



2020-2021 Certificate

Certificate: **INTEGRATED MANUFACTURING (90-620-1)**

Credits: **17 Credits**

Description: This certificate is a combination of information technology (IT) and manufacturing coursework to prepare students for Industry 4.0 employment opportunities. Certificate content includes networking, security, and customer support from the IT area, as well as manufacturing coursework including basic electrical, PLC's, and peripheral devices and robots.

Related Program: Electromechanical Maintenance Technician

Campuses Available: Elkhorn Campus

REQUIRED COURSES

	<u>Semester One</u>	<u>Credits</u>	<u>Prerequisite</u>	<u>Corequisite</u>
✓	620-310 Industrial Controls for Maintenance	2		
☐	150-301 Networking Principles	2		
☐	150-194 Network Security	3		
☐	628-115 Industrial Robotics and Programming	3		
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✓	<u>Semester Two</u>	<u>Credits</u>	<u>Prerequisite</u>	<u>Corequisite</u>
☐	620-311 PLC's and HMI's I	2	620-302 OR 620-310	
☐	154-127 IT Troubleshooting, Intro to	2		
☐	620-303 Motors and Electrical Systems	3	620-302 OR 620-310	
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Total Credits		17		

NOTE: Students must complete a certificate program with a minimum of a 2.0 Program GPA.