

ENGINEERING: DRAFTING TECHNOLOGY CERTIFICATE

The non-transfer Certificate in Engineering: Drafting Technology designed to launch students directly into rewarding careers as professional drafters. With a strong emphasis on hands-on learning and cutting-edge tools, this program equips students with the technical expertise and creative problem-solving skills demanded by industries such as architecture, civil engineering, manufacturing, and more.

Students will master industry-standard CAD software and drafting techniques, learning to produce precise, professional-level technical drawings that bring innovative ideas to life. Through real-world projects, internships, and close collaboration with industry professionals, students gain valuable, practical experience that sets them apart in the job market.

Our curriculum is crafted to ensure graduates are workforce-ready, capable of stepping into entry-level drafting positions with confidence. Whether you're passionate about designing the future of cities, infrastructure, or products, this program provides the skills, knowledge, and experience to make an immediate impact. Begin your journey into the world of drafting and design, and turn your vision into a career!

CT.ENGR

Program Map Design Your Future!

Begin by exploring MSJC program maps to find career or transfer (<https://msjc.emsicc.com/?radius=®ion=All%20Regions>) opportunities. Program maps show the recommended course sequence that leads to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

Fall Semester 1		Units
ENGR-154	Computer Aided Drafting I	3
PHOT-125	Digital Photography Production I	3
ENGR-180	Introduction to Engineering	2
Units		8
Spring Semester 1		
ENGR-155	Computer Aided Drafting II	3
ENGR-756	SolidWorks I	3
ENGR-121	Introduction to Engineering Design	3
Units		9
Total Units		17

Requirements

Course	Title	Credits
Required Core Courses		
ENGR-121	Introduction to Engineering Design	3
ENGR-154	Computer Aided Drafting I	3

ENGR-155	Computer Aided Drafting II	3
ENGR-180	Introduction to Engineering	2
Elective Courses		
Select 6 units from the following:		6
ENGR-122	Electronics for Engineering Technologists (formerly ENGR-522)	
ENGR-124	Civil Engineering and Architecture (formerly ENGR-524)	
ENGR-164	Plane Surveying I	
ENGR-181	Statics	
ENGR-182	Strength of Materials (formerly Strength and Materials)	
ENGR-183	Programming with MATLAB for Engineers and Scientists	
ENGR-184	Engineering Circuit Analysis	
ENGR-185	Engineering Dynamics	
ENGR-299	Special Projects: Engineering Technology	
ENGR-523	Computer Integrated Manufacturing (formerly ENGR-123)	
ENGR-549	Work Experience Education: Engineering Technology	
ENGR-565	Plane Surveying II (formerly ENGR-165)	
ENGR-566	Legal Aspects of Surveying (formerly ENGR-166)	
ENGR-567	Global Positioning Systems for Surveying (formerly ENGR-167 Global Positioning Systems)	
ENGR-756	SolidWorks I	
GEOG-115	Introduction to Geographic Information Science	
PHOT-125	Digital Photography Production I	
Total Units		17

Career Exploration

Discover information about careers that interest you!

1. Take a **Career Quiz** (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available **in-demand jobs** (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.
3. Find the **MSJC Program** (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.

Gainful Employment Disclosures: Engineering: Drafting Technology

Gainful Employment Disclosures – 2025

Program Name ENGINEERING: DRAFTING TECHNOLOGY

This program is designed to be completed in 8 months.

This program will cost \$782 if completed within normal time. There may be additional costs for living expenses. These costs were accurate at the time of posting, but may have changed.

Of the students who completed this program within normal time, the typical graduate leaves with \$0 of debt.

The following States do not have licensure requirements for this profession: California

For more information about graduation rates, loan repayment rates, and post-enrollment earnings about this institution and other postsecondary institutions please click here: <https://collegescorecard.ed.gov/>

NOTE:

Cost per unit \$46

Nonresident Fees- Tuition: \$313

Capital Outlay: \$58

Parking Permits cost \$90 a year or \$45 a semester

RTA Go Pass cost \$16 a year or \$8 a semester

SGA discount sticker (optional) - \$14 a year or \$7 a semester

Student representation fee (optional) - \$4 a year or \$2 a semester

Help a Student Fund (optional) - \$4 a year or \$2 a semester

Student Health Center Fee - \$54 a year or \$27 a semester

*For summer session fees and non-CA resident tuition, please see:

<https://www.msjc.edu/enroll/what-fees-do-i-have-to-pay.html>