

# UMBC Pre-Veterinary Requirements

The PreMedical and PreDental Advising Office, University Center 116

PreMedical ♦ PreDental ♦ PreOptometry ♦ PrePodiatry ♦ PreVeterinary

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UMBC Course Equivalents of Veterinary School Requirements	UMBC Course Title	Number of Credits at UMBC
BIOL 302	Molecular & General Genetics	4.0 credits
BIOL 303	Cell Biology  <b>Transfer students may already have completed pre-veterinary courses at other institutions and therefore can use those previous courses toward fulfilling the minimum requirements of vet schools. Vet schools evaluate transcripts of <u>all colleges attended</u> and will look at the <u>original course</u> when determining if a student fulfills the minimum requirements.</b>	4.0 credits
<b>Choose <u>two</u> labs from the list below:</b> BIOL 300 Lab BIOL 302 Lab <b>or</b> BIOL 303 Lab	Experimental Biology Lab Genetics Lab <b>or</b> Cell Biology Lab	2.0 lab credits 2.0 lab credits 2.0 lab credits
CHEM 101	Principles of Chemistry I	4.0 credits
CHEM 102 CHEM 102 Lab	Principles of Chemistry II Introductory Chemistry Lab	4.0 credits 2.0 lab credits
CHEM 351 CHEM 351 Lab	Organic Chemistry I Organic Chemistry I Lab	3.0 credits 2.0 lab credits
CHEM 352 CHEM 352 Lab	Organic Chemistry II (Spring/Summer only) Lab (Spring/Summer only)	3.0 credits 2.0 lab credits
BIOL 430 <b>or</b> CHEM 437	Biological Chemistry  Comprehensive Biochemistry I (Fall only)	4.0 credits 4.0 credits
Open Selection	Humanities and/or Social Science courses—6.0 credits Courses to meet this requirement many include, but are not restricted to: art, philosophy, history, economics, psychology, or sociology.	6.0 credits

<p><b>Option 1</b> <b>(preferred)</b></p> <p>PHYS 111 PHYS 112</p> <p><b>or</b></p> <p><b>Option 2</b></p> <p>PHYS121 PHYS122 + [PHYS 111 or PHYS 122Lab]</p>	<p><b>Selection depends on a student's declared major, although the 111/112 sequence is preferred.</b></p> <p><b>Option 1</b>(Combines the lecture and lab credit required by professional schools.) Basic Physics I Basic Physics II</p> <p><b>Option 2</b> (Lab credit is earned either via PHYS 111 or PHYS 122Lab) Introductory Physics I Introductory Physics II + [Basic Physics I (combined lecture+lab) or Introductory Physics Laboratory]</p>	<p>4.0 credits 4.0 credits</p> <p>4.0 credits 4.0 credits + [4.0 credits or 3.0 credits]</p>
<p>ENGL 100 <b>and</b> A second ENGL-prefix course.</p>	<p>Composition (AP credit is <u>not</u> acceptable.) <b>and</b> A second ENGL-prefix course <b>All courses must have the ENGL-prefix</b> Examples: ENGL 206, 210, 226, 231, 232, 233, 241, 243,250, 260, 261, 271, 273, 281, 291, 301, 315, 380, 382, 383, 391, 393</p> <p>Please see the UMBC course catalog for the entire list of ENGL-prefix courses.</p>	<p>3.0 credits 3.0 credits</p>
<p><b>Choose <u>one</u> course from the list below:</b> MATH 155 <b>or</b> MATH 151</p> <p><b>And, <u>one</u> course from this second list:</b> STAT 350 <b>or</b> MATH 152</p>	<p><b>Math selections depend on math placement exam results and a student's declared major.</b> Applied Calculus I <b>or</b> Calculus &amp; Analytic Geometry I</p> <p>Statistics with Applications in Biological Sciences <b>or</b> Calculus &amp; Analytic Geometry II</p>	<p>4.0 credits 4.0 credits</p> <p>4.0 credits 4.0 credits</p>
<p><b>Choose <u>one</u> course from the list below:</b></p> <p>STAT 121 <b>or</b> STAT 350</p>	<p><b>Selection depends on a student's declared major.</b> (Only for students who did not take STAT 350 as one of their Mathematics courses, as per the above section.)</p> <p>Intro to Statistics for the Social Sciences <b>or</b> Statistics with Applications in the Biological Sciences</p>	<p>4.0 credits 4.0 credits</p>

EHS 115	Medical Terminology	3.0 credits
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The veterinary prerequisites are based on the requirements of the Virginia-Maryland College of Veterinary Medicine's application requirements. VMCVM strongly recommends completion of additional coursework in such areas as Comparative Animal Physiology (BIOL 305-3 cr), Microbiology (BIOL 275-3 cr), and Animal Nutrition (not offered at UMBC). Some veterinary schools require Animal Nutrition as part of the admission course requirements and many of those schools accept online animal nutrition courses as fulfillment of an animal nutrition requirement. North Carolina State University, Purdue, and Rutgers offer online animal nutrition courses for students who attend universities that do not offer Animal Nutrition.

Admission requirements vary among veterinary schools and therefore, it is a student's responsibility to research the admissions criteria of the veterinary schools to which they will be applying. The Association of American Veterinary Medical Colleges (AAVMC, [www.aavmc.org](http://www.aavmc.org)) provides information on various veterinary school requirements. Students may log onto each individual veterinary school's website for detailed information about each school's admission requirements.

Current UMBC students are encouraged to join the PreVeterinary Society listserv by asking one of the officers to add them to the listserv. Please check out the UMBC Campus Life website for officer contact information, <https://campuslife.umbc.edu/>.