

Catalog Year 2023-2024

AAS, Computerized Machining Technology

(For internal use only)

🗵 No change

 \square UCC proposal

Requirements including Major, General Education, Ele	000000	, ana a	-			on Catalog Year.
Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co-Requisite
Semester One		P				
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	D-	GE	F, S, Su	The Write Class	
MACH 1110: Machine Tool Lab I (early 8 weeks)	3	D-		F	Minimum score of 14 on ALEKS or equivalent	MACH 1111
MACH 1111: Machine Tool Theory I (early 8 weeks)	2	D-		F		MACH 1110
MACH 1112: Machine Math I (early 8 weeks)	3	D-		F		
MACH 1120: Machine Tool Lab II (late 8 weeks)	3	D-		F		MACH 1121
MACH 1121: Machine Tool Theory II (late 8 weeks)	2	D-		F		MACH 1120
MACH 1123: Blueprint Reading (late 8 weeks)	1	D-		F		
Total	17					
Semester Two						
GE Objective 3: Mathematical Ways of Knowing	3	D-	GE	F, S, Su		
MACH 1115: Applied Machining Geometry (early 8 weeks)	2	D-		S	MACH 1112	
MACH 2221: CAD and CAM Theory I (early 8 weeks)	3	D-		S		MACH 2220
MACH 1131: CNC Mill Setup (early 8 weeks)	2	D-		S	MACH 1120	
MACH 1145: Geometric Dimensioning and Tolerancing I (early 8	1	D-		S	MACH 1123	
weeks)						
MACH 1135: Applied Machining Trigonometry (late 8 weeks)	2	D-		S	MACH 1115	
MACH 1141: CNC Lathe Setup (late 8 weeks)	2	D-		S	MACH 1110	
MACH 2220: CAD and CAM Applications I (late 8 weeks)	3	D-		S		MACH 2221
MACH 2245: Geometric Dimensioning and Tolerancing II (late 8	1	D-		S	MACH 1145	
weeks)						
Total	19					
Semester Three			65	5.6.6		-
GE Objective 6: Social & Behavioral Ways of Knowing	3	D-	GE	F, S, Su		
TGE 1158: Employment Strategies	2	D-		D		
MACH 2270: CNC Programming Practices I (early 8 weeks)	6	D-		F		
MACH 2271: CNC Theory/Programming I (early 8 weeks)	3	D- D-		F	NACU 1125	
MACH 2272: CNC Math I (early 8 weeks) MACH 2275: CAD and CAM Theory II (late 8 weeks)	3	D-		F	MACH 1135 MACH 2220, MACH 2221	
MACH 2275. CAD and CAM Theory II (late 8 weeks) MACH 2280: CAD and CAM Applications II (late 8 weeks)	4	D-		F	MACH 2220, MACH 2221 MACH 2220	MACH 2275
Total	23	D-		- 1	MACH 2220	IVIACH 2275
	23					
Semester Four	2	D-	CE	F C C		
GE Objective 2: COMM 1101 Fundamentals of Oral Communication	3 4	D-	GE	F, S, Su		
GE Objective 5: CHEM, GEOL, or PHYS (theory & lab)	4	D- D-	GE	S	NAACU 2271	
MACH 2281: CNC Programming Theory II (early 8 weeks) MACH 2290: CNC Machining Practice II (early 8 weeks)	3	D- D-		S S	MACH 2271 MACH 2270	MACH 2290 MACH 2281
MACH 2280: CNC Machining Practice II (early 8 weeks) MACH 2285: CAD and CAM Theory III (late 8 weeks)	3	D-			MACH 2270 MACH 2275	MACH 2281 MACH 2291
	4	D-		S S	MACH 2275 MACH 2280	MACH 2291 MACH 2285
MACH 2291: CAD and CAM Applications III (late 8 weeks) Total	4	<u></u> -U-		3	IVIACTI 2280	IVIACH 2285

MAJOR REQUIREMENTS

MACH 1110: Machine Tool Lab I

MACH 1112: Machine Math I

MACH 1111: Machine Tool Theory I

2023-2024 Major Requirements

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GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1 and 2		16 cr. min			
1. Written English (3 cr. min)	ENGL 1101	3			
2. Spoken English (3 cr. min)	COMM 1101	3			
3. Mathematics (3 cr. min)	Any	3			
4. Humanities, Fine Arts, Foreign Lang.					
5. Natural Sciences					
GEOL, CHEM, or PHYS with Lab		4			
6. Behavioral and Social Science					
Any		3			

	5	5. Mathematics (5 cf. IIII	i) Aliy	5			
MACH 1115: Applied Machining Geometry	2	4. Humanities, Fine Arts, Fo	reign Lang.				
MACH 1120: Machine Tool Lab II	3						
MACH 1121: Machine Tool Theory II	2						
MACH 1123: Blueprint Reading	1	5. Natural Sciences					
MACH 1131: CNC Mill Setup	2	GEOL, CHEM, or PHYS with Lab					
MACH 1135: Applied Machining Trigonometry	2			4			
MACH 1141: CNC Lathe Setup	2						
MACH 1145: Geometric Dimensioning and Tolerancing I	1	6. Behavioral and Social Scie					
MACH 2220: CAD and CAM Applications I	3	Any					
MACH 2221: CAD and CAM Theory I	3						
MACH 2245: Geometric Dimensioning and Tolerancing II	1	One Course from EITHER Objective 7 OR 8					
MACH 2270: CNC Programming Practices I	6	7. Critical Thinking					
MACH 2271: CNC Theory/Programming I	3	8. Information Literacy					
MACH 2272: CNC Math I	3	9. Cultural Diversity					
MACH 2275: CAD and CAM Theory II	2						
MACH 2280: CAD and CAM Applications II	4	General Education Elective to reach 36 cr. min. (if n		f necessary)			
MACH 2281: CNC Programming Theory II	1						
MACH 2285: CAD and CAM Theory III	2		Total 0	GE 16			
MACH 2290: CNC Machining Practice II	3	Undergraduate Catalog and GE Objectives by Catalog Year					
MACH 2291: CAD and CAM Applications III	4	http://coursecat.isu.edu/undergraduate/programs/					
TGE 1158: Employment Strategies	2						
Physical Science Course/lab (GEOL, CHEM, PHYS)(Counted in G	E OBJ 5)	MAP Credit Summary		CR			
COMM 1101 Fundamentals of comm (Counted in Gl		Major		60			
		General Education		16			
	Upper Division Free Electives to reach 36		ives to reach 36 credits	0			
		Free Electives to reach 120 credits					
	TOTAL		0 L 76				
		IOTAL					
		Graduation Requirement Minimum Credit Checklist Minimum 36 cr. General Education Objectives (15 cr. AAS)		Confirmed			
				X			
	Minimum 15 cr. Upper Division in Major (0 cr. Associate)		~				
		Minimum 36 cr. Upper Division Overall (0 cr. Associate)					
		winimum of 120 cr. Total (6	Minimum of 120 cr. Total (60 cr. Associate)				
Advising Notes		MAP Completion Status	(for internal use only)				
			Date				
		CAA or COT:	MLH 07/14/2023				
		Complete College Ameri	can Momentum Year				
			in first year-Specific GE MATH co	urse identified			
		_		and identified			
	9 credits in the Major area in first year 15 credits each semester (or 30 in academic year)						
		15 cradits each comestar	(or 20 in acadomic year)				
		15 credits each semester Milestone courses	r (or 30 in academic year)				

CR

60

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