

The Technical Certificate (T.C.) in Pneumatics, Hydraulics and Motors for Manufacturing focuses on motor and controls, hydraulics, mechanical systems, and drive and pumps.

<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"/> Satisfy the technical certificate graduation requirements.

Articulation

This certificate articulates directly into the Engineering Technology (Advanced Manufacturing (2320) (A.S.) degree. Contact an advisor to determine the career education path that is best for you.

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.

Advising

(904) 598-5618 or amt@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. **These courses can be taken in any order.** 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
<input type="checkbox"/>	ETM 2315C: Mechanical Devices and Systems	3	Fall
<input type="checkbox"/>	ETM 2317C: Drive and Pump Systems	3	Fall

Term 2

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

Total Program Credit Hours

The **Pneumatics, Hydraulics and Motors for Manufacturing** T.C. program requires a **minimum of 12 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 not eligible** for financial aid.

Program Learning Outcomes

Upon completing this program, students will be able to demonstrate proficiency in the following program learning outcomes:

- Students will learn the mechanics, hydraulics, pneumatics, and controls
- Students will get information about devices
- Students will learn drive and pump systems