

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***

Fall – First Year

Bio 110

Chem 110

Exploration & Discovery (E&D)

Gen Ed **OR** Explore Majors

Fall – Sophomore Year

Math 123 Calculus & Stats for Life Sciences **or** Math 131

Chem 210 Organic

Gen Ed **OR** Explore Major

Gen Ed/Major/Elective

Fall – Junior Year

141 General Physics **or** 151 Motion

330 Structural Biochemistry

Psych 100 Intro to Psychology**

Major/Elective

OR



Spring – First Year

Bio 202

Chem 120

E&D

Gen Ed **OR** Explore Majors

Spring – Sophomore Year

Upper Bio with lab

Chem 220 Organic

Gen Ed/Major/Elective

Gen Ed/Major/Elective

Spring – Junior Year

142 General Physics II **or** Physics II Waves, Matter

335 Metabolic Biochemistry

Major

Elective

***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****

Fall – Senior Year ***

Major

Major

Elective

Elective

Spring – Senior Year

Major

Major

Elective

Elective

*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 Minor in Neuropsych; if you are, take Psych 100 your sophomore year.

***Optional Overseas Program