

# Semiconductor Manufacturing Technology

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## Associate in Applied Science Degree

This program prepares students for careers in the semiconductor manufacturing industry. Typical technical titles include manufacturing and process technician, maintenance and installation/facility support technician and quality control and metrology technician. Individuals working in this industry require a solid foundation in mathematics and physical sciences as well as technical knowledge and good problem solving and teamwork skills.

**Total Credit Hours: 63 - 63.5**

### First Semester

CF100 College Foundations Seminar	1.0
EN101 English 1: Composition	3.0
ET151 Circuits 1	4.0
ET153 Intro Electronics	2.0
ET154 Computer Programming	2.0
MA121 Fund Coll Math 1	4.0
Physical Education Elective	0.5

### Second Semester

EN102 English 2:Idea&Values Lit	3.0
ET152 Circuits 2	4.0
ET161 Linear Electronics	3.0
ET181 Digital Electronics 1	3.0
MA122 Fund Coll Math 2	4.0
Physical Education Elective	0.5

### Third Semester

CH141 General Chemistry 1	4.0
ET290 Fund of High Vacuum Tech	3.0
MT204 Automatic Controls	3.0
MT231 Lean Six Sigma	4.0
Physical Education Elective	0.5

### Fourth Semester

ET285 Motors & Controls	4.0
ET289 Into to Semiconductor Man	4.0
GE Social Science Elective (a)	3.0
Program Elective (b)	3 - 3.5
Physical Education Elective	0.5

### Preparation for this program should include:

Two high school mathematics courses, or the equivalent

One laboratory science (physics and chemistry are recommended)

(a) GE Social Science courses: AN101 Biological Anthropology, BM101 Survey of Economics, GE101 Essentials of World Geography, PS101 American National Government, PY101 Introduction to General Psychology, or SO101 Introduction to Sociology.

(b) Program Electives: ET141 Programmable Logic Controllers, ET291 Fundamentals of Highly Automated Manufacturing Systems.