

Cluster: Manufacturing

Major: **Engineering Graphics Technology**

**High School**

| 9                              | 10  | 11  | 12   |
|--------------------------------|---|---|--|
| English 1                      | English 2   | English 3   | English 4<br>or ENG 101 dual enrollment  |
| Algebra 1                      | Geometry  | Algebra 2   | Pre-Calculus or Probability & Statistics   |
| Physical Science               | Biology   | Chemistry   | Physics  |
| Global Studies                 | Social Studies Elective   | US History  | Government and Economics   |
| Computer Science               | Introduction to Mechanical Design<br><br>(TAP credit for EGT 151) | *Mechanical Design I<br><br>(TAP credit for EGT 101)  | *Mechanical Design II<br>And<br>*Introduction to CAD<br>EGT 151 (dual enrollment)<br>And<br>Fundamentals of CAD<br>EGT 152 (dual enrollment)<br>(TAP credit for EGT 115 and EGT 152) |
| Physical Education or Jr. ROTC | **General Elective  | **General Elective or<br>***TCTC Dual Enrollment Courses<br>(recommend college Social Science or Humanities elective) | ***TCTC EGT dual enrollment courses and additional TAP credit may be offered at district career centers. Consult career center.  |

**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 in their associate degree major

**Major: Engineering Graphics Technology (EGT)**  
Associate Degree in Applied Science  
Tri-County Technical College

| Fall 1  | Spring 1   | Summer                                 | Fall 2   | Spring 2  |
|---|--|--|--|---|
| ENG 101<br>English<br>Composition I                                 | ENG 260<br>Advanced Technical<br>Communications                      | EGT 120<br>Geometric<br>Tolerances     | EGT 210<br>Engineering<br>Graphics III         | EGT 215<br>Mechanical Drawing<br>Applications               |
| MAT 109<br>College Algebra<br>with Modeling                         | MAT 130<br>Elementary Calculus                                       | EGT 250<br>CAD<br>Applications         | EGT 252<br>Advanced CAD                        | EGT 255<br>Applications in<br>Advanced                      |
| PHY 181<br>Integrated Physics I                                     | PHY 182<br>Integrated Physics II                                     | EGT 165<br>Intro to<br>CAD/CAM         | EGR 194<br>Static and Strength<br>of Materials | **Social Science and<br>Humanities and General<br>Electives |
| EGR 181<br>Integrated<br>Technology I                               | EGR 182<br>Integrated Technology II                                  | EGR 120<br>Engineering<br>Computer App | EGT 265<br>CAD/CAM Applications                | **Social Science,<br>Humanities and General<br>Electives    |
| EGT 110<br>Eng. Graphics I<br>(credit earned by<br>passing EGT 151) | EGT 115<br>Eng. Graphics II<br>(credit earned by passing<br>EGT 152) |  |  | **Social Science,<br>Humanities and General<br>Electives    |
|   | EGT 152<br>Fundamentals of CAD<br>(TAP Option)                       |  |  |   |

**\*Degree/Major:** Associate in Applied Science, Major: Engineering Graphics Technology. Note: In addition to the associate degree, students who have earned TAP credit will have the opportunity to earn the Basic CAD and Advanced CAD certificates. Contact John Norris, Program Coordinator, at 646-1330, for more information on this option. **\*\* Recommended electives:** See College Catalogue for list of General Education Electives in Humanities and Social Science.