

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

**Danville Area Community College  
2020-2021**

## Advanced Manufacturing

Associate in Applied Science Degree

The diversified training required for persons employed in the plant maintenance positions is provided in this program. Student need and training will be considered in determining the schedules of courses for the two-year degree program. 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>			
* ELEC 168 Mechatronics II	4		
MFRG 105 Mechatronics I	3		
ELEC 160 Intro to Electricity/Electronics	5		
MATT 133 Technical Mathematics I	4		
Total	16		
<b>Second Semester</b>			
* MFRG 100 Industrial Safety	3		
MFRG 110 Maintenance Tools and Procedures	3		
MFRG 230 Electrical Diagnosis and Repair	4		
MFRG 168 CNC Setup & Operations	4		
ENGL 121 Communication Skills	3		
Total	17		
<b>Third Semester</b>			
WELD 150 Welding for Mechanics	4		
MFRG 220 Mechanical Diagnosis and Repair (pre: MFRG 105)	4		
MFRG 169 Intro. to CNC Programming	4		
ENGL 122 Technical Communications	3		
INFO 245 Employment Seminar	1		
Total	16		
<b>Fourth Semester</b>			
ELEC 250 Mechatronics IV	4		
ELEC 269 Mechatronics III	3		
Humanities Elective	3		
Social Science Elective	3		
MFRG 231 Mechatronics V	4		
Total	17		
Total Hours	66		

\* 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.