

Course Requirements for the Microbiology and Immunity Graduate Certificate Programs (Revised 06-16-2025)

Core: Eight Units Required:

- IMB 605/CMM 605: Medical Immunology and Infectious Disease, 4 units – MAIN CAMPUS/FALL OR IMB 506: Human Immunology, 3 units and IMB 502: Medical Microbiology Basics, 1 unit (5wk-1) – FALL, SPRING, SUMMER
- IMB 501: Medical Microbiology and Immunology, 4 units – FALL, SPRING, SUMMER

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

- IMB 504: Medical Virology Basics, 1 unit (5wk-3)- FALL, SPRING, SUMMER
- IMB 505: Human Medical Bacteriology, 3 units (7W-2)
- CMM 503: Human Molecular Genetics Basics, 1 unit – 5 WEEK COURSE, Prerequisite for CMM 533 & CMM 535, if no background in molecular genetics-FALL, SPRING, SUMMER
- CMM 533: Molecular Medicine, 1 unit, 5 WEEK COURSE (Prereq- CMM 503)-FALL
- CMM 534: Genomic Medicine, 1 unit, 5 WEEK COURSE (Prereq- CMM 503)- SPRING
- CMM 535: Genetic Medicine, 1 unit, 5 WEEK COURSE (Prereq- CMM 503)-FALL
- CMM 536: Cell Biology Basics, 1 unit-SPRING
- CMM 537: Immunology Basics, 1 unit-SPRING
- CMM 550: Inflammation and Immune Pathology, 1 unit-SPRING
- IMB 519: General Immunological Concepts, 4 units – MAIN CAMPUS/FALL
- ECOL 509: Evolution of Infectious Disease, 3 units - FALL
- IMB 520: Pathogenic Bacteriology, 3 units – MAIN CAMPUS/FALL
- MIC 528R: Microbial Genetics, 3 units - SPRING
- MIC 530: Food Microbiology and Biotechnology, 3 units – MAIN CAMPUS/SPRING
- IMB 533: Medical and Molecular Virology, 4 units – MAIN CAMPUS/SPRING
- IMB 580: Human Medical Virology, 3 units (7W-1) – FALL, SPRING, SUMMER
- MIC 595A: Critical Evaluation of Scientific Literature, 1 unit – MAIN CAMPUS/SPRING
- IMB/CMM 696B: Student Research Seminar, 1 unit – MAIN CAMPUS/FALL, SPRING

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.