

COLLEGE OF LETTERS AND SCIENCES Major Planning Guide PHYSICS ENGINEERING EMPHASIS major, Bachelor of Science – minor required

Not an official document. Refer to Advising Report for full requirements.

Sample Advising Reports available on-line at http://www.uww.edu/registrar/ars/index.html

Major Planning Guides are sample programs which illustrate the type of curriculum a student will take to complete the degree in 4 years.

All students must complete a minimum of 120 credits including

- 1) at least 32 units of general education, including specific GenEd courses, as well as approved math and science, physical education and elective courses.
- 2) requirements for the BA or BS degree
- 3) requirements for the major and for the minor (an approved minor is required for this major)
- *ACT/SAT scores determine which Math and English course is appropriate for you. Refer to your AR for this information and then adjust this schedule accordingly. The Planning Guide begins with the most common placement for this major, Calculus and Analytical Geometry 1.

**The Bachelor of Science requires two lab sciences and 5 credits of advanced math or 3 of math and 3 of computer science.

The following table represents a typical 4-year plan for a Physics major who wants to pursue an engineering career. This 4-year plan fulfills the requirements for a Bachelor of Science, a Physics major and a Mathematics minor, as well as the General Education courses required by the University for graduation. Other minors are also available. You may wish to view a table of course requirements to compare the physics coursework required for each of the four emphases of the physics major.

Courses in **Bold** indicate specific courses that must be completed for the major. Other courses such as GenEd Courses or major/minor electives can be selected from a number of course choices.

PHYSCS 180 Physics for Scientists and Engineers I - 5 units PHYSCS 190 Frontiers of Engineering and Physics - 1 unit MATH 253 Calculus and Analytic Geometry II - 5 units Intrauniv 104 - Freshman Seminar - 1 unit English 101* Freshman English - 3 units Semester 1: 15 units Semester 2: 16 units Semester 2: 16 units Semester 3: 15 units PHYSCS 310 Mechanics: Dynamics - 3 units PHYSCS 221 Intermediate Laboratory - 2 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Intermediate Laboratory - 2 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 305 Mechanics: Statics - 3 units PHYSCS 306 Theoretical Physics - 3 units MATH 355 Matrices and Linear Algebra - 3 units MATH 255 Calculus and Analytic Geometry III - 3 units GenEd 120 or 140 Global or Historical Perspectives - 3 units Semester 1: 15 units Semester 1: 15 units PHYSCS 364 Thermal Physics - 3 units PHYSCS 365 Classical Electromagnetism - 3 units MATH 361 Differential Equations - 3 units PHYSCS 364 Thermal Physics - 3 units Chemistry 102 Introductory Chemistry I - 5 units PHYSCS 364 Thermal Physics - 3 units Chemistry 102 Introductory Chemistry I - 5 units Semester 1: 15 units PHYSCS 369 Seponal Health and Fitness - 1 unit Semester 1: 15 units PHYSCS 360 Optics - 4 units PHYSCS 489 Senior Seminar - 2 units PHYSCS 489 Senior Seminar - 2 units PHYSCS 496 Special Topics: Digital Logic - 3 units MATH 459 Partial Differential Equations - 3 units (for Math minor) English 102* Freshman English - 3 units English 102* Freshman English - 3 units English 102* Freshman English - 3 units PHYSCS 310 Mechanics: Dynamics - 3 units PHYSCS 310 Mechanics: Dynamics - 3 units Semester 2: 16 units Semester 2: 16 units Semester 3: 15 units PHYSCS 310 Mechanics: Dynamics - 3 units Chemistry 104 Global or Historical Perspectives - 3 units	Freshman Year	
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