Professional Elective Coursework Options

Required Credit Hours: 9

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	CAP 1120C: VR/AR Programming	3	Varies	Varies
<input type="checkbox"/>	CAP 2787C: Data Warehousing	3	All	All
<input type="checkbox"/>	CEN 2071C: Introduction to Software Testing	3	All	All
<input type="checkbox"/>	CET 2588: Network+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CGS 1060C: Introduction to Information Technology	3	All	All
<input type="checkbox"/>	CIS 2349C: Introduction to Big Data Using Hadoop	3	All	All
<input type="checkbox"/>	CIS 2930: Special Topics	3	All	All
<input type="checkbox"/>	CNT 1015: Operating Systems Foundations	3	All	All
<input type="checkbox"/>	COP 2034C: Programming in Python	3	All	All
<input type="checkbox"/>	COP 2073C: Introduction to Statistical Programming with R	3	All	All
<input type="checkbox"/>	COP 2220C: C Programming	3	All	All
<input type="checkbox"/>	COP 2334C: Object-Oriented Programming with C++	3	All	All
<input type="checkbox"/>	COP 2360C: Introduction to C#	3	All	All
<input type="checkbox"/>	COP 2551C: Introduction to Object-Oriented Programming with Java or COP 2800C: Java 1	3	All	All
<input type="checkbox"/>	COP 2805C: Advanced Java Programming	3	All	All
<input type="checkbox"/>	COP 2806C: Developing Enterprise Applications Using Java EE	3	All	All
<input type="checkbox"/>	COP 2823C: ASP.NET Programming	3	All	All
<input type="checkbox"/>	COP 2837C: Introduction to Programming with Visual Basic.NET	3	All	All
<input type="checkbox"/>	COP 2842C: Internet Programming	4	All	All
<input type="checkbox"/>	CTS 1136: A+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CTS 2149: CAPM (Certified Associate in Project Management) Exam Prep Course	3	Varies	Varies
<input type="checkbox"/>	CTS 2456C: Introduction to SAS Programming	3	All	All
<input type="checkbox"/>	CGS 2555: Introduction to the Internet	4	All	All
<input type="checkbox"/>	CGS 2820: Web Site Design and Development	4	All	All
<input type="checkbox"/>	CGS 2821: Advanced Web Site Design and Development	4	All	All
<input type="checkbox"/>	CGS 2542: Database Concepts for Microcomputers	3	All	All
<input type="checkbox"/>	CTS 2441: Oracle Database Administration or CTS 2436C: SQL Server III - Administration	4	All	All
<input type="checkbox"/>	CTS 2445: Advanced Oracle PL/SQL Programming or CTS 2438C: SQL Server II - Programming	3	All	All

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Recommended Roadmap

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A list of Professional Elective Coursework options is available at the end of this document.

Term 1

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ENC 1101: English Composition I or ENC 1101C: English Composition I Enhanced or ENC 1102: Writing About Texts	3-4	Varies	Varies
<input type="checkbox"/>	CTS 1133C: Software Configuration	3	All	All
<input type="checkbox"/>	CTS 1131C: Hardware Configuration	3	All	All
<input type="checkbox"/>	CGS 1100C: Microcomputer Applications for Business and Economics	3	All	All

Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	BSC 1005: Life in Its Biological Environment or BSC 2010C: Principles of Biology I or BSC 2085C: Human Anatomy and Physiology I or AST 1002: Introduction to Astronomy 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 PHY 1020C: Physics for Liberal Arts with Laboratory or PHY 2048C: Physics I With Calculus or PHY 2053C: General Physics I	3-4	Varies	Varies
<input type="checkbox"/>	COP 1000C: Introduction to Computer Programming	3	All	All
<input type="checkbox"/>	CNT 2001C: Computer Networks and Telecommunications or CET 2600C: Network Fundamentals (Cisco 1)	3	Varies	Varies
<input type="checkbox"/>	MAC 1105: College Algebra or higher-level MAC prefix course or MAP 2302: Differential Equations or MGF 1106: Topics in College Mathematics or MGF 1107: Explorations in Mathematics or STA 2023: Elementary Statistics	3-5	Varies	Varies

