|  |  |  |  |
| --- | --- | --- | --- |
| **Freshman Year** | **Fall** |  | **Spring** |
|  |  |  |  |
| Biology 150(Lect.)/151(Lab) | 5 | Microbiology & Immunology 301/lab\* or 303\* | 5 |
| Chemistry 111(Lect.)/113(Lab) | 4 | Biology 160(Lect.)/161(Lab) | 5 |
| People & Society Cognate (PSY 110 prereq. for Stats) | 3 | Chemistry 112(Lect.)/114(Lab) | 4 |
| English 105 | 3 | English 106 or 107 | 3 |
|  | 15 |  | 17 |
| **Sophomore Year** |  |  |  |
|  |  |  |  |
| Microbiology & Immunology 319\* (304\*) | 3 | Microbiology & Immunology MIC 321\* | 3 |
| Arts & Humanities Cognate | 3 | Chemistry 202(Lect.)/206(Lab) | 4 |
| Chemistry 201(Lect.)/205(Lab) | 4 | Mathematics 162 | 4 |
| Mathematics 161 | 4 | Biology 255 | 3 |
| Foreign Language | 3 | Foreign Language or SOC | 3 |
|  | 17 |  | 17 |
| **Junior Year** | **GRE** |  | **GRE** |
|  | **MCAT** |  | **MCAT** |
| Microbiology & Immunology 323\* | 3 | Microbiology & Immunology 436\* | 3 |
| GSC 310\* or MSC 465\* | 3 | People & Society Cognate | 3 |
| Physics 101(Lect.)/106(Lab) | 5 | Physics 102(Lect.)/108(Lab) | 5 |
| Biochemistry 401 | 3 | Statistics/Computer Science | 3 |
| Foreign Language | 3 | Arts & Humanities Cognate | 3 |
|  | 17 |  | 17 |
| **Senior Year (applications)** |  |  |  |
|  |  |  |  |
| Microbiology & Immunology 441 | 1 | Microbiology & Immunology 322\* | 3 |
| Microbiology & Immunology (451-456)\*\* | 3 | Microbiology & Immunology (451-456)\*\* | 3 |
| BIL 554\* (Cannot be taken with BIL 352) | 4 | BIL 352\* (Cannot be taken with BIL 554) | 3 |
| Elective | 3 | Elective | 3 |
| People & Society Cognate | 3 | Elective | 3 |
| Arts & Humanities Cognate | 3 | Elective | 3 |
|  | 17 |  | 18 |

**Enroll in graduate school**

|  |  |  |
| --- | --- | --- |
| Modern Plagues in Society 201  Intro. Microbiology & Immunology 301 or MIC 303/304 |  | 441 Colloquium (Seminar on the Medical Campus) |
|  | 451- 456\*\* Special Projects (Medical research)  460 Advanced Topics In MIC/IMMUNO |
| Honors Intro. Microbiology Seminar 302 | Other Courses that may be used |
| Innate Immunology 319 | BIL 255 Cell Molecular Biology |
| Immunobiology 321 | BIL 352 Scanning Electron Microscopy |
| Parasitology 322 | BIL 554 Transmission Electron Microscopy |
| Principals of Microbial Pathogenesis 323 | GSC 310 Microbes in the Environment |
| Virology 436 |  | MSC 465 Marine Comparative Immunology |
|  |  |  |

24 credits of MIC are required for major, students must take MIC 301 (or MIC 303/304), 319, 321 (total 11-12 credits). The remaining 12- 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, 319 and 321. Majors can get MIC credit for courses outside of MIC such as: BIL 255 which is recommended for Medical School in addition you may use BIL 554 or BIL 352 and GSC 310 or MSC 465 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. (\*) 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.

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.

The GRE is required for those pursuing a Ph.D. and the MCAT is required for those pursuing an M.D./Ph.D.

This major is applicable for those that want to attend school in preparation for medical, graduate, pharmacy, optometry, podiatry and dental careers… for any additional requirements that are not included please consult with Diana M. Lopez, Ph. D. or Roger Williams, M.S. Ed.