



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						
TGE 0159: Internship Strategies	1	D-		F, S		
ESET 0140: Applied Technical Intermediate Algebra	5	C-		F, D		C- in MATH 0025, a Math ACT score of 18 or higher, an SAT score of 460 or higher, an ALEKS score of 30 or higher, or 35 on the Algebra section (MAPL 2).
ESET 0100: Engineering Technology Orientation	1	C-		F, S, D		ESET 0100L
ESET 0100L: Engineering Technology Orientation Laboratory	1	C-		F, S, D		ESET 0100
ESET 0121: Basic Electricity and Electronics	4	C-		F, D		ESET 0121L
ESET 0121L: Basic Electricity and Electronics Lab	3	C-		F, D		ESET 0121
ESET 0123: Mechanical Power Transmission	2	C-		S, D	Permission of instructor	ESET 0123L
ESET 0123L: Mechanical Power Transmission Lab	1	C-		S, D	Permission of instructor	ESET 0123
ESET 0125: Introduction to Structural Welding	1	C-		F, D		
Total	19					
Semester Two						
GE Objective 5: PHYS 1101/L or CHEM 1100	4	D-	GE	F, S		
GE Objective 2: COMM 1101	3	D-	GE	F, S		
GE Objective 3: MATH 1143 or MATH 1153 or MATH 1160 or MATH 1170	3-4	D-	GE	F, S, Su		
ESET 0122: Electrical Systems and Motor Control Theory	3	C-		S, D	ESET 0121, 0121L	ESET 0122L
ESET 0122L: Electrical Systems and Motor Control Lab	1	C-		S, D	ESET 0121, 0121L	ESET 0122
ESET 0126: Intro to Mechanical Drafting and Computer Aided Design	1	C-		S, D		
ESET 0127: Mechanical Power Transmission II	2	C-		S, D	ESET 0121, 0121L, 0123, 0123L, 0140, or permission	ESET 0127L
ESET 0127L: Mechanical Power Transmission II Lab	2	C-		S, D	ESET 0121, 0121L	ESET 0127
Total	19-20					
Semester Three						
GE Objective 6: Social & Behavioral Ways of Knowing	3	D-	GE	F, S		
ESET 0220: Thermal Cycles and Heat Transfer	2	C-		F, D	ESET 0102 or 0122, or permission	
ESET 0239: Pumps, Valves, and Fluid Flow	5	C-		F, D	ESET 0127, 0127L	ESET 0239L
ESET 0239L: Pumps, Valves, and Fluid Flow Lab	4	C-		F, D	ESET 0127, 0127L	ESET 0239
ESET 0242: Practical Process Measurements and Control	2	C-		F, D	ESET 0122 or permission	
ESET 0245: Fundamentals of Heat Exchangers and Boilers	3	C-		S, D	ESET 0140 or MATH 1108 or permission	
Total	19					
Semester Four						
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	D-	GE	F, S		
ESET 0221: Boiler Reactor and Turbine Principles	2	C-		S, D	ESET 0102 or 0122, or permission	
ESET 0243: Hydraulic and Pneumatic Power	2	C-		S, D	ESET 0127, 0127L	ESET 0243L
ESET 0243L: Hydraulic and Pneumatic Power Lab	2	C-		S, D	ESET 0127, 0127L	ESET 0243
ESET 0244: Rotating Equipment and Millwright Maint.	4	C-		S, D	ESET 0127	ESET 0244L
ESET 0244L: Rotating Equipment and Millwright Maint. Lab	3	C-		S, D	ESET 0127	ESET 0244
ESET 0246: Materials and Metallurgy	2	C-		S, D		
Total	18					

*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.)

