

ASSOCIATE OF APPLIED SCIENCE DEGREE

Advanced Manufacturing Technology: Automation/Robotics Option

The Advanced Manufacturing Technology program prepares students for employment in industries with automated manufacturing processes. The program is built around a set of core courses designed to give students the basic skill set required for this industry coupled with specialty courses allowing students to focus on various related options. This Program of Study addresses the Automation/Robotics Option.

Orientation	1 hour
COLL 101* College Orientation (1)	
Communications	9 hours
Written Communications (6 hours)	
ENGL 100 Mechanics of Composition (3)	
ENGL 101* English Composition (3)	
ENGL 102* Advanced English Composition (3)	
ENGL 203* Technical Report Writing (3)	
Oral Communications (3 hours)	
SPCH 101 Fundamentals of Speech (3)	
Mathematics	3 hours
MATH 111* College Algebra (3)	
or MATH 104* Technical Mathematics (3)	
Missouri Constitution	3 hours
PLSC 103* National, State, Local Government (3)	
or HIST 106* U.S. History I (3)	
Common Advanced Manufacturing Courses	11 hours
BSAD 103 Professional Development (2)	
BSAD 125 Computer Applications (3)	
DRFT 101 Introduction to Engineering Drawing (3)	
WELD 113 Introduction to Welding (3)	
Common Advanced Manufacturing Courses	19 hours
AMT 102* Introduction to Industrial Electricity (3)	
AMT 104* Electrical Motor Controls (3)	
AMT 111 Introduction to Industrial Safety (1)	
AMT 132 Industrial Hydraulics (3)	
AMT 142 Mechanical Power Transmission (3)	
AMT 204* Programmable Controllers (3)	
AMT 290 Manufacturing Internship (3)	
Specialty Courses: AUTOMATION/ROBOTICS	15 hours
Required Courses: 15 hours	
AMT 182* Intro to Automated Robotics (3)	
AMT 206* Programmable Controllers II (3)	
AMT 284* Automated Robotic Programming (3)	
CNS 101 Introduction to Electronics (3)	
CNS 115 Cisco Networking I (3)	
Total Hourly Requirement	61 hours

*Pre-requisite requirement