

**Advanced Manufacturing
Certificate of Proficiency – CNC Operator (15 credits)
Technical Certificate – Advanced Manufacturing (30 credits)**

PROGRAM DESCRIPTION – This program prepares students to enter the workforce as a CNC Machine Operator.

PROGRAM REQUIREMENTS:

| First Semester | | | | |
|-------------------------|--|----------------------|----------------|----------|
| COURSE ID | COURSE NAME | COLLEGE CREDIT HOURS | HS COURSE CODE | HS HOURS |
| ADVM 1123 | Materials, Measurements, and Safety | 3 | 595260 | 1 |
| ADVM 1264 | CAD/CAM | 4 | 590910 | 1 |
| TOTAL HOURS | | 7 | | 2 |
| Second Semester | | | | |
| MATH 1013 | Mathematical Applications | 3 | 539970 | 1 |
| ADVM 2264 | Advanced CAD/CAM | 4 | 592710 | 1 |
| TOTAL HOURS | | 7 | | 2 |
| Third Semester | | | | |
| ADVM 1154 | CNC Milling | 4 | 592590 | 1 |
| ADVM 1144 | CNC Turning | 4 | 592600 | 1 |
| TOTAL HOURS | | 8 | | 2 |
| Fourth Semester | | | | |
| ADVM 1134 | Job Planning, Benchwork, and Layout | 4 | 592610 | 1 |
| ENG 1203 | Workplace Essentials | 3 | 593330 | 1 |
| TOTAL HOURS | | 7 | | 2 |
| Fifth & Sixth Semesters | | | | |
| ADVM 1093 | Manufacturing Engineering Design and Problem Solving | 3 | 593190 | 1 |
| ADVM 1034 | Design for Manufacturing | 3 | 590790 | 1 |
| TOTAL HOURS | | 6 | | 2 |