Courses commonly taken that qualify for the 5 required credits (out of the 10 credits total) of formal graduate-level coursework:

- Micro 607 – Advanced Microbial Genetics
- Micro 612 – Prokaryotic Molecular Biology
- Micro 625 – Advanced Microbial Physiology
- Micro 632 – Industrial Microbiology/Biotechnology
- Micro 665 – Biology and Genetics of Filamentous Fungi
- Micro 668 – Microbiology at Atomic Resolution
- Micro 710 – Microbial Symbiosis
- Micro 726 – Regulation of Gene Expression in Prokaryotes
- Micro 790 - Immunology of Infectious Disease
- Micro 875 – Bioinformatics for Microbiologists
- MMI 528 – Immunology
- MMI 603 – Clinical and Public Health Microbiology
- Biochem 601 – Protein and Enzyme Structure and Function
- Biochem 620 – Eukaryotic Molecular Biology
- Stats 571 – Statistical Methods for Bioscience I
- Zoology 430 - Comparative Anatomy of Vertebrates