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 4-year plan for a student intending to pursue graduate study in physics or a related field. 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.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSCS 180 Physics for Scientists and Engineers I - 5 units</td>
<td>PHYSCS 181 Physics for Scientists and Engineers II - 5 units</td>
<td>PHYSCS 364 Classical Electromagnetism - 3 units</td>
<td>PHYSCS Electives – 5 units (if not taken earlier)</td>
</tr>
<tr>
<td>PHYSCS 190 Frontiers of Engineering and Physics - 1 unit</td>
<td>MATH 254 Calculus and Analytic Geometry II - 5 units</td>
<td>PHYSCS 325 Classical Electromagnetism - 3 units</td>
<td>PHYSCS 459 Partial Differential Equations - 3 units (for Math minor)</td>
</tr>
<tr>
<td>MATH 253 Calculus and Analytic Geometry I - 5 units</td>
<td>GenEd 110 World of the Arts - 3 units</td>
<td>CHEM 102 Introductory Chemistry I - 5 units</td>
<td>Electives (GenEd, PHYSCS, if needed) - 6 units</td>
</tr>
<tr>
<td>Intrauniv 104 - Freshman Seminar - 1 unit</td>
<td>English 102* Freshman English - 3 units</td>
<td>CHEM 104 Introductory Chemistry II - 5 units</td>
<td>Electives (GenEd, if needed) – 7- units</td>
</tr>
<tr>
<td>English 101* Freshman English - 3 units</td>
<td>Semester 1: 15 units</td>
<td>GENED 130 Individual and Society - 3 units</td>
<td>Elected courses, as well as approved math and science, physical education and elective courses.</td>
</tr>
<tr>
<td>Semester 2: 16 units</td>
<td>COMM 110 Fundamentals of Speech - 3 units</td>
<td>Semester 1: 16 units</td>
<td>Electives (GenEd, PHYSCS, if needed) - 6 units</td>
</tr>
</tbody>
</table>

Updated 2019 1030 pf

Department Website: [http://www.uww.edu/cls/departments/physics](http://www.uww.edu/cls/departments/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**

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.