

## **Course Requirements for the Microbiology and Immunity Graduate Certificate Programs (Revised 4-5-2022)**

### **Core: Eight Units Required:**

- IMB 605/CMM 605: Medical Immunology and Infectious Disease, 4 units  
OR IMB 506: Human Immunology, 3 units and IMB 502: Medical Microbiology Basics, 1 unit
- IMB 501: Medical Microbiology and Immunology, 4 units

### **Electives: Choose Four or More Units from the Following Elective Courses:**

- IMB 504: Medical Virology Basics, 1 unit
- CMM 533: Molecular Medicine, 1 unit
- CMM 535: Genetic Medicine, 1 unit
- CMM 536: Cell Biology Basics, 1 unit
- CMM 537: Immunology Basics, 1 unit
- CMM 550: Inflammation and Immune Pathology, 1 unit
- IMB 519: General Immunological Concepts, 4 units
- ECOL 509: Evolution of Infectious Disease, 3 units
- IMB 520: Pathogenic Bacteriology, 3 units
- MIC 528R: Microbial Genetics, 3 units
- MIC 530: Food Microbiology and Biotechnology, 3 units
- IMB 533: Medical and Molecular Virology, 4 units
- IMB 538: Ecology of Infectious Disease, 3 units
- IMB 566: Cellular Immunology, 4 units
- IMB 580: Molecular Virology, 3 units
- MIC 595A: Critical Evaluation of Scientific Literature, 1 unit
- IMB/CMM 696B: Student Research Seminar, 1 unit

Taking 12 units of the above core and elective classes fulfills the required coursework for attaining the certificate degree in MIGCP.

Students may also want to consider taking other courses in the biomedical sciences to enhance their learning experience. However, these courses will not count towards required units of coursework in the certificate program.

Certificate students must maintain an overall GPA of 3.0 as required by the Graduate College. Students whose cumulative GPA falls below 3.0, will be put on probation for the next semester. If the student's GPA is still below 3.0 at the end of the probation semester, he/she shall be dismissed from the MIGCP.