

UMBC Pre-Optometry Requirements

The PreMedical and PreDental Advising Office, University Center 116

PreMedical ♦ PreDental ♦ PreOptometry ♦ PrePodiatry ♦ PreVeterinary

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UMBC Course Equivalents of Optometry School Requirements	UMBC Course Title	Number of Credits at UMBC
BIOL 302	Molecular & General Genetics	4.0 credits
BIOL 303	Cell Biology	4.0 credits
	Transfer students may already have completed courses at other institutions and therefore can use those previous courses toward fulfilling the minimum requirements of optometry schools. Optometry 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.	
Choose <u>two</u> labs from the list below: BIOL 300 Lab BIOL 302 Lab or BIOL 303 Lab	Experimental Biology Lab Genetics Lab or 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
Choose <u>one</u> course from the list below: STAT 121 or STAT 350	Selection depends on a student's declared major. Intro to Statistics for the Social Sciences or Statistics with Applications in the Biological Sciences	4.0 credits 4.0 credits

<p><u>Option 1</u> (preferred)</p> <p>PHYS 111 PHYS 112</p> <p>or</p> <p><u>Option 2</u></p> <p>PHYS121 PHYS122 + [PHYS 111 or PHYS 122Lab]</p>	<p>Selection depends on a student's declared major, although the 111/112 sequence is preferred.</p> <p><u>Option 1</u>(Combines the lecture and lab credit required by professional schools.) Basic Physics I Basic Physics II</p> <p><u>Option 2</u> (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 and A second ENGL-prefix course.</p>	<p>Composition and A second ENGL-prefix course All courses must have the ENGL-prefix 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><u>Option 1</u> MATH 151 + MATH 152</p> <p>or</p> <p><u>Option 2</u> MATH 155 + MATH 155B + MATH 152</p>	<p>Selection depends on math placement exam results and a student's declared major.</p> <p>Calculus & Analytic Geometry I + Calculus & Analytic Geometry II</p> <p>Students who started with MATH 155 (4.0 credits, Applied Calculus I), can take MATH 155B (1.0 credit, Calculus of Trigonometric Functions) which is the required bridge course to MATH 152 (4.0 credits, Calculus & Analytic Geometry II). Thus, the pathway would be: MATH 155, MATH 155B, then MATH 152.</p>	<p>4.0 credits 4.0 credits</p> <p>4.0 credits 1.0 credit 4.0 credits</p>
<p>BIOL 275</p> <p>BIOL 275Lab</p>	<p>Microbiology</p> <p>Microbiology Lab</p>	<p>3.0 credits</p> <p>2.0 credits</p>
<p>PSYC 100</p>	<p>Introduction to Psychology</p>	<p>4.0 credits</p>

The optometry prerequisites are based on the requirements of Salus University Pennsylvania College of Optometry's application requirements given Salus is the closest optometry school to UMBC. Salus strongly recommends completion of additional upper level science coursework in such areas as Biochemistry (BIOL 430-4 cr or CHEM 437-4 cr), Human Physiology (BIOL 307-3 cr), and Physiological Psychology (PSYC 335-3 cr).

Admission requirements vary among optometry schools and therefore, it is a student's responsibility to research the admissions criteria of the optometry schools to which they will be applying. The Association of Schools and Colleges of Optometry (ASCO, <http://www.opted.org> ; <http://www.opted.org/about-optometric-education/professional-o-d-programs/applicants-and-advisors/student-profile-prerequisites/>) provides information on various optometry school requirements. Students may log onto each individual optometry school's website for detailed information about each school's admission requirements.

Current UMBC students are encouraged to join the Pre-Optometry Society listserv by asking one of the officers to add them to the listserv. Please check out the UMBC Student Life website for officer contact information, <http://osl.umbc.edu>.