Industrial Technology

Certificate
30 Credit Hours

Purpose

The Industrial Technology Certificate Program is designed to provide basic skills in a variety of applied industrial careers which can lead to entry-level positions and provides a smooth transition into an associate or high technology field.

Mechatronics Option

The full Industrial Technology Certificate Program, Mechatronics Option, is available at the Logan Campus. The Boone/Lincoln, Williamson, and Wyoming/McDowell campuses offer the general education/program support courses only.

First Semester	Title	Credit Hours
EG 103	Electrical Calculations	3
EG 105 (E)	Industrial Safety	1
EG 107 (E)	Introduction to Circuits	4
MT 124	Technical Math	3
MX 110	Introduction to Mechatronics	2
OR 105 (E)	Orientation to Technical Programs	1
		14
Second Semester	**Title**	**Credit Hours**
EN 101	~English Composition I	3
MX 120	Mechanical Power I	2
MX 130	Fluid Power I	2
MX 180	PLC Fundamentals	1
MX 184	PLC Interfacing and HMIS	1
MX 186	PLC Applications	1
MX 190	Industrial Robotics	3
SP 103	~Speech Fundamentals	3
		16

~ Designates courses on the statewide Core Coursework Transfer Agreement.

Machinist Option

The full Industrial Technology Certificate Program, Machinist Option, is available at the Williamson Campus. The Boone/Lincoln, Logan, and Wyoming/McDowell campuses offer the general education/program support courses only.

First Semester	Title	Credit Hours
EG 105 (E)	Industrial Safety	1
MC 121	Introduction to Machining	6
MC 200	Blueprint Reading, Precision Measurement & Inspection	4
MT 105	Practical Math for Industrial Occupations	3
OR 105	Orientation to Technical Programs	1
		15
Second Semester	**Title**	**Credit Hours**
EN 101	~English Composition I	3
MC 215	Metalworking Theory & Application	6
MC 233	NIMS Credentialing/Manual Machining	6
		15

~ Designates courses on the statewide Core Coursework Transfer Agreement.

Welding Option

The full Industrial Technology Certificate Program, Welding Option, is available at the Williamson Campus. The Boone/Lincoln, Logan, and Wyoming/McDowell campuses offer the general education/program support courses only.

First Semester	Title	Credit Hours
CS 102 (E)	Computer Literacy	3
MT 105	Practical Math for Industrial Occupations	3
OR 105 (E)	Orientation to Technical Programs	1
WL 100	Oxyacetylene Welding (OAW)	4
WL 102 (E)	Fundamentals of Welding	4
		15
Second Semester	Title	Credit Hours
EN 101	~English Composition I	3
WL 103 (E)	Blueprint Reading and Metallurgy	3
WL 104 (E)	Shielded Metal Arc Welding (SMAW)	3
WL 210	Commercial and Industrial Welding Practices	3
	¹Welding Elective	3
		15

~ Designates courses on the statewide Core Coursework Transfer Agreement.

¹Choose from: WL 201, WL 202, or WL 203.

This degree program provides students the opportunity to receive credit for their high school EDGE courses (http://careertech.k12.wv.us/ edge/edgeCollege.html) as designated by the (E) within the program sequence.

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