

The Technical Certificate (T.C.) in Aviation Powerplant Mechanics prepares students for entry into the aviation maintenance industry.

The program produces qualified Powerplant Technicians ready to perform aviation maintenance through practical training and education on Federal Aviation Administration standard methods, techniques, and skills via realistic experience with aircraft, avionics, engines, and their subsystems.

<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.

Certification/Licensing

Instruction consists of academic as well as laboratory training designed to prepare you for the FAA written, oral and practical certificate examinations for the Airframe Mechanic rating.

Note: If you are considering employment in a state other than Florida, please visit <https://www.fscj.edu/academics/license-disclose> to determine if this program will meet the selected state's requirements to sit for licensure or certification testing.

Program Accreditation

The AMT Professional courses comply with Federal Aviation Regulation (FAR) Part 147 and are FAA certified.

Application Procedure

This is a Selective Access program. Students must follow the application procedure outlined in the current College Catalog.

Articulation

Upon successful completion of the program students may receive articulated College credit toward the Aviation Maintenance Management (2150) (A.S.) degree. Contact an advisor to determine the career education path that is best for you.

Advising

(904) 317-3824 or patricia.h.conway@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.

Term 1

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	AMT 1771C: Aviation Maintenance Technology Powerplant I	6	All
<input type="checkbox"/>	AMT 1772C: Aviation Maintenance Technology Powerplant II	6	All

Term 2

<input checked="" type="checkbox"/>	Course: Course Title	Credit Hours	Terms Offered
<input type="checkbox"/>	AMT 1773C: Aviation Maintenance Technology Powerplant III	6	All
<input type="checkbox"/>	AMT 1774C: Aviation Maintenance Technology Powerplant IV	4	All

Total Program Credit Hours

The **Aviation Powerplant Mechanics** T.C. program requires a **minimum of 24 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.

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.

Program Learning Outcomes

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

- Inspect and repair a magneto, carburetor, starter, alternator, and propeller
- Perform calculations to determine horsepower, select engine lubricants
- Remove overhaul and install a reciprocating and turbine engine
- Perform non-destructive methods of inspection
- Understand theory of operation and troubleshoot turbine engine systems
- Use manuals to inspect and repair turbine engine, and perform conformity inspection
- Complete 100-hour engine inspection and write engine logbook entries