

Program Completion Guide
CIP Code - 15.0613
Machine Tool
Associate in Applied Science (AAS Degree)
2023-2024

Area I: Written Composition (6 Semester Hours Total)

Courses	Courses Taken	Hours Earned
ENG101		
ENG102		

Area II: Humanities and Fine Arts (3 Semester Hours Total)

Courses	Courses Taken	Hours Earned
ART100, ENG251, ENG252, ENG261, ENG262, ENG271, ENG272, MUS101, PHL206, REL100, REL151, REL152, SPH107		

Area III: Natural Science and Mathematics (10 Semester Hours Total)

Note: CIS146, MTH100 and a 4 credit hour science course are required.

Courses	Courses Taken	Hours Earned
CIS146		
MTH100 or Higher		
MTH110, MTH112, MTH113, MTH115, MTH120, MTH125, MTH126, MTH227		
BIO103, BIO104, CHM111, CHM112, PHS111, PHS112, PHY201, PHY202		

Area IV: History, Social, and Behavioral Sciences (3 Semester Hours Total)

Courses	Courses Taken	Hours Earned
ECO231, ECO232, HIS121, HIS122, HIS201, HIS202, PSY200, PSY210		

Area V: Pre-Professional, Major, and Elective Courses (47 Semester Hours Total)

Courses	Credit Hours	Courses Taken	Hours Earned
Major Core Concentration (39 Semester Hours)			
ADM101 – Precision Measurement	3		
ADM110 - Blue Print Reading	3		
ADM111 - Manufacturing Safety Practices	3		
MTT107 - Machining Calculations I	3		
MTT139 - Basic Computer Numerical Control	3		
MTT140 - Basic Computer Numerical Control Turning Programming I	3		
MTT141- Basic Computer Numerical Control Milling Programming I	3		
MTT147 - Introduction to Machine Shop I	3		
MTT148 - Introduction to Machine Shop I Lab	3		
MTT149 - Introduction to Machine Shop II	3		
MTT150 - Introduction to Machine Shop II Lab	3		

MTT219 - Computer Numerical Control Graphics: Turning	3		
MTT220 - Computer Numerical Control Graphics: Milling	3		
Elective Courses (6 Semester Hours)			
ADM102 - Computer Aided Design	3		
ADM106 - Quality Control	3		
ADM283 - CO-OP	3		
CNC281 – Special Topics in CNC	3		
MTT125 - Introduction to Machining Technology	3		
MTT127 – Metrology	3		
MTT128 - Geometric Dimensioning and Tolerancing I	3		
MTT134 - Lathe Operations I	3		
MTT129 - Lathe Operations	6		
MTT135 - Lathe Operations I Lab	3		
Institutional Requirements (2 Semester Hours)			
ORI101 Take in the first semester unless student has 12 transfer credit hours			
BSS220 Take in last semester of program			

In Area I through Area IV, transfer credits are accepted in accordance to ACCS policy.

For additional courses see http://stars.troy.edu/approved_courses.html

Total Semester Hours Required for Degree: 69

Student Name:	Signature of Advisor:
Student Number:	Date of Advising:
Total Credit Hours Earned:	Date Audited by Admissions:

Certificates and Short Term Certificates are available:

- CNC Machining Fundamentals – MTT CER 38 hrs.
- Machining Fundamentals - MTT CER 38 hrs.
- Precision Machining Milling – MTT STC1 9 hrs.
- Precision Machining Fundamentals – MTT STC2 9 hrs.