

2015-2016 Internal Certificate

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	<u>Corequisite</u>
	605-113 DC/AC I	3		
	620-103 Intro to Industrial Controls	4		605-113
\checkmark	Semester Two	Credits	<u>Prerequisite</u>	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		