



Computer-Integrated Machining (A50210)

2020-21 Curriculum Sheet

Curriculum Coordinator: Calvin Mayo - Office: ABW 108

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Student Name: _____
 Advisor: _____
 Phone: _____

Anticipated Graduation Date: _____
 Email: _____
 Office Location: _____

Fall I							
Prefix	No	Title	Class	Lab	Clinic	Credit	Course Prerequisites
ACA	111	College Student Success	1	0	0	1	None
BPR	111	Blueprint Reading	1	2	0	2	None
ISC	121	Safety Elective	1	2	0	2	None
MAC	121	Intro to CNC	2	0	0	2	None
MAC	141	Machining Applications I	2	6	0	4	None
MAT	110	Math Elective	2	2	0	3	Prerequisites: DMA 010, DMA 020, and DMA 030
Total Recommended Hours			9	12	0	14	

Spring 1							
ENG	111	Writing and Inquiry	3	0	0	3	Prerequisites: DRE 098
MAC	142	Machining Applications II	2	6	0	4	None; MAC 141 is recommended
MAC	151	Machining Calculations	1	2	0	2	None
MAC	114	Intro to Metrology	2	0	0	2	None
MAC	231	CAM: CNC Turning	1	4	0	3	None; MAC 121 is recommended
Total Recommended Hours			9	12	0	14	

Summer I							
MAC	122	CNC Turning	1	3	0	2	None; MAC 121 is recommended
MAC	124	CNC Milling	1	3	0	2	None; MAC 121 is recommended
MEC	110	Intro to CAD/CAM	1	2	0	2	None; MAC 121 is recommended
MEC	142	Physical Metallurgy	1	2	0	2	None
Total Recommended Hours			4	10	0	8	

Fall II							
MAC	143	Machining Appl III	2	6	0	4	MAC141 recommended; Internship:WBL112,122
BPR	121	Blueprint Reading: Mech	1	2	0	2	Prerequisites: for BPR 121 is BPR 111
EGR	125	Appl Software for Technology	1	2	0	2	None
HUM	110	Technology and Society	3	0	0	3	HUM110→None; HUM 115→Local Prerequisites: ENG 111
MAC	232	CAM: CNC Milling	1	4	0	3	None; MAC 121 is recommended
Total Recommended Hours			8	14	0	14	

Spring II							
MAC	228	Advanced CNC Processes	2	3	0	3	30 Credit hours in program recommended
COM	110	Introduction to Communication	3	0	0	3	COM110,COM120,COM231→None; ENG112→ENG 111
MAC	233	Appl in CNC Machining	2	12	0	6	30 Credit hours in program recommended
SOC	210	Introduction to Sociology	3	0	0	3	SOC 210→None; SOC 213→DRE098
Total Recommended Hours			10	15	0	15	
Total Program Hours			65/67				

Program Degree Notes	
Elective 1 - MAT 110 Mathematical Measurement, MAT 121 Algebra/Trigonometry I, or MAT 171 Precalculus Algebra	
Elective 2 - BPR 121 Blueprint Reading: Mechanical, DFT 151 CAD I, or DFT 152 CAD II	
Elective 3 - MAC 143 Machining Appl III, WBL 112 Work-Based Learning I, and WBL 122 Work-Based Learning II	
Elective 4 - HUM 110 Technology and Society or HUM 115 Critical Thinking	
Elective 5 - COM 110 Intro to Communication, COM 120, Intro Interpersonal Com, COM 231 Public Speaking, or ENG 112 Writing/Research in the Disc	
Elective 6 - SOC 210 Introduction to Sociology or SOC 213 Sociology of The Family	
Program's highest developmental courses that MUST be completed	Placement scores determine required courses
DMA 010, 020, 030, 040, 050, & 060 & DRE 096, 097, 098	Score =
Notes:	
Certificates & Diplomas are built into this program of study. Credentials in NIMs are available in this program. See curriculum coordinator for more details.	

Please note that this is a possible semester-by-semester course of study. Any developmental courses such as DMA and DRE courses that are necessary for student placement could extend the time needed for completion. In such cases, graduation may be extended by one or more semester(s). Other delays might be experienced in regard to the timelines of various course offerings.