



UNIVERSITY OF WISCONSIN  
**WHITEWATER**

**Sample 3 Year Plan (Fall 2015 Requirements)  
 Physics, 3-2 Plan  
 Bachelor of Science, COLLEGE OF LETTERS AND SCIENCES**

This 3 year Plan illustrates the type of curriculum a new freshman would take. See page 2 for transfer information unique to the 3-2 program. Refer to Academic Advising Report for full requirements.

Sample Academic Advising Reports are available on-line at

<http://www.uww.edu/registrar/sample-aars-and-ars/sample-aars-undergraduate>.

1 <sup>st</sup> Semester	Units	2 <sup>nd</sup> Semester	Units
Physics 180 Physics for Scientists & Engineers I	5	Physics 181 Physics for Scientists & Engineers II	5
Physics 190 Frontiers of Engineering & Physics	1	Math 254 Calculus & Analytical Geometry II	5
Math 253 Calculus & Analytical Geometry I	5	GENED Core	3
GENED Core	3	English 102 Freshman English	3
English 101 Freshman English	3	PEGNRL Personal Health & Fitness	1
Semester Total	17	Semester Total	17
3 <sup>rd</sup> Semester	Units	4 <sup>th</sup> Semester	Units
Physics 190 Frontiers of Engineering & Physics	1	Physics 310 Mechanics: Dynamics	3
Physics 305 Mechanics: Statistics	3	CompSci 172 OR CompSci 174 OR CompSci 347	3
Physics 324 Methods of Theoretical Physics	3	Chemistry 104 Intro to Chemistry II	5
Math 255 Calculus & Analytical Geometry III	3	English 370 Advanced Composition	3
Chemistry 102 Intro to Chemistry I	5	GENED Core	3
Semester Total	15	Semester Total	17
5 <sup>th</sup> Semester	Units	6 <sup>th</sup> Semester	Units
Physics 221 Intermediate Laboratory	2	Physics 325 Classical Electromagnetism	3
Physics 489 Senior Seminar	2	Physics 330 Analog & Digital Electronics	3
Math 355 Linear Algebra	3	Physics 331 Analog & Digital Electronics Lab	1
Math 361 Differential Equations	3	Physics 344 Modern Physics	4
Math 280 Discrete Mathematics	3	Gened 390 World of Ideas	3
General Ed Elective (Not from Economics Dept.)	3	U.S. Racial & Ethnic Diversity OR General Ed Elective	3
Semester Total	16	Semester Total	17

Department Website: <http://www.uww.edu/cls/physics>

**Transfer students** may have different general education requirements than those listed. Refer to your Advising Report for requirements specific to you.

## General Degree Notes

You must begin your Math and English sequences with the appropriate course. The English course you start with will be determined by your ACT/SAT score. The Math course you start with will be determined by your UW Math Placement score or AP Calculus results. Please refer to your Academic Advising Report and adjust the sample 4 year plan accordingly.

All students must complete a minimum of 120 credits including:

- 1) At least 32 units of general education, including specific Gen Ed core courses, as well as approved math and science, physical education, and elective courses. Your general education electives must come from the following categories: GA, GS, GH, GE, or GI.
- 2) All requirements for the BA or BS Degree.
- 3) All requirements for the major and minor (if required).

## College of Letters and Sciences Degree Notes

This plan includes Bachelor of Science (BS) requirements. For the BS, students must complete two lab sciences **and** 5 credits of advanced math or two 3 credit courses chosen from advanced math, statistics or computer science instead of the BA requirements.

A Bachelor of Arts (BA) is also available. For the BA, students must demonstrate that they have achieved basic competency in a foreign language equivalent to one year of study at the college level. Students must also complete two 300/400 level courses outside of the major and minor subjects.

## Major Notes

**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.**

The Planning Guide begins with the most common placement for this major but students who place lower may need additional math credits.

Courses in **bold** typeface indicate specific courses that must be completed for the major.