

Machining & Manufacturing Technology

Certificate A

Required Courses: 17 Credit Hours			
Course ID	Course Title	Credit Hours	Notes
IND 100	Safety/OSHA	1	Fall/Spring
IND 103	Workplace Ethics	3	Fall/Spring
MCH 105	Quality Control and Inspection	1	Fall/Spring
MCH 110	Bench Work	1	Fall/Spring
MCH 115	Metallurgy	1	Fall/Spring
MCH 120	Machine Tool Processes	1	Fall/Spring
IND 105	Print Reading	3	Fall/Spring
MCH 130	Machining I	3	Fall/Spring
MCH 135	Machining II	3	Fall/Spring
Total:		17	

Certificate B

Required Courses: 32 Credit Hours			
Course ID	Course Title	Credit Hours	Notes
	**All Certificate Courses Listed Above	17	
MCH 140	CNC Milling I	3	Fall/Spring
MCH 145	CNC Operations	3	Fall/Spring
MCH 150	CNC Lathe	3	Fall/Spring
IND 110	Intro to CAD	3	Fall/Spring
MAT 112	Technical Mathematics	3	Spring

AAS

Required Courses: 13 Credit Hours			
Course ID	Course Title	Credit Hours	Notes
MCH 200	Fundamentals of Robotics	4	Fall
MCH 205	Machining III	3	Fall
MCH 210	Machining Internship	3	Spring
IND 115	Parametric Modeling	3	Fall
General Education Courses: 15 Credit Hours			
Course ID	Course Title	Credit Hours	Notes
COM 211	Interpersonal Communication	3	Fall/Spring
ENG 101	English Composition I	3	Fall/Spring/Summer
	Arts & Humanities Bucket	3	
	Social & Behavioral Bucket	3	
	Institutionally Designated Bucket	3	
Total:		60	

Certificates/AAS in Machining & Manufacturing Technology Semester Plan

Fall	
Course	Credits
Safety/OSHA	1
Workplace Ethics	3
Quality Control and Inspection	1
Bench Work	1
Metallurgy	1
Maching Tool Processes	1
Print Reading	3
Machining I	3
Machining II	3
Total	17

Spring	
Course	Credits
CNC Milling I	3
CNC Operations	3
CNC Lathe	3
Introduction to CAD	3
Technical Mathematics	3
Total	15

Fall	
Course	Credits
Fundamentals of Robotics	4
Machining III	3
Interpersonal Communication	3
English Composition I	3
Arts & Humanities Bucket	3
Total	16

Spring	
Course	Credits
Machining Internship	3
Parametric Modeling	3
Social & Behavioral Bucket	3
Insitutionally Designated Bucket	3
Total	12