

**PRE-ENGINEERING MAJOR  
 (Odd year, Pre-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 9/24

YEAR	FALL	SPRING
First Year	BENV100 Becoming a Scholar 3 <b>CEM 121 General Inorganic Chemistry 1</b> 5 <b>CPS 108 Computer Programming</b> 3 MAT 114 Pre-calculus 4 Total 15	Writing Well Competency 3 <b>CEM 122 General Inorganic Chemistry 2</b> 5 <b>PHY 150 Engineering Seminar</b> 1 Living Well Competency 2 <b>MAT 135 Calculus I</b> 5 Total 16
Second Year	BENV200 Learning in Community 5 Speaking and Listening Competency 3 Creative Expression Competency 3 <b>PHY 211 Physics for Science/Engineer.</b> 5 Total 16	Reading the Bible Competency 3 Understanding Self and Society Competency 3 <b>PHY 212 Physics for Science/Engineering 2</b> 5 <b>MAT 136 Calculus 2</b> 5 Total 16
Third Year	Exploring the Past Competency 3 Electives 9 <b>*PHY 360 Linear Electronics</b> 4 Total 16	Electives 6 BENV300 Cross-cultural Experience 3 <b>*PHY 375 Analytical Mechanics</b> 3 <b>MAT 225 Multivariate Calculus</b> 3 Total 15
Fourth Year	Religious Understanding Competency 3 Electives 3 <b>*MAT 350 Differential Equations</b> 3 <b>PHY 326 Therm/Mod/Nuclr/Quant Physics 1</b> 5 Total 14	Electives 9 BENV400 Enduring Values Capstone 2 <b>*PHY 340 Engineering Statics</b> 3 Total 14

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.