

ASSOCIATE OF APPLIED SCIENCE DEGREE

Advanced Manufacturing Technology: Manufacturing Maintenance 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 Manufacturing Maintenance 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	
	DRFT	101	Introduction to Engineering Drawing (3)
	WELD	113	Introduction to Welding (3)
	BSAD	125	Computer Applications (3)
	BSAD	103	Professional Development (2)
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: MANUFACTURING MAINT		15 hours	
Required Courses: 9 hours			
	AMT	122*	Basic Machining (3)
	CONS	132	Plumbing I (3)
	CONS	155	Basic HVAC (3)
Specialty Electives: 6 hours			
	AMT	162*	Industrial Process Control I (3)
	AMT	206*	Programmable Controllers II (3)
	CNS	101	Introduction to Electronics (3)
	CNS	115	Introduction to Networking (3)
	WELD	145*	Gas Metal Arc Welding – GMAW (3)
	WELD	150*	Gas Tungsten Arc Welding – GTAW (3)
	WELD	155*	Shielded Metal Arc Welding – SMAW (3)
	DEPT	XXX	Any Technology or Business Division Course (3)
Total Hourly Requirement		61 hours	

* - These courses have pre-requisite requirements. See catalog description for details.