

# MICROBIOLOGY MINOR

## Also available via Ecampus.

Administered by the Department of Microbiology (<https://catalog.oregonstate.edu/college-departments/science/school-life-sciences/microbiology/>) under the School of Life Sciences.

The Microbiology minor is designed for students from other majors who have an additional interest in the field of microbiology. Student majoring in Biology (BI) or BioHealth Sciences (BHS) cannot declare the Microbiology minor. The courses used for the MB minor may be shared with other majors, options, and minors.

## Minor Code: 570

Some of the courses required for the Microbiology minor have additional prerequisites or grade requirements that are separate from the MB minor. At a minimum students will need to take the BI 2xx course series.

| Code  | Title  | Credits |
|---|--|---------|
| <b>Required Core</b>  |  |         |
| BHS 255/MB 255  | *ALLIED HEALTH MICROBIOLOGY                              | 4-5     |
| or MB 230   | *INTRODUCTORY MICROBIOLOGY                               |         |
| or MB 302   | GENERAL MICROBIOLOGY                                     |         |
| & MB 303  | and GENERAL MICROBIOLOGY LABORATORY                      |         |
| <b>Electives</b>  |  |         |
| Select 23 credits from the courses in Category I and Category II. No more than 9 credits can come from Category II. |  | 23      |
| <i>Category I Electives</i> <sup>1</sup>  |  |         |
| Select 14-23 credits from the following courses:  |  |         |
| BHS 316   | PRINCIPLES OF IMMUNOLOGY                                 |         |
| BHS 320/MB 320  | HUMAN BACTERIOLOGY                                       |         |
| BHS 323   | *MICROBIAL INFLUENCES ON HUMAN HEALTH                    |         |
| BHS 329   | MECHANISMS OF DISEASE: INTRODUCTION TO GENERAL PATHOLOGY |         |
| BHS 340/MB 340  | HUMAN VIROLOGY   |         |
| BOT 350   | INTRODUCTORY PLANT PATHOLOGY                             |         |
| BOT 461   | MYCOLOGY   |         |
| MB 385  | *EMERGING INFECTIOUS DISEASES AND EPIDEMICS              |         |
| MB 310  | BACTERIAL MOLECULAR GENETICS                             |         |
| MB 311  | *MOLECULAR MICROBIOLOGY LAB: A WRITING INTENSIVE COURSE  |         |
| MB 312  | BACTERIAL PHYSIOLOGY AND METABOLISM                      |         |
| MB 314  | AQUATIC MICROBIOLOGY                                     |         |
| MB 401  | RESEARCH   |         |
| MB 406  | SPECIAL PROJECTS   |         |
| MB 416  | IMMUNOLOGY   |         |
| MB 417  | IMMUNOLOGY LABORATORY                                    |         |
| MB 420  | MICROBIAL GENOMES, BIOGEOCHEMISTRY, AND DIVERSITY        |         |
| MB 422  | AQUATIC MICROBIOLOGY LABORATORY                          |         |
| MB 430  | BACTERIAL PATHOGENESIS                                   |         |
| MB 434  | VIROLOGY   |         |
| MB 435  | PATHOGENIC MICROBES LABORATORY                           |         |
| MB 436  | THE HUMAN MICROBIOME                                     |         |
| MB 440  | FOOD MICROBIOLOGY  |         |
| MB 441  | FOOD MICROBIOLOGY LABORATORY                             |         |
| MB 448  | MICROBIAL ECOLOGY  |         |
| MB 456  | MICROBIAL GENETICS AND BIOTECHNOLOGY                     |         |
| MB 479/FST 479  | FERMENTATION MICROBIOLOGY                                |         |
| MB 480  | GENERAL PARASITOLOGY                                     |         |

|               |   |
|---------------|---|
| MB 491/FW 491 | FISH DISEASES IN CONSERVATION BIOLOGY AND AQUACULTURE     |
| MB 496/FW 496 | FISH DISEASES IN CONSERVATION BIOLOGY AND AQUACULTURE LAB |

### Category II Electives

Select 0-9 credits from the following courses:

|         |                                      |
|---------|--------------------------------------|
| ANS 302 | COMMON DISEASES OF COMPANION ANIMALS |
| BB 485  | APPLIED BIOINFORMATICS               |
| BI 420  | *VIRUSES IN MODERN SOCIETY           |
| BI 495  | DISEASE ECOLOGY                      |
| BOT 324 | *FUNGI IN SOCIETY                    |
| BOT 480 | PHOTOSYNTHESIS AND PHOTOBIOLOGY      |
| FST 360 | FOOD SAFETY AND SANITATION           |
| FST 460 | CHEMISTRY AND BIOCHEMISTRY OF BEER   |
| FST 461 | PRODUCTION AND ANALYSIS OF BEER      |
| H 312   | *HIV/AIDS AND STIS IN MODERN SOCIETY |
| H 320   | INTRODUCTION TO HUMAN DISEASE        |
| MB 330  | *DISEASE AND SOCIETY                 |

Total Credits

27-28

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Baccalaureate Core Course (BCC)

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Writing Intensive Course (WIC)

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Not more than three credits can consist of MB 401 or MB 406. Other blanket courses (MB 403, MB 405, MB 407, MB 410) cannot be used to satisfy the minor requirement. All of these courses must be graded, not taken S/U

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