

## Pre-Requisite Coursework for *Veterinary School*

Although many premed/pre-health students major in biology, biochemistry, or chemistry, students can enter graduate programs in the health professions with any undergraduate major. Professional healthcare programs seek well-rounded students with a diversity of interests, leadership experiences, and intellectual curiosity.

Students who plan to pursue postgraduate work in the health professions will take required courses in biology, chemistry, mathematics, physics, and psychology at Lewis & Clark. Many health-professional schools require advanced coursework in some of these areas as well. Many courses required for admission to health-professional schools are sequential, so good planning is key.

We have found that most veterinary schools require or recommend the below courses, however, *pre-requisites can vary from school to school*. It is a good idea to check directly with the schools you plan to apply to.

Pre-Requisite	LC Course
1-year of <b>Introductory Biology w/ lab</b>	<p><b>BIO 202:</b> Biological Core Concepts: Mechanisms (Pre-req: Bio 110 and Chem 120) <i>and</i></p> <p><b>BIO 311:</b> Molecular Biology w/ lab (Pre-reqs: Bio 110, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171. Recommended pre-req: Chem 220) <i>or</i></p> <p><b>BIO 317:</b> Invertebrate Zoology (Pre-reqs: Bio 110, Bio 201, and Bio 202) <i>or</i></p> <p><b>BIO 353:</b> Animal Behavior (Pre-reqs: Bio 110, Bio 201, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171) <i>or</i></p> <p><b>BIO 361:</b> Cell Biology (Pre-reqs: Bio 110, Bio 201, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171) <i>or</i></p> <p><b>BIO 375:</b> Physiology w/ lab (Pre-reqs: Bio 11, Bio 202, and Math 123, 131, CS 171, or Phys 141)</p>
1-year <b>Advanced Science courses (300 level or higher)</b>	<p><b>May include:</b></p> <p><b>BIO 311:</b> Molecular Biology w/ lab (Pre-reqs: Bio 110, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171. Recommended pre-req: Chem 220)</p> <p><b>BIO 317:</b> Invertebrate Zoology (Pre-reqs: Bio 110, Bio 201, and Bio 202)</p> <p><b>BIO 353:</b> Animal Behavior (Pre-reqs: Bio 110, Bio 201, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171)</p> <p><b>BIO 361:</b> Cell Biology (Pre-reqs: Bio 110, Bio 201, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171)</p> <p><b>BIO 375:</b> Physiology w/ lab (Pre-reqs: Bio 11, Bio 202, and Math 123, 131, CS 171, or Phys 141)</p> <p><b>Immunology, Microbiology, or Virology:</b> Offered through the Oregon Alliance of Independent Colleges and Universities. See your pre-health advisor for options.</p>
1 semester <b>Genetics</b>	<b>Bio 380:</b> Behavioral Genetics (Pre-reqs: Bio 110, Bio 202, Chem 120, and Math 123, 131, 255 or CS 171. Recommended pre-reqs: Bio 252, Bio 320, or Bio 361)
1-year <b>Introductory Chemistry w/ lab</b>	<p><b>CHEM 110:</b> General Chemistry I (Pre-req: QR 101) <i>and</i></p> <p><b>CHEM 120:</b> General Chemistry II (Pre-req: Chem 110)</p>

1-year <b>Introductory Physics w/ lab</b>	<b>PHYS 141:</b> Introductory General Physics I (Pre-req: Math 123 or Math 131) <i>and</i> <b>PHYS 142:</b> Introductory General Physics II (Pre-req: Phys 141 or Phys 151, and Math 131)
1-year <b>Organic Chemistry</b>	<b>CHEM 210:</b> Organic Chemistry I (Pre-req: Chem 120) <i>and</i> <b>CHEM 220:</b> Organic Chemistry II (Pre-req: Chem 210)
1-year <b>Biochemistry</b>	<b>CHEM 330:</b> Structural Biochemistry (Pre-req: Chem 220. Recommended pre-req: Bio 202) <b>CHEM 335:</b> Metabolic Biochemistry (Pre-req: Chem 220. Recommended pre-req: Bio 202)
1 semester <b>College Math</b>	<b>MATH 123:</b> Calculus and Statistics for Modeling the Life Sciences (Pre-req: Math 115) <i>or</i> <b>MATH 131:</b> Calculus I (Pre-req: MATH 115)
1 semester <b>Public Speaking</b>	<b>RHMS 210:</b> Public Discourse (Pre-req: None)
1 semester <b>English Composition</b>	<b>CORE 120:</b> Words
2 years <b>Humanities/Social Sciences</b>	<b>Options are plentiful, but it is strongly encouraged to take:</b> <b>PSY 100:</b> Introduction to Psychology (Pre-req: None) <i>or</i> <b>SOAN 100:</b> Introduction to Sociology (Pre-req: None)