Study Program for a BS degree

*Note: this program is for students who start *Calculus I* in their first semester.*

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall semester</th>
<th>Spring Semester</th>
</tr>
</thead>
</table>
| **Freshman** | Math 1500: Calculus I (5)  
Chem 1320: College Chem I (3)  
Phys 2800: Undergraduate Physics Seminar (2)  
English 1000: English Composition and Writing (3) | Math 1700: Calculus II (5)  
Phys 2750: University Physics I (5)  
Foreign Language I (5) or  
General Education Electives (3) |
| **Sophomore** | Math 2300: Calculus III (3)  
Phys 2760: University Physics II (5)  
Foreign Language II (5) or  
General Education Electives (6) | Math 4100: Differential Equations (3)  
Phys 3150: Introduction to Modern Physics (3)  
Physics Elective (3)  
Foreign Language III (3) or  
General Education Electives (3) |
| **Junior** | Phys 4140: Mechanics (3)  
Phys 4060: Advanced Physics Lab (3)  
Physics Elective (3)  
Math Elective (3)  
General Education Electives (3) | Phys 4100: Electricity and Magnetism I (3)  
Phys 4120: Intro to Thermodynamics (3)  
Physics Elective (3)  
Math Elective (3)  
General Education Electives (3) |
| **Senior**  | Phys 4800: Quantum Mechanics I (3)  
Physics Problems/Research or  
Physics Elective (3)  
General Education Electives (3) | Physics Elective (3)  
Physics Elective (3)  
Physics Problems/Research |
### Study program for a BS degree

*Note: this program is for students who start *Calculus II* in their first semester.*

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall semester</th>
<th>Spring Semester</th>
</tr>
</thead>
</table>
| **Freshman** | **Math 1700: Calculus II (5)**  
|          | Phys 2750: University Physics I (5)  
|          | Phys 2800: Undergraduate Physics Seminar (2)  |  
|          | Math 2300: Calculus III (3)  
|          | Phys 2760: University Physics II (5)  
|          | English 1000: English Composition and Writing (3)  
|          | General Education Electives (3)  |
| **Sophomore** | **Math 4100: Differential Equations (3)**  
|          | Phys 3150: Introduction to Modern Physics (3)  
|          | Physics Elective (3)  
|          | Foreign Language I (5) or General Education Electives (3)  |  
|          | Phys 4100: Electricity and Magnetism I (3)  
|          | Phys 4120: Intro to Thermodynamics (3)  
|          | Physics Elective (3)  
|          | Chem 1320: Chemistry II (3)  
|          | Foreign Language II (5) or General Education Electives (3)  |
| **Junior** | Phys 4140: Mechanics (3)  
|          | Phys 4060: Advanced Physics Lab (3)  
|          | Math Elective (3)  
|          | Foreign Language III (3) or General Education Electives (3)  |  
|          | Physics Problems/Research or Physics Elective (6-9)  
|          | Math Elective (3)  
|          | General Education Electives (3)  |
| **Senior** | Phys 4800: Quantum Mechanics I (3)  
|          | Physics Problems/Research or Physics Elective (3-6)  
|          | General Education Electives (3)  |  
|          | Physics Capstone  
|          | Physics Problems/Research  
|          | Physics Elective (3)  |

*Note: students can select one from the following courses for the capstone requirement:*

- Phys 4810: Quantum Mechanics II (3)
- Phys 4985: Issues in Modern Physics and Technology (3)
- Physics/Astronomy 4960: Senior Thesis (3)
Study program for a BA degree

*Note: this program is for students who start *Calculus I* in their first semester.*

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<tr>
<th>Year</th>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>Freshman</td>
<td><strong>Math 1500: Calculus I (5)</strong>&lt;br&gt;Chem 1320: Chemistry II (3)&lt;br&gt;Phys 2800: Undergraduate Physics Seminar (2)&lt;br&gt;<em>English 1000: English Composition and Writing (3)</em></td>
<td><strong>Math 1700: Calculus II (5)</strong>&lt;br&gt;Phys 2750: University Physics I (5)&lt;br&gt;<em>General Education Electives (3)</em></td>
</tr>
<tr>
<td>Sophomore</td>
<td><strong>Math 2300: Calculus III (3)</strong>&lt;br&gt;Phys 2760: University Physics II (5)&lt;br&gt;<em>Foreign Language I (5)</em></td>
<td><strong>Math 4100: Differential Equations (3)</strong>&lt;br&gt;Phys 3150: Introduction to Modern Physics (3)&lt;br&gt;*Foreign Language II (5)&lt;br&gt;<em>General Education Electives (3)</em></td>
</tr>
<tr>
<td>Junior</td>
<td><strong>Phys 4080: Major Themes in Classical Physics (3)</strong>&lt;br&gt;Physics Elective (3)&lt;br&gt;*Foreign Language III (2)&lt;br&gt;<em>General Education Electives (6)</em></td>
<td><strong>Physics Electives (6)</strong>&lt;br&gt;<em>General Education Electives (6)</em></td>
</tr>
<tr>
<td>Senior</td>
<td><strong>Physics Problems/Research or Physics Elective (3-6)</strong>&lt;br&gt;<em>General Education Electives (6)</em></td>
<td><strong>Physics Problems/Research or Physics Elective (3-6)</strong>&lt;br&gt;<em>General Education Electives (3-6)</em></td>
</tr>
</tbody>
</table>

*Students must start with Calculus I course (if eligible to take it) in order to stay on track with all the required courses.*