

The Associate in Science (A.S.) Degree in Data Science Technology program prepares students to enter or advance in the field of data science.

The program curriculum includes activities that focus on the acquisition of data in both structured and unstructured formats, cleaning, modeling and analysis of acquired data, and the extraction of knowledge or insights using statistical processes and systems. Students also study the identification of data sources, retrieval issues and methodologies, data security and the use of informational tools.

<input checked="" type="checkbox"/> Task
<input type="checkbox"/> Explore career resources at fscj.edu/student-services/career-development .
<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

IT professionals are among the most sought-after employees in a range of industries today. From retail to manufacturing and healthcare to transportation, almost every industry relies on data science for all aspects of their operations.

Advising

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

Sample Roadmap

This roadmap provides general guidance about required courses. For specific guidance about your individual academic degree plan, please see an advisor. Also refer to the College Catalog and class schedules 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.

Term 1

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

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	ENC 1101: English Composition I or ENC 1101C: English Composition I Enhanced	3 or 4	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
<input type="checkbox"/>	CGS 1060C: Introduction to Information Technology	3	All
<input type="checkbox"/>	CNT 1015: Operating Systems Foundations	3	All

Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<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
<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
<input type="checkbox"/>	CNT 2001C: Computer Networks and Telecommunications	3	All
<input type="checkbox"/>	COP 1000C: Introduction to Computer Programming	3	All

Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	CGS 2512C: Spreadsheet Concepts and Practices	3	All
<input type="checkbox"/>	COP 2800C: Java 1	3	Fall, Spring
<input type="checkbox"/>	CTS 1120C: Fundamentals of Information Security	3	All
<input type="checkbox"/>	CTS 2437C: SQL Server I - Fundamentals	3	All

Important for You to Know

This academic roadmap does not include **developmental education courses** in reading, writing, and/or mathematics that you may be required to take. Students who place into developmental education courses are required to complete designated developmental education courses with a grade of C or higher regardless of program of study. In addition, it does not include **MAT 1033: Intermediate Algebra**, which, for many students, is a prerequisite course for MAC 1105.

Related Roadmaps

Embedded Technical Certificate(s)

Technical certificates are available within this degree program. Contact an advisor to determine the career education path that is best for you. Embedded technical certificates include:

- Data Science Technician
- FinTech Technician

Program Learning Outcomes

- Students will describe the data life cycle.
- Students will describe basic statistical concepts and apply statistical methods used in data science problems.
- Students will describe selection, collection, preprocessing, and transformation processes used with data sources.
- Students will describe techniques and use common processes and tools to create visualizations from acquired data.

Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	AMH 2020: United States History From 1877 to the Present or POS 2041: American Federal Government	3	Varies
<input type="checkbox"/>	CAP 2787C: Data Warehousing	3	Summer
<input type="checkbox"/>	COP 2034C: Programming in Python	3	All
<input type="checkbox"/>	COP 2822C: Web Technologies	4	All

Term 5

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

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	CAP 2741C: Data Visualization	2	Fall
<input type="checkbox"/>	CIS 2349C: Introduction to Big Data Using Hadoop	3	Fall
<input type="checkbox"/>	COP 2073C: Introduction to Statistical Programming with R	3	Fall
<input type="checkbox"/>	CTS 2456C: Introduction to SAS Programming	3	Fall

Total Program Credit Hours

The **Data Science 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. This program **is eligible** for financial aid.