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### Helpful Hints

- Student needs either two CAD electives or one CAD elective with one elective from CSC, ITC or NST.
- The program must be started in the fall semester. It is only offered on the Bedford campus during the day.
- Students who intend to finish within a year should enroll in CAD 110 – Engineering Graphics I, CAD 169 – Solid Modeling I and CAP 101 – Microcomputer Applications in the first semester. Students must work with a faculty advisor to determine the courses to take during the spring semester.

### Certificate Programs

Certificate programs can serve as the basis for further higher education or professional studies. Certificate programs require students to complete specified coursework, mainly related to particular fields of employment.

While many students enroll in a certificate program in preparation for direct entry into employment, they often return to college, part time or full time, and apply the credits previously earned to an associate degree program.

#### Career and Transfer Outlook

Graduates of the program work in various industries with departments in mechanical design or manufacturing. Some of the positions that MCC graduates have held are mechanical designer and mechanical engineering technician. Graduates of the certificate program may apply most or all of their credits toward an associate degree in Engineering Technology – CAD.

To learn more, call us at 1-800-818-3434 or visit www.middlesex.mass.edu



#### Pathways to Achievement, Completion, Career & Transfer

## CAREER MAP



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## Engineering Technology and Transfer

The **Engineering Technology and Transfer** programs at Middlesex Community College offer a clear pathway so you can meet your educational and career goals. There are multiple entrance, exit and continuation points along this pathway. Each program offers courses that prepare you for the next level of study, as well as for employment opportunities. Your job options grow with completion of each extra step, as does earning potential! **Program Outcome skill competencies** can be found on the individual program pages of the MCC Academic Catalog at **www.middlesex.mass.edu/catalog**.

#### ENGINEERING TECHNOLOGY: PRECISION MACHINING CERTIFICATE

**Competencies:** Prepares students for employment in a variety of entry-level advanced manufacturing machining positions.

Learn more about the competencies at www.middlesex.mass.edu/catalog

#### **JOB OPTIONS**

CNC Machine Programmer

CNC Tool Operator

Quality Assurance/Control Inspector

Manufacturing Production Technician

#### **SALARY RANGE**

**\$38,565-\$48,204** (\$18.54 - \$23.18 / hr)

#### ENGINEERING TECHNOLOGY: COMPUTER AIDED DESIGN CERTIFICATE

**Competencies:** Prepares students for employment in a variety of architectural, mechanical and CAD drafting and designer positions.

Learn more about the competencies at www.middlesex.mass.edu/catalog

#### **JOB OPTIONS**

Architectural Drafter
Civil CAD Drafter
Millwork Drafter
Staff Structural Detailer
Electrical Drafter

#### SALARY RANGE

\$30,540-\$38,180 (\$14.68 - \$18.36 / hr)



#### ENGINEERING TECHNOLOGY: COMPUTER AIDED DESIGN ASSOCIATE DEGREE

**Competencies:** Prepares students for careers with emphasis on Mechanical Computer Aided Design (CAD) Drafting and Design, basic Electro/Mechanical and Printed Circuit Board layout and entry level Architectural CAD.

Learn more about the competencies at www.middlesex.mass.edu/catalog

#### **JOB OPTIONS**

Architectural and Civil Drafter Electrical and Electronics Drafter Mechanical Drafting Technician

#### **SALARY RANGE**

**\$37,811-\$43,651** (\$18.18 - \$21.00 / hr)





#### Pathways to Achievement, Completion, Career & Transfer

# CAREER MAP



E1

#### ENGINEERING SCIENCE TRANSFER: MECHANICAL ENGINEERING A.S.

**Competencies:** Prepares students for transfer to an engineering bachelor degree program and employment in a variety of technical positions.

Learn more about the competencies at www.middlesex.mass.edu/catalog

#### **JOB OPTIONS**

Mechanical Technologist

Mechanical Engineering Technician

Electrometrical Engineering Technician
Industrial Engineering Technician

Robotics Technician

#### **SALARY RANGE**

**\$39,985-\$40,985**(\$19.22 - \$19.70/ hr)

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#### ENGINEERING SCIENCE TRANSFER: CIVIL/ENVIRONMENTAL ENGINEERING A.S.

**Competencies:** Prepares students for transfer to an engineering bachelor degree program and employment in a variety of positions.

Learn more about the competencies at www.middlesex.mass.edu/catalog

#### **JOB OPTIONS**

Civil Engineering Technician
Surveying Technician
Construction and Building Inspector

#### SALARY RANGE

**\$41,130-\$42,360** (\$19.77 - \$20.37 / hr)



CAREER GROWTH Job opportunities for those with a Bachelor's degree, depending upon the major, include: Mechanical Engineer, Materials Engineer, Industrial/Manufacturing Engineer, Civil Engineer, Construction Engineer, Transportation Engineer, City /Town Engineer.



**Learn more about** Advanced Manufacturing, CAD and Engineering jobs, salaries, required education, and employment outlook by visiting **http://www.bls.gov/ooh/** or **http://lmi2.detma.org/lmi/lmi\_oes\_a.asp#3**.



To learn more, call us at 1-800-818-3434 or visit www.middlesex.mass.edu