

PRE-ENGINEERING MAJOR (Even 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

| YEAR | FALL | SPRING |
|-------------|---|---|
| First Year | BENV100 Becoming a Scholar 3 CEM 121 General Inorganic Chemistry 1 5 CPS 108 Computer Programming 3 MAT 135 Calculus I 5 Total 16 | Writing Well Competency 3 CEM 122 General Inorganic Chemistry 2 5 PHY 150 Engineering Seminar 1 MAT 136 Calculus 2 5 Total 14 |
| Second Year | BENV200 Learning in Community 5 Living Well Competency 2 PHY 211 Physics for Science/Engineer. 5 MAT 225 Multivariate Calculus 3 Total 15 | Speaking & Listening Competency 3 Creative Expression Competency 3 Reading the Bible Competency 3 PHY 212 Physics for Science/Engineering 2 5 Total 14 |
| Third Year | Understanding Self and Society Competency 3 Exploring the Past Competency 3 Electives 6 *MAT 350 Differential Equations 3 Total 15 | Electives 9 BENV300 Cross-cultural Experience 3 *PHY 375 Analytical Mechanics 3 Total 15 |
| Fourth Year | Religious Understanding Competency 3 Electives 5 *PHY 360 Linear Electronics 4 PHY 326 Therm/Mod/Nucl/Quan Physics 1 5 Total 17 | Electives 11 BENV400 Enduring Values Capstone 2 *PHY 340 Engineering Statics 3 Total 16 |

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.