

About the Program

The Associate in Science (A.S.) Degree in Engineering Technology (Advanced Manufacturing) prepares students for distinctive success in the installation, repair, and maintenance of industrial/ manufacturing environments.

This program requires a **minimum of 60 credit hours**. Total program hours may vary based on the student's individual academic degree plan. This program **is eligible** for financial aid.

Program Requirements

Students must fulfill all requirements outlined in the college catalog.

Important for You to Know

This academic roadmap does not include developmental education courses in reading, writing, and/or mathematics or other prerequisite courses that you may be required to take. In addition, it does not include program graduation requirements.

Alternative starting or completion points include: Advanced Manufacturing (Automation) (T.C.), CNC Machinist/Fabricator (T.C.), Engineering Technology Support Specialist (T.C.), Pneumatics, Hydraulics and Motors for Manufacturing (T.C.), and Mechatronics (T.C.).

Additional Information

- ⇒ **Program Information**, including advisor contact details: <https://www.fscj.edu/academics/programs/as/2320>.
- ⇒ **Associate in Science Degree Information**, including graduation requirements: <https://catalog.fscj.edu/academics/degree-certificate-programs/associate-in-science-degrees>.
- ⇒ ***Program Requirements:** <https://catalog.fscj.edu/programs/2320>.
- ⇒ **Math Pathways Information:** <https://catalog.fscj.edu/academics/math-pathways>.

Sample Roadmap

This sample roadmap shows one possible pathway to program completion and may not be appropriate for all students.

Prior to enrolling in classes, please **meet with an advisor** for specific guidance about your individual academic degree plan. Some courses are offered only once per year; advising is critical for course progression.

See the **program requirements for general education and professional elective course options.*

This program includes an **Algebra Through Calculus math pathway**. This pathway is intended for students whose academic program requires a foundation of algebra, followed by a sequence of courses that may lead to calculus.

Term 1

Course	Credits
ENC 1101 - English Composition I or ENC 1101C - English Composition I Enhanced	3-4
General Education Mathematics course	3-5
ETS 1352C - Introduction to Manufacturing Processes	3
EET 1084C - Survey of Electronics	3

Term 2

Course	Credits
General Education Natural Sciences Core course	3-4
ETS 1520C - Basics of Instrumentation	3
ETS 1511C - Motors and Controls	3
ETS 1700C - Hydraulics and Pneumatics	3

Term 3

Course	Credits
General Education Humanities Core course	3
ETS 1603C - Robotics - Mechanics and Controls	3
ETI 2622C - Introduction to Lean Manufacturing	3

Term 4

Course	Credits
AMH 2010 - United States History to 1877 or AMH 2020 - United States History from 1877 to the Present or POS 2041 - American Federal Government	3
Professional Elective course	3
Professional Elective course	3
Professional Elective course	3
ETS 1632C - Computer Integrated Manufacturing	3

Term 5

Course	Credits
Professional Elective course	3
Professional Elective course	3
ETS 1542C - Introduction to Programmable Logic Controllers	3
BCN 2732 - OSHA Safety	3