



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, S	Minimum score of 14 on ALEKS or equivalent	MACH 1111
MACH 1111: Machine Tool Theory I (early 8 weeks)	2	D-		F, S		MACH 1110
MACH 1112: Machine Math I (early 8 weeks)	3	D-		F, S		
MACH 1120: Machine Tool Lab II (late 8 weeks)	3	D-		F, S		MACH 1121
MACH 1121: Machine Tool Theory II (late 8 weeks)	2	D-		F, S		MACH 1120
MACH 1123: Blueprint Reading (late 8 weeks)	1	D-		F, S		
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-		F, S	MACH 1112	
MACH 2221: CAD and CAM Theory I (early 8 weeks)	3	D-		F, S		MACH 2220
MACH 1131: CNC Mill Setup (early 8 weeks)	2	D-		F, S	MACH 1120	
MACH 1145: Geometric Dimensioning and Tolerancing I (early 8 weeks)	1	D-		F, S	MACH 1123	
MACH 1135: Applied Machining Trigonometry (late 8 weeks)	2	D-		F, S	MACH 1115	
MACH 1141: CNC Lathe Setup (late 8 weeks)	2	D-		F, S	MACH 1110	
MACH 2220: CAD and CAM Applications I (late 8 weeks)	3	D-		F, S		MACH 2221
MACH 2245: Geometric Dimensioning and Tolerancing II (late 8 weeks)	1	D-		F, S	MACH 1145	
Total	19					
Semester Three						
GE Objective 6: Social & Behavioral Ways of Knowing	3	D-	GE	F, S, Su		
TGE 1158: Employment Strategies	2	D-		F, S		
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, S	MACH 1135	
MACH 2275: CAD and CAM Theory II (late 8 weeks)	2	D-		F, S	MACH 2220, 2221	
MACH 2280: CAD and CAM Applications II (late 8 weeks)	4	D-		F, S	MACH 2220	MACH 2275
Total	23					
Semester Four						
GE Objective 2: COMM 1101 Fundamentals of Oral Communication	3	D-	GE	F, S		
GE Objective 5: CHEM, GEOL, or PHYS (theory & lab)	4	D-	GE			
MACH 2281: CNC Programming Theory II (early 8 weeks)	1	D-		F, S	MACH 2271	MACH 2290
MACH 2290: CNC Machining Practice II (early 8 weeks)	3	D-		F, S	MACH 2270	MACH 2281
MACH 2285: CAD and CAM Theory III (late 8 weeks)	2	D-		F, S	MACH 2275	MACH 2291
MACH 2291: CAD and CAM Applications III (late 8 weeks)	4	D-		F, S	MACH 2280	MACH 2285
Total	17					

*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.)

