

## PRE-ENGINEERING MAJOR (Odd year, Calculus) Four Year Plan

This is a suggested program guide. It is not to be interpreted as a contract. Changes may occur. Please see your program advisor before you register for courses. Updated 8/23

BENV100 Becoming a Scholar			
	3	Writing Well Competency	3
CEM 121 General Inorganic Chemistry 1	5	CEM 122 General Inorganic Chemistry 2	5
CPS 108 Computer Programming	3	PHY 150 Engineering Seminar	1
MAT 135 Calculus I	5	MAT 136 Calculus 2	5
Total	16	Total	14
BENV200 Learning in Community	5	Speaking & Listening Competency	3
Living Well Competency	2	Creative Expression Competency	3
PHY 211 Physics for Science/Engineer.	5	Reading the Bible Competency	3
MAT 225 Multivariate Calculus	3	PHY 212 Physics for Science/Engineering 2	5
Total	15	Total	14
Understanding Self and Society Competency	3	Electives	9
Exploring the Past Competency	3	BENV300 Cross-cultural Experience	3
Electives *PHY 360 Linear Electronics Total	6	*PHY 375 Analytical Mechanics	3
	4	Total	15
	16		
Religious Understanding Competency	3	Electives	10
Electives	6	BENV400 Enduring Values Capstone	2
*MAT 350 Differential Equations	3	*PHY 340 Engineering Statics	3
PHY 326 Therm/Mod/Nucl/Quan Physics 1	5	Total	15
Total	17		
	CPS 108 Computer Programming MAT 135 Calculus I Total BENV200 Learning in Community Living Well Competency PHY 211 Physics for Science/Engineer. MAT 225 Multivariate Calculus Total Understanding Self and Society Competency Exploring the Past Competency Electives *PHY 360 Linear Electronics Total Religious Understanding Competency Electives *MAT 350 Differential Equations PHY 326 Therm/Mod/Nucl/Quan Physics 1	CPS 108 Computer Programming MAT 135 Calculus I3MAT 135 Calculus I5Total16BENV200 Learning in Community Living Well Competency5PHY 211 Physics for Science/Engineer.5MAT 225 Multivariate Calculus Total3Total15Understanding Self and Society Competency Exploring the Past Competency Electives3PHY 360 Linear Electronics Total4Total16Religious Understanding Competency Electives3Religious Understanding Competency Electives3PHY 350 Differential Equations PHY 326 Therm/Mod/Nucl/Quan Physics 15	CPS 108 Computer Programming MAT 135 Calculus I Total3PHY 150 Engineering Seminar MAT 136 Calculus 2 TotalBENV200 Learning in Community Living Well Competency PHY 211 Physics for Science/Engineer. MAT 225 Multivariate Calculus Total5Speaking & Listening Competency Creative Expression Competency Reading the Bible Competency PHY 212 Physics for Science/Engineering 2 TotalUnderstanding Self and Society Competency Exploring the Past Competency Electives3Electives *PHY 360 Linear Electronics TotalReligious Understanding Competency Electives3Electives *PHY 350 Differential Equations PHY 326 Therm/Mod/Nucl/Quan Physics 13

124 total hours to complete graduation requirements (this includes 2 hours of arts and lecture credit) \*Alternate year courses

Bold face print denotes major course requirement

The Scientific Inquiry and Critical Analysis Competencies are met by the major.