

INT 101	DC Fundamentals	3
INT 103	AC Fundamentals	3
INT 113	Motor Controls	3
INT 117	Industrial Mechanics	3
INT 253	Industrial Robotics	3
INT 184	Intro to Programmable Logic Controllers.....	3
INT 284	Advanced Programmable Logic Controllers	3
INT 288	Applied Programmable Logic Controllers	3

Additional certificate requirements	3
ORI 101 Orientation to College	1
WKO 101 Workplace Skills Development	2

Total 60

Short Certificate - Applied Technology: Industrial Maintenance option

This program prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

credit hours

Required courses	27
INT 101 DC Fundamentals	3
INT 103 AC Fundamentals	3
INT 113 Motor Controls	3
INT 117 Industrial Mechanics	3
INT 253 Industrial Robotics.....	3
INT 184 Intro to Programmable Logic Controllers.....	3
INT 284 Advanced Programmable Logic Controllers.....	3
INT 288 Applied Programmable Logic Controllers	3
INT 134 Prin. of Industrial Maintenance Welding and Metal Cutting Techniques.....	3

Total 27

Certificate - Applied Technology: Sustainable Construction/Renewable Energy Option

This program emphasizes the tools and materials used in the construction industry. Topics include safety, hand tools, hand held power tools, building codes, construction measurements, and construction materials. This course also integrates renewable energy topics such as solar /thermal principals, sustainable building materials, and photovoltaic principals and design. Upon completion, students should be able to work safely within the industry and operate various hand tools and power equipment. Students will also understand how sustainable construction affects the environment and future economy.

credit hours

Required general education courses	12
ENG 101 English Composition I	3
MTH 100 Intermediate College Algebra or higher level MTH.	3
SPH 106 Fundamentals of Oral Communication	3
or SPH 107 Fundamentals of Public Speaking	3
CIS 146 Microcomputer Applications	3