



Pre-Optometry at the University of Michigan-Dearborn

Below, in the table on both pages, are the classes you need to learn for the content of the Optometry Admission Test ([OAT](#)) as well as meet the requirements of the Optometry schools in mid-west region (MI, OH, & IL). Admissions requirements vary among optometry schools. A list of optometry schools is on [Association of Schools and Colleges of Optometry](#).

Course Subject	Course Title	Course Number	Credit Hours	DDC*
Biology	Intro. to Organismal and Environmental Biology	BIOL 130+lab	4	GENS
	Intro. to Molecular and Cellular Biology (pre-req CHEM 134)	BIOL 140+lab	4	GENS
	Microbiology (pre-req BIOL 140 and CHEM 134)	BIOL 285+lab	4	
Chemistry	General Chemistry IA (pre-req or co-req MATH 105 or equivalent)	CHEM 134+lab	4	GENS
	General Chemistry IIA (pre-req CHEM 134) (If you took CHEM 144 & 146 + labs, this is acceptable)	CHEM 136+lab	4	GENS
	AND			
Additional	Organic Chemistry I (pre-req CHEM136)	CHEM 225	4	
Chemistry	Organic Chemistry II**	CHEM 226	4	
	Organic Chemistry Laboratory***	CHEM 227	2	
	AND			
	Principles of Biochemistry (pre-req BIOL 140 and CHEM 226)	BCHM 370 <i>or</i> BIOL 370 <i>or</i> CHEM 370	4	
Math	Biostatistics I (pre-req MATH 113 or 115)	STAT 301	4	
	OR			
	Applied Statistics (pre-req MATH 113 or 115)	STAT 325	4	
	AND			
	Calc I for Biology & Life Sci (pre-req MATH 105)	MATH 113	4	
	OR			
	Calculus I (pre-req MATH 105)	MATH 115	4	
Physics	Introductory Physics I (pre-req Math 105)	PHYS 125+lab	4	
	Introductory Physics II (pre-req PHYS 125)	PHYS 126+lab	4	



Course Subject	Course Title	Course Number	Credit Hours	DDC*
English or Writing Composition	Writing & Rhetoric I	COMP 105 or COMP 110	3	GEWO
	Writing & Rhetoric II	COMP 106 or COMP 220	3	GEWO
Social Sciences****	Introduction to Psychology	PSYC 101	3	GESB
	Understanding Society	SOC 200	3	

DDC* = Dearborn Discovery Core

GENS = Natural Sciences

GEWO = Written & Oral Communication

GEWI = Upper-Level Writing Intensive

GEQT = Quantitative Thinking/Problem Solving

GESB = Social & Behavioral Analysis

GECC = Critical & Creative Thinking

Recommended additional college courses (**required** by some optometry schools):

- **Biology:** Physiology (1 or 2 courses) course work must cover all the systems of the body – **required** only by The Ohio State University College of Optometry
- **Biology:** Genetics (BIOL 306), Cell Biology (BIOL 301), Embryology (BIOL 311)
- **English:** upper-level writing composition - strongly suggested if you test out of Comp 105 and need two English writing classes.
- ****Organic Chemistry II:** Not required by some Optometry schools **but topics from this course are on the OAT exam.** FSU MCO recommends this course.
- *****Organic Chemistry Laboratory:** Some Optometry schools require 1 lab only. UM-Dearborn only offers a complete series of Lab 1 & 2 for 2 credits.
- ******Sociology:** 2 more courses – **required** by The Ohio State University College of Optometry.
- **Speech:** Principles of Speech Communication (SPEE 101)

Please note: Some Optometry Schools do not accept AP credit for prerequisite courses. Check with your respective schools' websites well before you apply.