

Pathways to Achievement, Completion, Career & Transfer



**ACADEMIC** MAP

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

START here **SEMESTER 1** – FALL CREDITS MILESTONE COMPLETED **A** 3 CAD - 110 Engineering Graphics I CAD - 169 Basic Solid Modeling I 3 ENG 101 - English Composition I 3 College-level Math course - Recommended: MAT 120 - Math Modeling -3 or-MAT 177 - Statistics Science Elective 4 TOTAL CREDITS 16

SEMESTER 2 – SPRING	CREDITS	MILESTONE	COMPLETED	
CAD 130 — Engineering Graphics II	3			
CAD 227 — Advanced CAD Applications	3			
CAD 180 — Solid Modeling II	3			
ENG 102 — English Composition II: Introduction to Literature	3			
CAP 101 — Computer Applications	3			
ŤŪ	TAL CREDITS 15		<b>4</b>	

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SEMESTER 3 – FALL	CREDITS	MILESTONE	COMPLETED
CAD 225 — Solid Modeling III	3		
CAD 220 — PCB/EM layout	3		
CAD 230 — Architectural CAD	3		
Humanities Elective — Recommended: ETH 101 — Ethics and Society —or— ETH 104 — Technology and Society	3		
Social Science Elective — Recommended: ECO 140 —or— ECO 150	3		

TOTAL CREDITS 15

4			
SEMESTER 4 – SPRING	CREDITS	MILESTONE	COMPLETED
CAD 228 – Practicum in CAD Technology	3		
CAD 205 — Geometric Dimensioning and Tolerancing	3		
CAD 270 — Design for Manufacturing	3		
Behavioral Science Elective	3		
Approved Elective — Recommended: EGR 101 — Introduction to Engineering	3		
TOTAL CREDI	TS 15		

You've FINISHED!

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



Matter. Summer is a great 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:
  - 1. If not testing into college-level math, taking the "80 series" modules of Preparation for College Math.
  - 2. If testing into college-level math, taking MAT 195 – Precalculus for Engineering and Science or MAT 196 - Accelerated Precalculus and Trigonometry
  - 3. 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

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