

**THIS IS A CAREER DEGREE.
IT IS NOT DESIGNED TO TRANSFER TO A FOUR YEAR UNIVERSITY.**

**Danville Area Community College
2021-2022**

Manufacturing Engineering Technology CAD Option

Associate in Applied Science Degree
NIMS Certified Program

This program prepares students for careers as professional draftsmen and CAD technicians. Employment opportunities for those completing the program include positions such as drafter, CAD operator, CAD technician. This is an occupational program typically not designed to transfer; however, this program has been articulated to some senior institutions. Please contact a counselor for specific details.

***First time degree seeking students must complete INST101, Success in College,
as a requirement for graduation.***

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
First Semester			
* MATT 133 Technical Math I (pre: MATT 132 or Placement Exam)	4		
DRAF 160 Machining Graphics	3		
DRAF 166 Intro to AutoCAD (pre: DRAF 150 or DRAF 161)	3		
MFRG 160 Machining I	3		
* ENGL 101 Rhetoric <u>OR</u> ENGL 121 Communication Skills	3		
Total	16		
Second Semester			
DRAF 266 Applied AutoCAD (pre: DRAF 166)	3		
MFRG 168 CNC Setup & Operations	4		
CBUS 150 Business Computer Systems	3		
MFRG 161 Machining II (pre: MFRG 160)	3		
Total	13		
Third Semester			
* ENGL 122 Technical Communication (pre: ENGL 101 or ENGL 121)	3		
DRAF 162 Technology in Advanced Manufacturing	3		
DRAF 276 Advanced AutoCAD Applications (pre: DRAF 266)	3		
MFRG 169 Intro to CNC Prog (pre: MFRG 168)	4		
INFO 245 Employment Seminar (pre: Instructor Consent)	1		
* Humanities Elective	3		
Total	17		
Fourth Semester			
MFRG 100 Industrial Safety	3		
MFRG 280 CAD/CAM (pre: DRAF 266 & MFRG 169)	3		
MFRG 162 Machining III (pre: MFRG 161)	3		
* Social Science Elective	3		
Technical Elective	3		
Total	15		
Total Hours	61		

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Manufacturing Engineering Technology CAD Option (continued)

	HOURS	F,S,I,SU	GRADE
Technical Electives			
MFRG 200 Manufacturing Management & Quality (pre: MFRG 110 or MFRG 160)	3		
MFRG 170 Applied CNC Programming (pre: MFRG 169)	4		
MFRG 285 Supervised Occupational Exp. (pre: Instructor and Division Dean Consent)	3		

See list of Human Relations requirements.

* General Education.

Enrollment in developmental classes may increase the length of time it takes to complete an associate degree.