Important for You to Know

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Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ARH 2000: Art in the Humanities or PHI 2010: Philosophy in the Humanities or MUL 2010: Music in the Humanities or LIT 2000: Literature in the Humanities or HUM 2020: Topics in the Humanities or THE 2000: Theatre in the Humanities	3	Varies	Varies
<input type="checkbox"/>	CTS 1154: Technical Support	3	All	All
<input type="checkbox"/>	CTS 1120C: Fundamentals of Information Security	3	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present or POS 2041: American Federal Government	3	Varies	Varies
<input type="checkbox"/>	CTS 2437C: SQL Server I – Fundamentals or CTS 2440: Oracle SQL and PL/SQL	3 or 4	All	All
<input type="checkbox"/>	COP 2822C: Web Technologies	4	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies
<input type="checkbox"/>	MAN 2582: Introduction to Project Management	3	All	All
<input type="checkbox"/>	CIS 2321: Information Systems	3	All	All
<input type="checkbox"/>	CIS 1942: Internship	2	All	Hybrid

Total Program Credit Hours

The Accounting Technology A.S. degree program requires a **minimum of 60 credit hours**. Total program hours may vary based on the student's individual degree plan. Please see an advisor for individual guidance.

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Embedded Technical Certificate(s)

Technical certificates are available within this degree program. Students may pursue the A.S. degree and earn technical certificates while completing the requirements for the degree or pursue one or more certificates to develop or upgrade their skills in a particular field. Contact an advisor to determine the career education path that is best for you.

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- Computer Programming Specialist
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- Information Technology Analysis

Professional Elective Coursework Options: Web Track

Required Credit Hours: 9

Students who are pursuing the Web Track should select from the following Professional Elective coursework options.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	CET 2588: Network+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CGS 1060C: Introduction to Information Technology	3	All	All
<input type="checkbox"/>	CGS 2555: Introduction to the Internet	4	All	All
<input type="checkbox"/>	CGS 2820: Web Site Design and Development	4	All	All
<input type="checkbox"/>	CGS 2821: Advanced Web Site Design and Development	4	All	All
<input type="checkbox"/>	CIS 2930: Special Topics	3	Varies	Varies
<input type="checkbox"/>	CTS 1136: A+ Certification Review	2	Varies	Varies

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<input type="checkbox"/>	CTS 1133C: Software Configuration	3	All	All
<input type="checkbox"/>	CTS 1131C: Hardware Configuration	3	All	All
<input type="checkbox"/>	CGS 1100C: Microcomputer Applications for Business and Economics	3	All	All

Term 2

Note: Students who wish to take COP 2073C to fulfill the professional elective coursework requirement are strongly recommended to take STA 2023 prior to enrollment into the course.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	BSC 1005: Life in Its Biological Environment or BSC 2010C: Principles of Biology I or BSC 2085C: Human Anatomy and Physiology I or AST 1002: Introduction to Astronomy 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 PHY 1020C: Physics for Liberal Arts with Laboratory or PHY 2048C: Physics I With Calculus or PHY 2053C: General Physics I	3-4	Varies	Varies
<input type="checkbox"/>	COP 1000C: Introduction to Computer Programming	3	All	All
<input type="checkbox"/>	CNT 2001C: Computer Networks and Telecommunications or CET 2600C: Network Fundamentals (Cisco 1)	3	Varies	Varies
<input type="checkbox"/>	MAC 1105: College Algebra or higher-level MAC prefix course or MAP 2302: Differential Equations or MGF 1106: Topics in College Mathematics or MGF 1107: Explorations in Mathematics or STA 2023: Elementary Statistics	3-5	Varies	Varies

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Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ARH 2000: Art in the Humanities or PHI 2010: Philosophy in the Humanities or MUL 2010: Music in the Humanities or LIT 2000: Literature in the Humanities or HUM 2020: Topics in the Humanities or THE 2000: Theatre in the Humanities	3	Varies	Varies
<input type="checkbox"/>	CTS 1154: Technical Support	3	All	All
<input type="checkbox"/>	CTS 1120C: Fundamentals of Information Security	3	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present or POS 2041: American Federal Government	3	Varies	Varies
<input type="checkbox"/>	CTS 2437C: SQL Server I – Fundamentals or CTS 2440: Oracle SQL and PL/SQL	3 or 4	All	All
<input type="checkbox"/>	COP 2822C: Web Technologies	4	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

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<input type="checkbox"/>	MAN 2582: Introduction to Project Management	3	All	All
<input type="checkbox"/>	CIS 2321: Information Systems	3	All	All
<input type="checkbox"/>	CIS 1942: Internship	2	All	Hybrid

Total Program Credit Hours

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Professional Elective Coursework Options: Software Development Track

Required Credit Hours: 9

Students who are pursuing the Software Development Track should select from the following Professional Elective coursework options.

