CHOOSING YOUR COURSES – FOR STUDENTS INTERESTED IN HEALTH CARE – ENTERING IN 2019

Many of our students seeking a health care career major in biology, biochemistry, or chemistry, although no particular major is required for admission to health care professional schools. Lewis & Clark graduates with majors in art, history, international affairs, physics, and psychology have pursued professional training in health care fields. We encourage you to major in the area that has the most appeal to you. We have found that most medical schools, and other health career programs, require or recommend the following courses:

**Biology**

110 Biological Investigations  
202 Biological Core Concepts II

*One upper division Biology course with lab such as:*

- 311, 312 Molecular Biology and Molecular Biology Lab  
- 361 Cell Biology  
- 369 Developmental Biology  
- 375 Physiology  
- 380 Behavioral Genetics  
- 422 Neurobiology

**Chemistry**

110 General Chemistry I  
120 General Chemistry II  
210 Organic Chemistry I  
220 Organic Chemistry II

**English Composition**

Two writing-intensive courses, which can be satisfied by Exploration & Discovery, a required course for all first-year students.

**Mathematical Sciences**

123 Calculus & Statistics for Modeling the Life Sciences  
OR  
131 Calculus I and 132 Calculus II  
*not all medical schools require calculus – this keeps options open*

**Physics**

141 Introductory General Physics I and 142 Introductory General Physics II  
OR  
151 Physics I: Motion and 152 Physics II: Waves and Matter

**Psychology**

100 Introduction to Psychology

**STUDENTS ARE STRONGLY ENCOURAGED TO TAKE ADDITIONAL COURSES FROM THE FOLLOWING AREAS:**

**Biology**

- 252 Intro to Neurosciences  
- 311, 312 Molecular Biology and lab  
- 361 Cell Biology  
- 375 Physiology  
- 369 Developmental Biology  
- 380 Behavioral Genetics  
- 422 Neurobiology
### Chemistry
330 Structural Biochemistry
335, 336 Metabolic Biochemistry and lab (highly recommended)

### Philosophy
103 Ethics

### Psychology
230 Infant and Child Development Psychology
240 Abnormal Psychology

### Statistics
200 Psychology Statistics OR
255 Math Statistics

The courses listed above are described in the Lewis & Clark College catalog, which can be found online.

**SAMPLE** Academic Planning for Pre-health and Pre-medicine **SAMPLE**

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<thead>
<tr>
<th>Fall – First Year</th>
<th>Spring – First Year</th>
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<tbody>
<tr>
<td>Bio 110</td>
<td>Bio 202</td>
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<tr>
<td>Chem 110</td>
<td>Chem 120</td>
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<tr>
<td>Exploration &amp; Discovery (E&amp;D)</td>
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<tr>
<td>Gen Ed OR Explore Majors</td>
<td>Gen Ed OR Explore Majors</td>
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<th>Fall – Sophomore Year</th>
<th>Spring – Sophomore Year</th>
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<tr>
<td>Math 123 Calculus &amp; Stats for Life Sciences or Math 131</td>
<td>Upper Bio with lab</td>
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<tr>
<td>Chem 210 Organic</td>
<td>Chem 220 Organic</td>
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<tr>
<td>Gen Ed OR Explore Major</td>
<td>Gen Ed/Major/Elective</td>
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<td>Gen Ed/Major/Elective</td>
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<th>Fall – Junior Year</th>
<th>Spring – Junior Year</th>
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<tr>
<td>141 General Physics or 151 Motion</td>
<td>142 General Physics II or Physics II Waves, Matter</td>
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<tr>
<td>330 Structural Biochemistry</td>
<td>335 Metabolic Biochemistry</td>
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<tr>
<td>Psych 100 Intro to Psychology**</td>
<td>Major</td>
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<td>Major/Elective</td>
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<th>Fall – Senior Year ***</th>
<th>Spring – Senior Year</th>
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<tr>
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**Students who plan to wait a year (or two) before entering a professional health care program have a bit more flexibility in their 4-year plan. For example, students may choose to complete a study abroad program. In this case, it is important to pay close attention to the sequencing of courses and be sure to meet with the pre-health academic advisor for adjustments. Remember the 4-year plan is YOUR responsibility with support from your academic and faculty advisors.

** Unless majoring in Psych or Minoring in Neuropsych; if you are, take Psych 100 your sophomore year.

***Optional Overseas Program

**Summer – Prepare for and Take the MCAT, DCAT or Other Health Care Professional Exam**

APPLICATION PROCESS BEGINS HERE FOR STUDENTS WANTING TO ENTER A PROFESSIONAL PROGRAM IMMEDIATELY FOLLOWING GRADUATION*