

2016-2017Certificate

Certificate: PROGRAMMING FOR MANUFACTURING (90-628-2)

Credits: 17 Credits

Description: This certificate introduces students to basic maintenance functions of

automated manufacturing, including interpretation of engineering drawings, laws of mechanics and principles of physics, physical laws of compression, operation of Programmable Logic Controllers (PLC), and diagnostics, troubleshooting, and interfacing the PLC to other controls, networks, and devices. This certificate leads to careers as maintenance technicians, maintenance supervisors, managers in technically-oriented companies, or industrial technicians. With proper use of electives, all courses in this certificate may be applied to the Automated

Manufacturing Systems Technician associate degree.

Related program: Automated Manufacturing Systems Technician

Campuses Available: Elkhorn, Lakeview and Racine

REQUIRED COURSES

✓	Semester One	Credits	Prerequisite	Corequisite
	605-113 DC/AC I	3		
	620-103 Intro to Industrial Controls	4		605-113
✓	Semester Two	Credits	Prerequisite	Corequisite
	628-100 Automated Manufacturing Concepts/Intro	2		
	628-110 CNC/CAM Programming	3		
✓	Semester Three	Credits	Prerequisite	Corequisite
	620-140 Programmable Controllers	2	602-103	
	628-111 Computer Asst. Prog./Robot and FMS	3		
	Total Credits	17		

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

NOTE: Prerequisites can be waived with departmental approval.