

CNC ENGINEERING TECHNOLOGY, ADVANCED CERTIFICATE



College(s): DA

Program Code: 0448

This program builds on the skills attained in the CNC BC. #Students learn more advanced CNC operational skills, CNC G code programming and Computer Aided Drafting. #Students will have extensive hands on time operating the CNC lathes, mills other CNC machine tools including CNC fabrication equipment to gain confidence in their operation and programming skills. #CNC machining is utilized extensively in industry and operators of this equipment are highly sought after.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153	Welding I GMAW	3
340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
340MFGT 210	Automated Fabrication I	3
Total Hours		30

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 110	CNC I Operations	3
Hours		15
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 153	Welding I GMAW	3
340MFGT 160	CNC II Operations and Programming	3
340MFGT 170	CAD I	3
Hours		12
Semester 3		
340MFGT 210	Automated Fabrication I	3
Hours		3
Total Hours		30

Pathway

This is an **example course sequence** for students interested in pursuing CNC Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology and an Advanced Certificate (AC) in CNC Engineering Technology.