

The Technical Certificate (T.C.) in Mechatronics focuses on broad, transferable skills and stresses understanding and demonstration of the elements of engineering technology.

The program focuses on maintenance techniques, computer aided drafting/design skills, technical communications, maintenance and operation of various industrial components, quality control and testing, material handling protocols, and proper usage of tools and instrumentation.

<input checked="" type="checkbox"/> Task
<input type="checkbox"/> View career information at <a href="http://www.fscj.edu/careercoach">http://www.fscj.edu/careercoach</a>
<input type="checkbox"/> Meet with your advisor each term.
<input type="checkbox"/> Satisfy the technical certificate graduation requirements.

### Articulation

This certificate articulates directly into the Engineering Technology (Advanced Manufacturing (2320) (A.S.) degree. Students may pursue one or more certificates to develop or upgrade their skills in a particular field or pursue the A.S. degree and earn technical certificates while completing the requirements for the degree. Contact an advisor to determine the career education path that is best for you.

### Advising

(904) 598-5618 or [amt@fscj.edu](mailto:amt@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. A minimum grade of C or higher must be achieved in all professional courses.

#### Term 1

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ETS 1352: Introduction to Manufacturing Processes	3	Fall, Spring	All
<input type="checkbox"/>	EET 1084C: Survey of Electronics	3	Fall, Spring	All

#### Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ETS 1511C: Motors and Controls	3	Spring	Hybrid
<input type="checkbox"/>	ETS 1700C: Hydraulics and Pneumatics	3	Spring	Hybrid

#### Term 3

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ETS 1603: Robotics - Mechanics and Controls	3	Fall, Summer	Hybrid
<input type="checkbox"/>	ETS 1542: Introduction to Programmable Logic Controllers	3	All	On-Campus, Online

#### Term 4

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	BCN 2732: OSHA Safety	3	All	On-Campus
<input type="checkbox"/>	ETS 2527: Electromechanical Components and Mechanism	3	Spring	Hybrid

#### Term 5

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered	Available Modalities
<input type="checkbox"/>	ETD 1100: Engineering Drawing	3	Spring	Hybrid
<input type="checkbox"/>	ETM 2315C: Mechanical Devices and Systems	3	Fall	Hybrid

### Total Program Credit Hours

The Mechatronics T.C. program requires a **minimum of 30 credit hours**. Total program hours may vary based on the student's individual degree plan. Please see an advisor for individual guidance.

### 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.