# PREMEDICINE, CERTIFICATE

## Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>BIOL_SCI 201-CN</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>BIOL_SCI 202-CN</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>BIOL_SCI 203-CN</td>
<td>Genetics and Evolution</td>
</tr>
<tr>
<td>BIOL_SCI 232-CN</td>
<td>Molecular and Cellular Processes Laboratory</td>
</tr>
<tr>
<td>BIOL_SCI 233-CN</td>
<td>Genetics and Molecular Processes Laboratory</td>
</tr>
<tr>
<td>BIOL_SCI 234-CN</td>
<td>Investigative Laboratory</td>
</tr>
<tr>
<td>BIOL_SCI 308-CN</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>CHEM 110-CN</td>
<td>Quantitative Problem Solving in Chemistry</td>
</tr>
<tr>
<td>CHEM 131-CN &amp; CHEM 141-CN</td>
<td>Fundamentals of Chemistry I and Fundamentals of Chemistry Laboratory I</td>
</tr>
<tr>
<td>CHEM 132-CN &amp; CHEM 142-CN</td>
<td>Fundamentals of Chemistry II and Fundamentals of Chemistry Laboratory II</td>
</tr>
<tr>
<td>CHEM 215-B &amp; CHEM 235-B</td>
<td>Organic Chemistry II and Organic Chemistry Lab II</td>
</tr>
<tr>
<td>PHYSICS 130-A &amp; PHYSICS 131-A</td>
<td>College Physics I and Physics Laboratory I</td>
</tr>
<tr>
<td>PHYSICS 130-B &amp; PHYSICS 131-B</td>
<td>College Physics II and Physics Laboratory II</td>
</tr>
<tr>
<td>PHYSICS 130-C &amp; PHYSICS 131-C</td>
<td>College Physics III and Physics Laboratory III</td>
</tr>
<tr>
<td>PRO_HLTH 396-A</td>
<td>Professional Health Careers Proseminar I ¹</td>
</tr>
<tr>
<td>PRO_HLTH 396-B</td>
<td>Professional Health Careers Proseminar II (* Elective course ) ¹</td>
</tr>
</tbody>
</table>

### Required Elective Course 1

### Required Elective Course 2

### Required Elective Course 1 and 2 Options

Students are required to take two electives to customize their program to medical school requirements. Choose from the following elective options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL_SCI 310-CN</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>CHEM 215-C</td>
<td>Organic Chemistry III</td>
</tr>
<tr>
<td>CHEM 235-C</td>
<td>Organic Chemistry Lab III</td>
</tr>
<tr>
<td>KINS 237-CN</td>
<td>Foundations of Human Movement</td>
</tr>
<tr>
<td>PRO_HLTH 390</td>
<td>Careers in Professional Health</td>
</tr>
<tr>
<td>PSYCH 110-CN</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>STAT 202-DL</td>
<td>Introduction to Statistics and Data Science</td>
</tr>
<tr>
<td>MATH 220-A</td>
<td>Single-Variable Differential Calculus</td>
</tr>
<tr>
<td>MATH 220-B</td>
<td>Single-Variable Integral Calculus</td>
</tr>
<tr>
<td>MATH 220-B-DL</td>
<td>Single-Variable Integral Calculus</td>
</tr>
<tr>
<td>ENGLISH 111-DL</td>
<td>Writing Seminar II</td>
</tr>
<tr>
<td>ENGLISH 205-DL</td>
<td>Intermediate Composition</td>
</tr>
</tbody>
</table>

### Optional Elective Courses

In addition to the program requirements, premedicine students have the option to take any of the courses offered at SPS. Many premedicine students take courses such as the following, especially during their glide year in which they are preparing and submitting their applications. Optional elective courses are not eligible for financial aid, based upon federal financial aid requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL_SCI 302-DL</td>
<td>Fundamentals of Neurobiology</td>
</tr>
<tr>
<td>BIOL_SCI 312-CN</td>
<td>The Evolutionary Biology of Human Anatomy, Health and Disease</td>
</tr>
<tr>
<td>BIOL_SCI 313-DL</td>
<td>Human Anatomy</td>
</tr>
</tbody>
</table>

¹ These non-credit seminar courses are required for students beginning the program in or after Summer 2017. These courses are offered free of charge to students in the Professional Health Careers program.