

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.

Programs

- CNC Operator Certificate (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/cnc-operator-certificate/>)
- Computer-Integrated Machining Certificate (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/computer-integrated-machining-certificate/>)
- Computer-Integrated Machining Degree (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/computer-integrated-machining-degree/>)
- Computer-Integrated Machining Diploma (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/computer-integrated-machining-diploma/>)
- Manual Machining Certificate (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/manual-machining-certificate/>)
- Pre-Engineering CNC Certificate (<https://courseleaf.johnstoncc.edu/programs/industrial-technologies/computer-integrated-machining/pre-engineering-cnc-certificate/>)