



2025 - 2026

Computer-Integrated Machining

Associate in Applied Science Degrees

MULTIPLE LOCATIONS

| VARIED SEMESTER LENGTHS

| NUMEROUS PROGRAMS

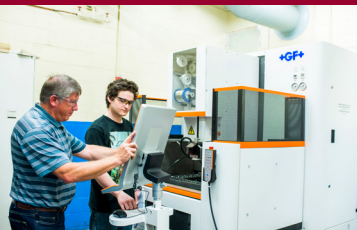
| FINANCIAL AID



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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

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, \$35.00

CAPS Fee (Campus Access, Parking and Security) \$20/semester

Matriculation Fee \$10/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 141A	Machining Applications I Lab	2
	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	Freshman Composition	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
Program Totals:			68