

Industrial Technology (AAS)

Manufacturing & Industrial Systems Option

Degree Type: Associate of Applied Science Degree

Division: Business, Education, Math, Science & Technology

Purpose: Career and Technical Education. This option in the Industrial Technology program focuses on the knowledge and skills necessary for success in the installation and maintenance of commercial and industrial systems. This degree option prepares students for entry-level employment and a foundation for future advancement in the industrial technology and manufacturing sectors, as well as entry into university-level technology programs.

FIRST YEAR

Fall Semester			Hours	✓
ENGL ENGL	105 ⁽¹⁾ 111 ⁽¹⁾	Technical Writing –or– College Writing	3	
CIVL MATH	106 ⁽¹⁾ 153 ⁽¹⁾	Technical Math I ⁽²⁾ –or– Intermediate Algebra (or higher)	3	
IST	100	Computer Literacy	3	
ELEC	115	Applied DC & AC Circuits	3	
ENGR	110	Engineering Graphics	3	
TOTAL HOURS			15	

Spring Semester			Hours	✓
GOVT	121 ⁽¹⁾	National and State Government	3	
MAFT	228	Quality Assurance	3	
MAFT	229	Introduction to Safety & Health	3	
CIVL MATH	107 163 ⁽¹⁾	Technical Math II ⁽²⁾ –or– College Algebra (or higher)	3	
ELEC	207	Industrial Electronics Applications	3	
TOTAL HOURS			15	

SECOND YEAR

Fall Semester			Hours	✓
SCOM	110 ⁽¹⁾	Public Speaking	3	
PHYS PHYS	100 101	Survey of Physics –or– Physical Science	3 5	
ELEC	117	Industrial Electronic Controls	3	
MAFT	235	Manufacturing Processes	3	
MAFT	255	Hydraulics & Pneumatics	3	
ELEC	218	Electrical Codes & Standards	2	
TOTAL HOURS			17-19	

Spring Semester			Hours	✓
ELEC	216	Programmable Controller Systems	3	
MAFT	267	Automated Manufacturing Systems	3	
MEDR	246	Computer Aided Machining	3	
MAFT	297	Internship ⁽³⁾	6	
TOTAL HOURS			15	

⁽¹⁾Course has prerequisite or placement requirements.

⁽²⁾Students planning to transfer to a four-year institution should substitute MATH 163, MATH 164 or MATH 170.

⁽³⁾Students with extensive full-time industry experience and instructor approval may substitute six credit hours of approved coursework.