

Precision Machining

Career Studies Certificate

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739-2455

Length: One Semester

Purpose: This program is designed to provide individuals with manual machining concepts, blueprint reading and inspection procedures. Upon completion of this program, graduates will be prepared for employment as a manual lathe or mill operator.

Occupational Objectives: The Precision Machining Career Studies Certificate provides the basic skills necessary to secure an entry level job as a manual machinist. Students develop the basic skills necessary to read blueprints, function as a Lathe Operator, Drill Press Operator, and Milling Machine Operator.

Admission Requirements: General college curricular admission.

Program Notes: Students are strongly encouraged to meet with the program coordinator either before registering for their first semester or early in their first semester of study. Students will be required to furnish clear lens safety glasses, leather work footwear, and proper clothing for working in the lab.

Program Requirements: The curriculum will consist of both hands-on learning and classroom instruction. The program can be completed in one to two semesters and will prepare graduates for entry-level positions. Graduates will also obtain the OSHA-10-hour General Industry safety certification.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits			
First Semester (Fall)							
DRF 161	Blueprint Reading I	1	3	2			
MAC 161	Machine Shop Practices I	2	3	3			
MAC 121	Numerical Control I	1	2	2			
SAF 130	Industrial Safety – OSHA 10	1	0	1			
MAC 116	Machinist Handbook	2	0	2			
MAC 122	Numerical Control II ¹	1	2	2			
MAC 162	Machine Shop Practices II ²	2	3	3			
SDV 101	Orientation to College Success	1	0	1			
Total Credits for Career Studies Certificate			13	16			

Footnotes:

¹Prerequisite: MAC 121

²Prerequisite or Corequisite: MAC 161

Track 2: (Evening)

Course Number	Course Title	Lecture	Lab Hours	Credits
First Semeste	er (Fall)			
MAC 161	Machine Shop Practices I	2	3	3
MAC 121	Numerical Control	1	2	2
SAF 130	Industrial Safety	1	0	1
SDV 101	Orientation to College Success	1	0	1
	Total	5	5	7
Second Seme	ster (Spring)			
DRF 161	Blueprint Reading I	1	3	2
MAC 162	Machine Shop Practices II	2	3	3
MAC 116	Machinist Handbook	2	0	2
MAC 122	Numerical Control II	1	2	2
	Total	6	8	9
Total Credits for Career Studies Certificate		11	13	16