

FACTORY AUTOMATION, ADVANCED CERTIFICATE



College(s): DA

Program Code: 0727

Factory Automation technicians operate, maintain, repair, and install automated production equipment used through manufacturing. Modern production requires digital, programmable skills such as robotic programming, sensor technology, and the use of Programmable Logic Controllers. This certificate provides foundational mechanical and electrical skills for entry-level jobs in maintenance, repair and installation of manufacturing production equipment. Program completers will be employable as a maintenance mechanic trainees or helpers, and building maintenance trainees. Students will also have the opportunity to earn the Manufacturing Skill Standards Council's (MSSC) credential in Maintenance Awareness.

Program Requirements

Code	Title	Hours
Required Program Core		
ENGLISH 101	Composition	3
MATH 125	Introductory Statistics	4
340MFGT 111	Machining Processes I	3
340MFGT 145	Computer Integrated Manufacturing (CIM)	3
340MFGT 151	Introduction to Welding	3
340MFGT 152	Intermediate Welding	3
340MFGT 191	Industrial Electricity	4
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 292	Principles of Mechanisms	3
340MFGT 295	Electrical Motor Controls	3
Total Hours		38