

Associate in Applied Science Degree**MECHATRONICS TECHNOLOGY - INDUSTRIAL MAINTENANCE**

This program is not accepting students for the current semester.

The Mechatronics/Industrial Maintenance Technology Program prepares students as entry level technicians in diversified manufacturing industries. Students will gain knowledge and skills in reading industrial schematics and drawings, understanding direct current (DC) and alternating current (AC) circuits, analog and digital electronics, programmable logic controllers (PLCs), motor controls and drives, robotics, and fluid power systems including mechanics, pneumatics, hydraulics, and instrumentation needed for computerized integrated manufacturing. Emphasis is placed on predictive maintenance, troubleshooting and quality assurance.

Required Courses

Mechatronics Technology Requirements

DEGREE REQUIREMENTS: MECHATRONICS TECHNOLOGY - INDUSTRIAL MAINTENANCE

Component	Course Title	Semester Credit Hours
GENERAL EDUCATION		
MAT 170	Algebra, Geometry, and Trigonometry I	3
ENG 155	Communications I*	3
ENG 160	Technical Communications*	3
PSY 103	Human Relations*	3
PHI 110	Ethics	3
	CREDITS	15
REQUIRED CORE SUBJECT AREAS		
AMT 105	Robotics & Automated Controls I	3
EEM 215	DC/AC Machines	3
EEM 251	Programmable Controllers	3
EEM 275	Technical Troubleshooting	3
IMT 131	Hydraulics and Pneumatics	4
	CREDITS	16
OTHER HOURS REQUIRED FOR GRADUATION		
EEM 117	AC/DC Circuits I	4
EEM 140	National Electrical Code	3
IET 223	Industrial Safety	3
EEM 118	AC/DC Circuits II	4
EEM 170	Electrical Installation	3
IMT 161	Mechanical Power Applications	4
EEM 151	Motor Controls	4
EEM 221	DC/AC Drives	3
EEM 252	Programmable Controller Applications	3
EEM 231	Digital Circuits	3
AMT 102	Computer Controlled Machinery	4
AMT 205	Robotics and Automated Control II	3

(Continued)

EEM 235

Power Systems

3

CREDITS

44

TOTAL CREDIT HOURS

75

*Students interested in transferring to a senior institution should select ENG 101 & ENG 102 in place of ENG 155 & ENG 160, and PSY 201 in place of PSY 103.