

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

**Danville Area Community College  
2020-2021**

## Manufacturing Engineering Technology

Associate in Applied Science Degree  
NIMS Certified Program

This curriculum is designed to prepare the student for a career in the fields of manufacturing and production technology. Positions in a conventional machine shop and/or a Computer Numerical Control shop can be attainable by program graduates. 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
<b>First Semester</b>			
* MATT 133 Technical Math I	4		
MFRG 160 Machining I	3		
DRAF 160 Machining Graphics	3		
DRAF 166 Intro to AutoCAD	3		
* ENGL 101 Rhetoric <u>OR</u> ENGL 121 Communication Skills	3		
Total	16		
<b>Second Semester</b>			
CBUS 150 Business Computer Systems	3		
MFRG 161 Machining II (pre: MFRG 160)	3		
MFRG 168 CNC Setup & Operations (pre: MFRG 160)	4		
DRAF 266 Applied AutoCAD (pre: DRAF 166)	3		
Total	13		
<b>Third Semester</b>			
DRAF 162 Technology in Advanced Manufacturing	3		
MFRG 169 Intro to CNC Prog (pre: MFRG 168)	4		
INFO 245 Employment Seminar	1		
* ENGL 122 Technical Communication (pre: ENGL 101 or ENGL 121)	3		
MFRG 162 Machining III (pre: MFRG 161)	3		
* Humanities Elective	3		
Total	17		
<b>Fourth Semester</b>			
MFRG 170 Applied CNC Programming (pre: MFRG 169)	4		
MFRG 100 Industrial Safety	3		
MFRG 280 CAD/CAM (pre: DRAF 266 & MFRG 169)	3		
* Social Science Elective	3		
Technical Elective	3		
Total	16		
Total Hours	65		

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**Manufacturing Engineering Technology (continued)**

	<b>HOURS</b>	<b>F,S,I,SU</b>	<b>GRADE</b>
<b>Technical Electives</b>			
DRAF 276 Advanced AutoCAD Applications (pre: DRAF 266)	3		
MFRG 285 Supervised Occupational Exp (pre: consent of instructor)	3		
MFRG 163 Machining Tools IV	3		
WELD 180 Structural Welding	4		

\* General Education.

See list of Human Relations requirements.

NOTE: Pre-Tech Math (MATT 132) is available for students needing preparation for MATT 133.

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