

B.S. MIC major and CHM minor: Pre-optometry Track

Freshman Year	Fall	Spring
Modern Plagues in Society: MIC 201 ^{2*} or Lab for Microbes and the Immune System: MIC 304 ^{***}	3 2	Intro. to Microbes and the Immune System: MIC 301* Lab for Microbes and the Immune System: MIC 304 ^{***}
Biology 150(Lect.)/151(Lab)	5	Biology 160(Lect.)/161(Lab)
Chemistry 121(Lect.)/114(Lab)	5	Chemistry 221(Lect.)/205(Lab)
Option: People & Society Cognate (PSY 110), (MTH 140)	3-4	English 106 or 107
English 105	<u>3</u>	<u>3</u>
	16-17	15-18
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Sophomore Year		
Innate Immunology: MIC 319 ^{1*} (MIC 304 ^{***})	3	Immunobiology: MIC 321 ^{1*}
Arts & Humanities Cognate	3	Biochemistry 401
Chemistry 222(Lect.)/206(Lab)	6	Mathematics 162
Mathematics 161	4	BIL 255 or 250
Foreign Language	<u>3</u>	Foreign Language or SOC
	16-19	<u>3</u> 17
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Junior Year		(Take OAT and apply to optometry school July)
Microbial Pathogenesis and Physiology: MIC 323 ^{2*}	3	Fundamental and Medical Virology: MIC 436 ^{2*}
GSC 309* or MSC 465*/MSC 464*(Lab)	3-4	People & Society Cognate
Physics 101(Lect.)/106(Lab)	5	Physics 102(Lect.)/108(Lab)
Elective	3	Statistics/Computer Science (PSY 292)
Foreign Language	<u>3</u>	Arts & Humanities Cognate
	17-18	<u>3</u> 17
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Senior Year		
Microbiology & Immunology Colloquium: MIC 441	1	Medical Parasitology: MIC 322 ^{2*}
Research Microbiology & Immunology: MIC 451-456 ^{**}	3	Research Microbiology & Immunology: MIC 451-456 ^{**}
Elective	3	Elective
<i>BIL 215 Physiology/lab</i>	4	<i>HCS 212/213 Human Anatomy/lab</i>
People & Society Cognate	3	Elective
Arts & Humanities Cognate	<u>3</u>	Elective
	17	<u>3</u> 18

Enroll in Optometry School

Modern Plagues in Society 201
Intro. to Microbes and the Immune System 301
Microbiology & Immunology Lab 304
Innate Immunology 319
Immunobiology 321
Parasitology 322
Microbial Pathogenesis and Physiology 323
Fundamental and Medical Virology 436



441 Colloquium (Seminar on the Medical Campus)
451- 456^{**} Special Projects (Research)
460 Advanced Topics in MIC/IMMUNO

Courses that may be used in BIL, GSC, MSC
255 Cell Molecular Biology or 250
309 Microbes in the Environment
465/4 Marine Comparative Immunology/lab

24 credits of MIC are required for major, students must take MIC 301 and 304, 319 or 321 (total 11-12 credits) and MIC 201 or MIC 322 or 323 or 436. The remaining 13 credits can be fulfilled with any of the courses listed above. 12 credits of MIC are required for the minor; students must take MIC 301 and 304, 319 or 321, and MIC 201 or MIC 322 or 323 or 436. Majors can get MIC credit for courses outside of MIC such as: BIL 255 which is recommended for Medical School or BIL 250, GSC 309 or MSC 465/4 toward the 13 credits remaining to receive the major. MIC 441 may be taken up to two times. Psychology and Sociology should be taken as part of your people and society cognate due to the MCAT's focus on these subjects. BMB 401 does not count toward the 24 credits of MIC required but must be taken.

120 credits are required for graduation. Your last 45 credits must be taken at the University of Miami.

Courses may be taken during the summer sessions to lighten the load in any given semester.

Physiology with lab and Human anatomy with lab are required for optometry school entry.

For any additional requirements that are not included please consult with Diana M. Lopez, Ph. D. or Roger Williams, M.S. Ed.

(*) indicates, offered only in that semester. (**) indicates that permission of undergraduate director is needed, in addition to the following: 3.0 GPA within major, 3.0 GPA overall and at least 17 credits completed in our department; also it can be taken from 2-6 credits and only 6 may count toward the major. (***) indicates lab can be taken before, after or with MIC 301 and only needs to be taken once.

(¹) indicates at least 1 course must be taken from MIC 321,319. (²) indicates at least 1 course must be taken from MIC 201,322, 323, 436.