

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
<b>Semester One</b>						
GE Objective 1: ENGL 1101 Writing and Rhetoric I	3	D-	GE	F,S,Su		
GE Objective 2: COMM 1101 Fundamentals of Oral Comm	3	D-	GE	F, S		
ESET 0100: Engineering Technology Orientation	1	C-		F, S, D		
ESET 0100L: Engineering Technology Orientation Lab	1	C-		F, S, D		
ESET 0140: Applied Technical Intermediate Algebra <b>(Recommended)</b> ; or MATH 1143: Intermediate Algebra	3-5	C-		F, S, 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	ESET 0101 or ESET 0121
ESET 0152: Nuclear Careers and Information	1	C-		F, S	2 credits required for graduation (take 2 times, 1 credit each 1 <sup>st</sup> and 4 <sup>th</sup> Semester)	
ESET 0153: Radiological Control Fundamentals	3	C-		F, D		
<b>Total</b>	<b>15-17</b>					
<b>Semester Two</b>						
GE Objective 1: ENGL 1102: Writing and Rhetoric II	3	D-	GE	F,S,Su	ENGL 1101 or ENGL 1101P	
GE Objective 3: MATH 1153 (Recommended) or 1160 or 1170 (Recommended) *See Advisor*	3-4	D-	GE	F, S, Su		
ESET 0121: Basic Electricity and Electronics	4	C-		F, S		ESET 0121L
ESET 0121L: Basic Electricity and Electronics Laboratory	3	C-		F, S		ESET 0121
ESET 0130: Initial Operator Training and Student Operations	4	C-		S, D	MATH 1143 or current ALEKS score of 60	
<b>Total</b>	<b>17-18</b>					
<b>Semester Three</b>						
GE Objective 5: CHEM 1101 or CHEM 1111/L (Recommended)	3-5	D-	GE	F,S,Su		
ESET 0122: Electrical Systems and Motor Control	3	C-		F, S, D	ESET 0121, ESET 0121L, or permission	ESET 0122L
ESET 0122L: Electrical Systems and Motor Control Laboratory	1	C-		F, S, D	ESET 0121, ESET 0121L, or permission	ESET 0122
ESET 0220: Thermal Cycles and Heat Transfer	2	C-		F, D		ESET 0239
ESET 0239: Pumps, Valves, and Fluid Flow	5	C-		F, D	ESET 0127, 0127L; or ESET 0130; or ESET 0151, 0151L	ESET 0239L, ESET 0122L
ESET 0239L: Pumps, Valves, and Fluid Flow Lab	4	C-		F, D	ESET 0127, 0127L; or ESET 0130; or ESET 0151, 0151L	ESET 0239
<b>Total</b>	<b>18-20</b>					
<b>Semester Four</b>						
GE Objective 4: TGE 1257 (Recommended), PHIL 1101, or PHIL 1103	3	D-	GE	F, S, D		
GE Objective 5: PHYS 1101/1101L	4	D-	GE	F, S		
GE Objective 6	3	D-	GE	F,S,Su		
ESET 0152: Nuclear Careers and Information	1	C-		F, S, D	2 credits required for graduation (take 2 times, 1 credit each 1 <sup>st</sup> and 4 <sup>th</sup> Semester)	
ESET 0221: Nuclear Steam Supply Systems	2	C-		S	ESET 0102 or 0122; ESET 0220; or permission	
ESET 0249: Reactor Plant Materials	3	C-		S, D	ESET 0151 or 0130; ESET 0239; CHEM 1101 or CHEM 1111/L; or permission	
ESET 0260: Nuclear Instrumentation	2	C-		S, D	ESET 0130	
<b>Total</b>	<b>18</b>					
<b>Semester Five</b>						
ESET 0242: Practical Process Measurements and Control	2	C-		F, D	ESET 0122 or permission of instructor	
ESET 0248: Power Plant Documentation and Procedures	2	C-		F, D	ESET 0151 or ESET 0130 or permission	
ESET 0251: Reactor Theory Safety and Design	4	C-		F, D	ESET 0130, 0221, 0239, 0249, 0261, or permission	ESET 0248
ESET 0279: Conduct of Operations	4	C-		S, D	ESET 0151, 0151L, 0130, or permission	
ESET 0280: Capstone and Case Studies in Nuclear Engineering Technology	2	C-		S, D	ESET 0151, 0151L, or ESET 0130; ESET 0153, 0220, 0249	ESET 0248, ESET 0279
<b>Total</b>	<b>14</b>					

\*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.)

