



**COLLEGE OF LETTERS AND SCIENCES Major Planning Guide
PHYSICS 3-2 Plan**

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>

This table represents a 3 year plan for a student who wants to pursue an engineering career using the 3-2 program to begin at UW-Whitewater and finish at either UW-Madison or UW-Milwaukee. This 3 year plan should fulfill the requirements needed to transfer (for the 3-2 program) as well as the GenEd requirements for UW-Whitewater, however the 3-2 agreements determine the exact course requirements.

*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.

Courses in **Bold** indicate specific courses that must be completed for the major. Some of the other courses such as GenEd Courses and electives may be selected from a number of course choices.

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| Freshman Year | |
| PHYSCS 180 Physics for Scientists and Engineers I - 5 units | PHYSCS 181 Physics for Scientists and Engineers II - 5 units |
| PHYSCS 190 Frontiers of Engineering and Physics - 1 unit | MATH 254 Calculus and Analytic Geometry II - 5 units |
| MATH 253 Calculus and Analytic Geometry I - 5 units | GenEd 130 Individual and Society - 3 units |
| GenEd 110 World of the Arts - 3 units | English 102* Freshman English - 3 units |
| English 101* Freshman English - 3 units | PEGRNL 192 Personal Health and Fitness - 1 unit |
| Semester 1: 17 units | Semester 2: 17 units |
| Sophomore Year | |
| PHYSCS 190 Frontiers of Engineering and Physics - 1 unit | PHYSCS 310 Mechanics: Dynamics - 3 units |
| PHYSCS 305 Mechanics: Statics – 3 units | CompSci 172, 174 or 347 - 3 units |
| PHYSCS 324 Methods of Theoretical Physics – 3 units | Chemistry 104 Introductory Chemistry II - 5 units |
| MATH 255 Calculus and Analytic Geometry III – 3 units | English 370 Adv Composition – 3 units |
| Chemistry 102 Introductory Chemistry I – 5 units | GenEd 120 or 140 Global or Historical Perspectives - 3 units |
| Semester 1: 15 units | Semester 2: 17 units |
| Junior Year | |
| PHYSCS 221 Intermediate Laboratory – 2 units | PHYSCS 325 Classical Electromagnetism - 3 units |
| PHYSCS 489 Senior Seminar – 2 units | PHYSCS 330 Analog & Digital Electronics – 3 units |
| MATH 355 Linear Algebra – 3 units | PHYSCS 331 Analog & Digital Electronics Lab – 1 unit |
| MATH 361 Differential Equations - 3 units | PHYSCS 344 Modern Physics - 4 units |
| MATH 280 Discrete Mathematics – 3 units | GenEd 390 World of Ideas – 3 units |
| GenEd Elective (student choice – not economics) – 3 units | Diversity/GenEd Elective (student choice) – 3 units |
| Semester 1: 16 units | Semester 2: 17 units |