

# MICROBIOLOGY MAJOR (M.S.)

## General Admission for M.S. in Microbiology Program

In addition to the general University requirements for admission to graduate studies and admission to the graduate programs in the Department of Biological Sciences, the M.S. in Microbiology program requires a prerequisite course in microbiology.

## Degree Requirements for Microbiology Program

In addition to the general University and College requirements for the degree, the Department of Biological Sciences requires the candidate to complete the following:

### Plan D – With Research Thesis

- Complete a total of 31 credits as follows:
  - 11 credits:
    - BIOL 6113 Biostatistics
    - BIOL 8201 Biology Sem for MS Students
    - BIOL 8202 Biol Seminar for MS Student
    - BIOL 8601 Research for MS Thesis I- BIOL 8605 Res in Master's Thesis V
  - (Two thesis courses are required for the degree. However, the student may register for more than two, as needed.)
  - 15 credits from the Microbiology Course Group; at least half of these must have a laboratory component.
  - 3 credits from the following courses:
    - BIOL 6231 Molecular Biology
    - BIOL 6233 Biochemistry of Metabolism
    - CHEM 6501 General Biochemistry I
  - 2 credits from either Microbiology Course Group or Biology Course Group
- Make an oral presentation of thesis at the Graduate Biology Seminar.
- Submit an acceptable thesis based on laboratory research three months before the expected degree completion date with an oral defense two weeks before the expected completion date.

### Plan E – With Library Thesis

- Complete a total of 34 credits as follows:
  - 5 credits:
    - BIOL 6113 Biostatistics Biostatistics
    - BIOL 8201 Biology Sem for MS Students Biology Seminar for M.S. Students I
    - BIOL 8202 Biol Seminar for MS Student Biology Seminar for M.S. Students II
  - 20 credits from the Microbiology Course Group; at least half of these must have a laboratory component.
  - 1 credit from the following:
    - BIOL 7491 Select Topics-Microbiology
  - 3 credits from the following:

- BIOL 6231 Molecular Biology
  - BIOL 6233 Biochemistry of Metabolism
  - CHEM 6501 General Biochemistry I
  - 5 credits from either Microbiology Course Group or Biology Course Group.
- Prepare a library research paper in conjunction with a Selected Topics course.
  - Make an oral presentation of the library research results at the Graduate Biology Seminar.