

Catalog Year 2023-2024

ADTC, Computerized Machining Technology

(For internal use only)

oxtimes No change

 \square UCC proposal

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is only one strategy. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Electives, and university requirements (see pg.2) are based on Catalog Year.

Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co-Requisite
Semester One						
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						
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	16					
Semester Three						
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-		F		
MACH 2272: CNC Math I (early 8 weeks)	3	D-		F	MACH 1135	
MACH 2275: CAD and CAM Theory II (late 8 weeks)	2	D-		F	MACH 2220, MACH 2221	
MACH 2280: CAD and CAM Applications II (late 8 weeks)	4	D-		F	MACH 2220	MACH 2275
Total	20					
Semester Four						
GE Objective 2: COMM 1101 Fundamentals of Oral Communication	3	D-	GE	S		
MACH 2281: CNC Programming Theory II (early 8 weeks)	1	D-		S	MACH 2271	MACH 2290
MACH 2290: CNC Machining Practice II (early 8 weeks)	3	D-		S	MACH 2270	MACH 2281
MACH 2285: CAD and CAM Theory III (late 8 weeks)	2	D-		S	MACH 2275	MACH 2291
MACH 2291: CAD and CAM Applications III (late 8 weeks)	4	D-		S	MACH 2280	MACH 2285
Total	13					

GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major

^{**}See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)

ADTC, Computerized Machining Technology				Page 2		
2023-2024 Major Requirements		GENERAL EDUCATION O		6 cr.		
<u> </u>	CR	Satisfy Objectives 1 and		min		
MAJOR REQUIREMENTS	60	1. Written English (3 cr. mir	n) ENGL 1101	3		
MACH 1110: Machine Tool Lab I	3	2 Coolean Facilish /2 on main	n) COMM 1101			
MACH 1111: Machine Tool Theory I MACH 1112: Machine Math I	3	2. Spoken English (3 cr. mir 3. Mathematics	1) COMM TIOI	3		
			union Laura			
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					
MACH 1135: Applied Machining Trigonometry	2					
MACH 1141: CNC Lathe Setup	2					
MACH 1145: Geometric Dimensioning and Tolerancing I	1	6. Behavioral and Social Science	ence			
MACH 2220: CAD and CAM Applications I	3					
MACH 2221: CAD and CAM Theory I	3					
MACH 2245: Geometric Dimensioning and Tolerancing II	1	One Course from EITHER Ob	ojective 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 MACH 2275: CAD and CAM Theory II	3	9. Cultural Diversity				
MACH 2280: CAD and CAM Applications II	4	General Education Elective t	to reach 26 or min			
MACH 2281: CNC Programming Theory II	1	General Education Elective	to reach 30 cr. min.			
MACH 2285: CAD and CAM Theory III	2		Total GE	6		
MACH 2290: CNC Machining Practice II	3	Undergraduate Catalog and	GE Objectives by Catalog Year	<u> </u>		
MACH 2291: CAD and CAM Applications III	4	http://coursecat.isu.edu/under				
TGE 1158: Employment Strategies	2		· · · · · · · · · · · · · · · · · · ·			
ENGL 1101 Writing & Rhetoric I (Counted in		MAP Credit Summary		CR		
COMM 1101 Fundamentals of comm (Counted in GE	GE OBJ 2)	Major		60		
		General Education		6		
		Upper Division Free Electives to reach 36 credits				
		Free Electives to reach 12	20 credits	0		
			TOTAL	66		
		Graduation Requiremen	Confirmed			
		Minimum 36 cr. General Ed	Minimum 36 cr. General Education Objectives (15 cr. AAS)			
		Minimum 15 cr. Upper Division in Major (0 cr. Associate)				
		Minimum 36 cr. Upper Division Overall (0 cr. Associate)				
		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 Americ	can Momentum Year			
		Math and English course in first year-Specific GE MATH course				
		Math and English Course	III III'St year-specific GE MATH cours	se identified		
		The state of the s		se identified		
		9 credits in the Major are		se identified		

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