## Program of Study

### Cluster: Manufacturing

#### Educational Level | Grade | CTE/Degree Major Courses | English | Mathematics | Science | Social Science | Work-Based Learning Opportunities
---|---|---|---|---|---|---|---
**Secondary** | 9 | Computer Applications I and Orientation to Technology | English 100 and Contemporary Literature | Algebra I | Introduction to Science or Biology | Geography | Foreign Language Business Ed
 | 10 | Technical Drafting | English 200 | Geometry | Chemistry | American Government | Foreign Language Consumer Ed Related Electives Skills USA (KEC) | Bus 101 Intro to business Skills USA
 | 11 | Computer Aided Drafting; Manufacturing Engineering Technology Academy 1 (2); MT 101, MT 151, MT 215 | Communications, AP English: Language and Composition or English elective | Algebra II | | | MT 280 Orientation to Internship MT 283 MT Internship
 | 12 | Consumer Economics; Metals IW; Manufacturing Engineering Technology Academy 2 (2); MT 103, MT 152, MT 216 | AP English: Literature and Composition or English electives | Trigonometry/Pre-Calculus or Applied Mathematics | Physics | | MT 280 Orientation to Internship MT 283 MT Internship
 | 13 | MT 101 Print Reading for Industry (2); MT 215 Manufacturing Processes I (2); MT 290 Intro to CNC (4); CAD 111 Technical Drafting (3); MT 261 Manufacturing Processes II (4); MT 264 Fixture Design I (4); MT 292 CNC (3) | SPE 100 Fundamentals of Speech | MT 151 Machine Shop Math I and MT 152 Machine Shop Math II | | | Bus 101 Intro to business Skills USA
 | 14 | MT 294 Adv. CNC (4); MT 216 Fabrication Practices (2); MT 296 Computer-Aided Manufacturing (3); CAD, MT, WT, electives (11) | ENG 109 Tech Report Writing or ENG 103 Composition both required by NIU | Required by NIU: MAT 155 Trig | Science Elective; Required by NIU: CHE 110; CHE 111 | Gen Ed Elective; Required by NIU: 3 Humanities electives; 1 Soc Sci elective; 1 interdisciplinary elective | Required by NIU: CAD 151; ELE 101; ACC 121
 | 15 | (Fall) | Continued Classes in Chosen Program of Study | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | ECO 100 Consumer Economics or ECO 260 Principles of Macroeconomics | Career Opportunities
 | | (Spring) | Continued Classes in Chosen Program of Study | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | | 
 | 16 | (Fall) | Continued Classes in Chosen Program of Study | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | | 
 | | (Spring) | Continued Classes in Chosen Program of Study | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | Classes and Electives Required for bachelors degree | | 

**Kishwaukee Educational Consortium Dual Credit Classes**

Form 8 AET Genoa Kingston High School