

# ME.340 (BIOLOGICAL CHEMISTRY)

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## Courses

**ME.340.702. Rigor, Reproducibility & Experimental Design in Biological Chemistry. 2 Credits.**

**ME.340.711. Bacterial Cell Biology and Development. 1 Credit.**

**ME.340.712. Bacterial Signaling and Communities.**

**ME.340.713. Microbial Pathogenesis. 1 Credit.**

This course will examine a breadth of topics in microbial pathogenesis in the form of faculty lectures providing foundational information and student presentations of current research. Various aspects of host-pathogen interactions will be covered including routes of infection; adhesion, invasion and colonization; extracellular, cytosolic and vacuolar pathogens; virulence mechanisms and host cell manipulation; innate immunity and host defense mechanisms; antibiotic therapy and resistance.

**ME.340.714. Exosomes: Molecular Mechanisms and Biomedical Applications. 1 Credit.**

This course will explore the biology of exosomes and other secreted vesicles, as well as their biomedical roles and translational applications. Class content will consist of a combination of in-class lectures, assigned readings, assigned literature research projects, and student presentations.

**ME.340.715. Graduate Elective in Proteomics. 1 Credit.**

**ME.340.805. Research in Biochemistry and Molecular Biology. 1 - 18 Credits.**

N/A

**ME.340.808. BCMB Research. 1 - 18 Credits.**

Laboratory Research