

# Bisc 560: Microbial Experimental Evolution

## [Biology](#)

In this course, students will learn key topics in evolutionary genetics and evolutionary ecology through the lens of the microbial experimental evolution approach. This approach leverages microbial experimental systems to studying the evolutionary process in real time in the laboratory. Course topics will include adaptation, mutation rate evolution, neutral evolution, epistasis, pleiotropy, evolution of sex and recombination, social evolution, evolution in variable environments, and coevolution.

3 Credits

## Prerequisites

- Prerequisite: Bisc 301 (Minimum grade - C) or Bisc 336 (Minimum grade - C)
- Prerequisite: Bisc 160 (C) and Bisc 161 (C) and Bisc 162 (C) and Bisc 163 (C) or graduate standing.

## Instruction Type(s)

- Lecture: Lecture for Bisc 560

## Subject Areas

- [Ecology and Evolutionary Biology](#)
- [Microbiology, General](#)
- [Computational Biology](#)
- [Biostatistics](#)

