

Academic Program Map

Isothermal Community College

Program: Computer-Integrated Machining

Career Cluster(s): Industry

Fall 1

Term	Course ID	Course Name	Credits
1st 8 Weeks	ACA 122	College Transfer Success	1
1st 8 Weeks	MAC 171	Measure/Material and Safety	1
1st 8 Weeks	BPR 111	Print Reading	2
2nd 8 Weeks	ENG 111	Writing and Inquiry	3
2nd 8 Weeks	MAC 121	Introduction to CNC	2
2nd 8 Weeks	DFT 151	CAD I	3
16 Weeks	MAC 141	Machining Applications I	4
16 Weeks	MAC 141A	MacHining Applications I Lab	2

Semester Total: 18 Credits

Spring 1

Term	Course ID	Course Name	Credits
1st 8 Weeks	MEC 110	Introduction to CAD/CAM	2
1st 8 Weeks	COM 231	Public Speaking	3
2nd 8 Weeks	MAC 124	CNC Milling	2
2nd 8 Weeks	MAT 110	Mathematical Measurement and Literacy	3
16 Weeks	MAC 142	Machining Applications II	4
16 Weeks	MAC 142A	Machining Applications II Lab	2

Semester Total: 16 Credits

Summer 1

Term	Course ID	Course Name	Credits
1st 8 Weeks	MAC 113	Machining Technology III	6
1st 8 Weeks	MAC 122	CNC Turning	2
1st 8 Weeks	MAC 126	CNC Metal Fabrication	2

Semester Total: 10 Credits

Fall 2

Term	Course ID	Course Name	Credits
1st 8 Weeks	MAC 222	Advanced CNC Turning	2
1st 8 Weeks	AUT 211	Automotive Machining	4
2nd 8 Weeks	MAC 224	Advanced CNC Milling	2
2nd 8 Weeks	ECO 251	Principles of Microeconomics	3

Semester Total: 11 Credits

Spring 2

Term	Course ID	Course Name	Credits
1st 8 Weeks	HUM 170	The Holocaust	3
1st 8 Weeks	MAC 234A	Advanced Multi-Axis MacHining Lab	1
1st 8 Weeks	MAC 234	Advanced Multi-Axis Machining	3
2nd 8 Weeks	MEC 231	Computer-Aided Manufacturing I	3
16 Weeks	MAC 233	Appl in CNC Machining	6

Semester Total: 16 Credits