

# BIOL 4450 : Microbial Genetics

Study of all aspects of the genetics of bacteria, including DNA replication, bacterial genome structure, gene expression and regulation, gene transfer, and bacteriophage genetics. Students will learn about these topics in light of both classics and cutting-edge molecular and bioinformatics-based approaches. The class will also survey the latest applications of microbial genetics to the fields of biotechnology, genetics engineering, agriculture and medicine. 3 lecture hours, 3 hours laboratory per week. Prerequisites: [BIOL 3321](#)/3121

**Credits** 4

**Course ID**

007390

**Requisites**

[BIOL 4450](#) Prerequisites: [BIOL 3321](#), 3121

**Semester Offered**

[Offered as needed](#)