Note: Students who wish to take COP 2073C to fulfill professional elective coursework requirement are strongly recommended to take STA 2023 prior to enrollment into the course. Students must complete CNT 1015 prior to enrollment in CIS 2349C.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	CAP 1120C: VR/AR Programming	3	Varies	Varies
<input type="checkbox"/>	CAP 2787C: Data Warehousing	3	All	All
<input type="checkbox"/>	CEN 2071C: Introduction to Software Testing	3	All	All
<input type="checkbox"/>	CET 2588: Network+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CGS 1060C: Introduction to Information Technology	3	All	All
<input type="checkbox"/>	CIS 2349C: Introduction to Big Data Using Hadoop	3	All	All
<input type="checkbox"/>	CIS 2930: Special Topics	3	Varies	Varies
<input type="checkbox"/>	CNT 1015: Operating Systems Foundations	3	All	All
<input type="checkbox"/>	COP 2034C: Programming in Python	3	All	All
<input type="checkbox"/>	COP 2073C: Introduction to Statistical Programming with R	3	All	All
<input type="checkbox"/>	COP 2220C: C Programming	3	All	All
<input type="checkbox"/>	COP 2334C: Object-Oriented Programming with C++	3	All	All
<input type="checkbox"/>	COP 2360C: Introduction to C#	3	All	All
<input type="checkbox"/>	COP 2551C: Introduction to Object-Oriented Programming with Java or COP 2800C: Java 1		All	All
<input type="checkbox"/>	COP 2805C: Advanced Java Programming	3	All	All
<input type="checkbox"/>	COP 2806C: Developing Enterprise Applications Using Java EE	3	All	All
<input type="checkbox"/>	COP 2823C: ASP.NET Programming	3	All	All
<input type="checkbox"/>	COP 2837C: Introduction to Programming with Visual Basic.NET	3	All	All
<input type="checkbox"/>	COP 2842C: Internet Programming	4	All	All
<input type="checkbox"/>	CTS 1136: A+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CTS 2149: CAPM (Certified Associate in Project Management) Exam Prep Course	3	Varies	Varies
<input type="checkbox"/>	CTS 2456C: Introduction to SAS Programming	3	All	All
<input type="checkbox"/>	CTS 2910C: Data Analytics	4	All	All

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<input type="checkbox"/>	CTS 1133C: Software Configuration	3	All	All
<input type="checkbox"/>	CTS 1131C: Hardware Configuration	3	All	All
<input type="checkbox"/>	CGS 1100C: Microcomputer Applications for Business and Economics	3	All	All

Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
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<input type="checkbox"/>	COP 1000C: Introduction to Computer Programming	3	All	All
<input type="checkbox"/>	CNT 2001C: Computer Networks and Telecommunications or CET 2600C: Network Fundamentals (Cisco 1)	3	Varies	Varies
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<input type="checkbox"/>	CTS 1154: Technical Support	3	All	All
<input type="checkbox"/>	CTS 1120C: Fundamentals of Information Security	3	All	All
<input type="checkbox"/>	Professional Elective	2-4	Varies	Varies

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present or POS 2041: American Federal Government	3	Varies	Varies
<input type="checkbox"/>	CTS 2437C: SQL Server I – Fundamentals or CTS 2440: Oracle SQL and PL/SQL	3 or 4	All	All
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Professional Elective Coursework Options: Database Track

Required Credit Hours: 9

Students who are pursuing the Database Track should select from the following Professional Elective coursework options.

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	CGS 1060C: Introduction to Information Technology	3	All	All
<input type="checkbox"/>	CGS 2542: Database Concepts for Microcomputers	3	All	All
<input type="checkbox"/>	CIS 2930: Special Topics	3	Varies	Varies
<input type="checkbox"/>	CTS 1136: A+ Certification Review	2	Varies	Varies
<input type="checkbox"/>	CTS 2441: Oracle Database Administration or CTS 2436C: SQL Server III - Administration	4	All	All
<input type="checkbox"/>	CTS 2445: Advanced Oracle PL/SQL Programming or CTS 2438C: SQL Server II - Programming	3	All	All