Cluster: Manufacturing

Major: ***Machine Tool Technology***

High School

9	10	11	12
English 1	English 2	English 3	English 4 (TAP option for ENG 155)
Algebra 1 (TAP option for MTT 105)	Geometry	Algebra 2 (TAP option for MTT 205)	Pre-Calculus or Probability & Statistics
Physical Science	Biology	Chemistry	Physics
Global Studies	Social Studies Elective	US History	Government and Economics
Computer Science	*Intro to Machine Technology I and Machine Technology II- Measurements and Bench Skills **AND→→**	*Machine Technology III – Engine Lathe **AND →**	*Machine Technology IV – Milling, Grinding, Computer Machining (CNC) and Machine Technology V – Special Machine Projects (TAP option for MTT 121,122,123,124,125, and MTT 126, EGT 104, MTT 105, MTT 205
Physical Education or Jr. ROTC	**General Elective	***TCTC Dual Enrollment Option (Social Science elective recommended)	Note: TAP credit and dual enrollment options and sequence may vary according to high school and/or career center course offerings.

Note: The core academic courses listed represent the more commonly chosen courses and sequences. *Cluster electives are selected from the career major which consists of at least 4 required units of study in that area. Any number of cluster electives is possible depending on the offerings of the particular high school/career center. Some cluster elective courses may be taken for Technical Advanced Placement (TAP) credit or as dual enrollment (college) credit. **General electives may be complementary cluster electives or other courses, such as foreign language, fine arts, etc. and are based on an individual student's interest, career goals and college requirements. ***Qualified students may consider other dual enrollment courses to satisfy general education requirements.

Major: Machine Tool Technology

Associate Degree in Applied Science

Tri-County Technical College

Fall 1	Spring 1	Summer	Fall 2	Spring 2
EGT 104 Print Reading (TAP option)	MTT 124 Machine Tool Practice II (TAP option)	ENG 155 Communications I (TAP option for Eng 4)	MTT 224 Tool and Diemaking Practice II	HSS 105 Technology and Culture
MTT 105 Machine Tool Math Applications (TAP option Alg. I)	MTT 125 Machine Tool Theory III (TAP option)	MTT 141 Metals and Heat Treatment	**EGT 151 Intro to CAD	***MTT 253 CNC Programming Operations
MTT 121 Machine Tool Theory I I(TAP option)	MTT 205 Tool and Die Math App (TAP option Alg. 2)	*MTT 175 Innovations in Machining	ENG 156 Communications II	**MTT 254 CNC Programming I
MTT 122 Machine Tool Practice I (TAP option)	EGT 106 Print Reading and Sketching	MTT 222 Tool and Diemaking Practice I	MAT 155 Contemporary Math	***MTT 258 Machine Tool CAM
MTT 123 Machine Tool Theory II (TAP option)	MTT 126 Machine Tool Practice III (TAP option)	MTT 250 Principles of CNC	MTT 251 CNC Operations	Social Science Elective (dual enrollment option)
MTT 211 Die Theory	MTT 212 Tool Design			

Degree/Major: Associate Degree in Applied Science Major in Machine Tool Technology Degree. Note: In addition to the associate degree, students who have earned TAP credit will have the opportunity to earn the Basic Machining, CNC Math and Print, CNC, and CAD/CAM/CNC certificates. Contact Mr. John Norris, Program Coordinator, at 646-1330, for more information on this option. See TAP Handbook for Machine Tool Technology. With TAP credit, students may exempt the following classes (21 credits): MTT 121, MTT 122, MTT 123, MTT 124, MTT 125, MTT 126.

*Additional course that may be used for elective credit MTT 175. **Additional courses for the CAD/CAM/CNC Certificate and may be used for elective credit. ***Additional course for the CNC Certificate and may be used for elective credit.