



## Engineering Technology - Computer Aided Design (CAD) Associate in Science

### START here

**1**

SEMESTER 1 – FALL	CREDITS	MILESTONE	COMPLETED
CAD – 110 Engineering Graphics I	3		<input type="checkbox"/>
CAD – 169 Basic Solid Modeling I	3		<input type="checkbox"/>
ENG 101 – English Composition I	3		<input type="checkbox"/>
College-level Math course – Recommended: MAT 120 – Math Modeling – or– MAT 177 – Statistics	3		<input type="checkbox"/>
FYE – First-Year Experience and 2 additional IDS Electives	3		<input type="checkbox"/>

TOTAL CREDITS 15

**2**

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED
CAD 130 – Engineering Graphics II	3		<input type="checkbox"/>
CAD 227 – Advanced CAD Applications	3		<input type="checkbox"/>
CAD 180 – Solid Modeling II	3		<input type="checkbox"/>
ENG 102 – English Composition II: Introduction to Literature	3		<input type="checkbox"/>
CAP 101 – Computer Applications	3		<input type="checkbox"/>

TOTAL CREDITS 15

**3**

SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
CAD 225 – Solid Modeling III	3		<input type="checkbox"/>
CAD 220 – PCB/EM Layout	3		<input type="checkbox"/>
CAD 230 – Architectural CAD	3		<input type="checkbox"/>
Science Elective	3		<input type="checkbox"/>
Approved Elective – Recommended: EGR 101 – Introduction to Engineering	3/4		<input type="checkbox"/>

TOTAL CREDITS 15/16

**4**

SEMESTER 4 – SPRING	CREDITS	MILESTONE	COMPLETED
CAD 228 – Practicum in CAD Technology	3		<input type="checkbox"/>
CAD 205 – Geometric Dimensioning and Tolerancing	3		<input type="checkbox"/>
CAD 270 – Design for Manufacturing	3		<input type="checkbox"/>
Behavioral Science Elective	3		<input type="checkbox"/>
Humanities Elective – Recommended: ETH 101 – Ethics and Society –or– ETH 104 – Technology and Society	3		<input type="checkbox"/>

TOTAL CREDITS 15

**You've FINISHED!****Milestone Courses**

should be taken in the order shown. This will help you stay on track and graduate on time.

**Make Your Summer Matter.**

Summer is a great time to take some elective courses and get ahead.

### Helpful Hints

- Students are advised to fulfill their math requirements as early as possible.
- Students considering CAD as a pathway to engineering should consider the following:
  - If not testing into college-level math, taking the “80 series” modules of Preparation for College Math.
  - If testing into college-level math, taking MAT 195 – Precalculus for Engineering and Science or MAT 196 – Accelerated Precalculus and Trigonometry
  - Selecting chemistry or physics as the science elective.

### Career and Transfer Outlook

Graduates of the program are qualified to pursue jobs in several CAD career fields, especially mechanical and printed circuit board design. Graduates work in various industries with departments in mechanical design, printed circuit design, manufacturing or architectural design.

Many graduates of the CAD associate degree program have continued their studies toward a bachelor's degree in engineering or engineering technology at a four-year college.

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