

Computer Integrated Machining & Manufacturing

CIMM Machining & Manufacturing – Mold Making Emphasis

204004 Revised 10/2020 (Fall 2021)

General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
ENGL 215	Technical Writing	3		ENGL 101
HIST 120 HIST 121 POLS 136	United States History to 1865 or United States History since 1865 or Introduction to U.S. National Politics	3		
Choose one of the following Math options: Option #1 MATH 103 Technical Mathematics I or MATH 120 College Algebra and MATH 104 Technical Mathematics II or MATH 130 Trigonometry Option #2 MATH 150 PreCalculus or higher		5-6		MATH 31 with a grade of S or appropriate placement (MATH 103 and MATH 104) MATH 95 with a grade of C or appropriate placement (MATH 120 and MATH 150) MATH 120 or appropriate placement score (MATH 130)
COMM 100	Fundamentals of Speech	3		ENGL 90 with a minimum grade of S or appropriate placement score.
Minimum Total General Education Credit Hours		17-18		
Special Program Requirements		Credits	Semester Taken	Prerequisites
EHSS 111	Introduction to Health and Safety for General Industry	1		
CIMM 100	Introduction to Machining & Manufacturing	3		
CIMM 104	Metrology	2		
CIMM 105	Introduction to Blueprint Reading	2		
CIMM 106	Geometric Dimensioning and Tolerancing	2		CIMM 105
CIMM 110	Manual Lathe	3		CIMM 100 with a C or better or concurrent enrollment
CIMM 115	Manual Mill	3		CIMM 100 or concurrent enrollment
CIMM 121	CNC Lathe Operation Fundamentals	4		CIMM 110 or concurrent enrollment
CIMM 122	CNC Mill Operation Fundamentals	4		CIMM 115 or concurrent enrollment
CIMM 141	EDM Technologies	3		CIMM 121 or 122
CIMM 154 CIMM 155	Cutter Grinding or Grinding Operations	2-3		CIMM 104, 110 and 115 w/ a C or higher CIMM 100, 105, 110 and 115
CIMM 201	Metallurgy	3		CIMM 100/105/110/115 & CSIS 100 with a grade of C or higher
CIMM 225	MasterCam I	3		CSIS 100, CIMM 121 or 122
CIMM 226	MasterCam II	3		CIMM 225
CIMM 265	Mold Making	5		CIMM 106, 122, 140, 201, 225 and CIMM 154 or 155 with a grade of C or higher
Choose 1 of the following: CIMM 231 Capstone Job Planning, Benchwork & Layout CIMM 232 Capstone Milling CIMM 233 Capstone Chucking CIMM 234 Capstone Turning CIMM 235 Capstone Surface Grinding CIMM 236 Capstone CNC Milling CIMM 237 Capstone CNC Turning CIMM 238 Capstone Drill Press		1		CIMM 100 and 105 (CIMM 231) CIMM 100, 105 and 115 (CIMM 232) CIMM 100, 105 and 110 (CIMM 233) CIMM 100, 105 and 110 (CIMM 234) CIMM 100, 105 and 115 (CIMM 235) CIMM 100, 105 and 122 (CIMM 236) CIMM 100, 105 and 121 (CIMM 237) CIMM 100 and 105 (CIMM 238)
Total Credit Hours Required		61-63		