



Internal Certificate **2013-2014**

**Automated Manufacturing Systems Technician
Elkhorn-Lakeview Campuses**

**PROGRAMMING FOR MANUFACTURING
(90-628-2)**

16 Credits

- 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.

REQUIRED COURSES

<u>Course Number</u>	<u>Course Title</u>	<u>Credits</u>	<u>Sequence</u>
804-115	College Technical Math 1 (Prereq. 834-110)	2	1
605-113	DC/AC I	3	1
628-100	Automated Manufacturing Concepts/Intro	2	1
628-110	CNC/CAM Programming	3	2
628-111	Computer Assisted Programming/Robotics & FMS	<u>+ 3</u>	3
		16	

NOTE: Students must complete a certificate program with a minimum of a 2.0 Program GPA.
NOTE: Prerequisites can be waived with departmental approval.