



2026 - 2027

# Computer-Integrated Machining

Associate in Applied Science Degrees

MULTIPLE LOCATIONS

| VARIED SEMESTER LENGTHS

| NUMEROUS PROGRAMS

| FINANCIAL AID



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ASHEVILLE, NORTH CAROLINA • (828) 398-7900 • ABTECH.EDU



## Computer-Integrated Machining

The Computer-Integrated Machining curriculum prepares students with the analytical, creative, and innovative skills necessary to take a production idea from an initial concept through design, development, and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement, and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

### For More Information:

Contact Kevin Kiser by email at [kevinskiser@abtech.edu](mailto:kevinskiser@abtech.edu)

### Total Cost Estimate

**Tuition per Semester (NC Resident)** \$1,216.00 (16+ credit hours)  
\$76.00/credit hour (1-15 hours)

**Computer Use and Technology Fee** \$48/semester

**Activity Fee** Fall and Spring semesters only,  
Main campus and Online, \$45.00

**CAPS Fee (Campus Access, Parking and Security)** \$30/semester

**Matriculation Fee** \$25/semester

**Student Insurance** \$2/Semester

**Additional Fees including books may incur, please check A-B Tech website for more detail:** <https://abtech.edu/program/computer-integrated-machining-aas-cost-estimate>

**Have you applied for Financial aid? Please visit A-B Tech website for instructions:** <https://abtech.edu/future-students/financial-aid/applying-aid>

### Diploma and Certificates Available:

**Computer-Integrated Machining - Diploma**

**Advanced Machine Operator Certificate**

**Computer Numerical Control (CNC) Machine Programmer Certificate**

**Quality & Lean Six-Sigma Certificate**

**EDM & Fixture Specialist Certificate**

**Robotics & Multi-Axis Machining Certificate**

For more information, please visit:

<https://abtech.edu/programs/academic/computer-integrated-machining>

*Courses requiring a grade of "C" or better: ATR, EGR, ISC, MAC, and MEC*

|                          | Course Prefix | Course Name                      | Credit Hours |
|--------------------------|---------------|----------------------------------|--------------|
| First Semester (Fall)    | EGR 110       | Intro to Engineering Techn       | 2            |
|                          | MAC 122       | CNC Turning                      | 2            |
|                          | MAC 124       | CNC Milling                      | 2            |
|                          | MAC 131       | Blueprint Reading/Mach I         | 2            |
|                          | MAC 141       | Machining Applications I         | 4            |
|                          | MAC 171       | Measure/Material & Safety        | 1            |
|                          | MEC 110       | Intro to CAD/CAM                 | 2            |
| Second Semester (Spring) | ISC 116       | Lean Mfg Principles/Practices    | 1            |
|                          | ISC 132       | Mfg Quality Control              | 3            |
|                          | MAC 132       | Blueprint Reading/Mach II        | 2            |
|                          | MAC 142       | Machining Applications II        | 4            |
|                          | MAC 228       | Advanced CNC Processes           | 3            |
|                          | MAT 110       | Math Measurement & Literacy      | 3            |
| Third Semester (Summer)  | ENG 110       | Workplace Writing Essentials     | 3            |
|                          | MAC 160       | Coordinate Measuring Mach        | 3            |
|                          | MAC 248       | Production Procedures            | 2            |
| Fourth Semester (Fall)   | ATR 112       | Intro to Automation              | 3            |
|                          | COM 120       | Intro Interpersonal Com          | 3            |
|                          | HUM 115       | Critical Thinking                | 3            |
|                          | MAC 226       | CNC EDM Machining                | 2            |
|                          | MAC 245       | Mold Construction I              | 4            |
| Fifth Semester (Spring)  | ATR 212       | Industrial Robots                | 3            |
|                          | EGR 285       | Design Project                   | 2            |
|                          | MAC 234       | Adv Four/Five-Axis Machining     | 3            |
|                          | MAC 234A      | Adv Four/Five-Axis Machining Lab | 1            |
|                          | PSY 150       | General Psychology               | 3            |
| <b>Program Totals:</b>   |               |                                  | <b>66</b>    |

Advising questions? Email: [advising@abtech.edu](mailto:advising@abtech.edu)