

PHYSICS MAJOR

Four Year Plan for students starting in odd years

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 1 5 Total 16	Writing Well Competency 3 Speaking and Listening Competency 3 CEM 122 General Inorganic Chemistry 2*** 5 MAT 136 Calculus 2 5 Total 16
Second Year	Living Well Competency 2-3 Reading the Bible Competency 3 BENV200 Learning in Community 5 PHY 211 Physics for Science/Engineering 1*** 5 Total 15-16	Creative Expression Competency 3 Exploring the Past Competency 3 Understanding Self & Society Competency 3 PHY 212 Physics for Science/ Engineering 2*** 5 Total 14
Third Year	Electives 12 PHY 360 Linear Electronics* 4 (PHY 365 Electricity and Magnetism** 3) Total 16	Electives 7 BENV300 Cross-cultural Experience 3 PHY 202 Astronomy* 4 Total 14
Fourth Year	Religious Understanding Competency 3 Elective 9 (PHY 375 Analytical Mechanics** 3) PHY 326 Thermal/Modern/Nuclear/Quantum 1* 5 Total 17	Electives 7 BENV400 Enduring Values Capstone 2 PHY 327 Thermal/Modern/Nuclear/Quantum 2* 5 (PHY 370 Quantum Mechanics** 3) (PHY 390 Independent Study** 1-3) Total 14

124 total hours to complete graduation requirements (this includes 2 hours of arts and lecture credit)

Boldface print denotes major course requirement

*Alternate year courses

**Courses taught as Directed Study or Independent Study. These count as electives.

***Students in the physics calculus track can enroll in physics their first year and chemistry their second year (with approval from their PHY 211 course instructor).

() Electives recommended for students interested in graduate school or engineering programs.

The following courses are strongly recommended as electives

CPS 320	Numerical Analysis* (3)
MAT 225	Multivariate Calculus (3)
MAT 230	Linear Algebra (3)
MAT 350	Differential Equations and Modeling* (3)

Note: The Scientific Inquiry and Critical Analysis competencies are met in the major.