



# MICROBIOLOGY

## Bachelor of Science

**ELECTIVES:** Any of these credits may add up to your total 28 credits needed in combination with the distribution courses

- Electives also include any of the distribution courses not counted for distribution requirements.
- Check course pre-requisites. 500 level courses require instructor permission.
- Some courses may be restricted to majors only. Please check with the listed department.
- To obtain degree credit for a course not on this list, you must petition the Undergraduate Curriculum Committee *prior* to taking the class

BIOEN 454/G H 454	(1)	Bioeng Solutions to Improve the Health of Families Worldwide
BIOEM 498	(4)	Global Health Technology: Molecular Diagnostics
BIOL 401	(3)	Advanced Cell Biology
BIOL 419	(4)	Data Science for Biologists
BIOL 455	(4)	Human Immunology and pathology of infectious diseases
BIOL 466	(3)	Pathobiology of Emerging Diseases
BIOL 481	(5)	Experimental Evolutionary Ecology
CEE 462	(3)	Applied Limnology and Pollutant Effects on Freshwater
CEE 482	(3)	Wastewater Treatment and Re-Use
CHEM E 467/ BIOEN 467	(3)	Biochemical Engineering
ENV H 440	(3)	Water, Wastewater, and Health
ENV H 441	(3)	Food Protection
ENV H 442	(3)	Zoonotic Diseases and Their Control
ENV H 444	(3)	Antibiotic Resistant Genes and Bacteria
ENV H 447	(3)	Environmental Change and Infectious Disease
ENV H 451	(3)	Ecology of Environmentally Transmitted Microbiological Hazards
ENV H 452	(3)	Detection & Control of Environmentally Transmitted Mbio Hazard
EPI 320	(4)	Introduction to Epidemiology
EPI 527	(3)	Vaccines
ESRM 404	(5)	Plant Microbiology Lab
ESRM 422	(2)	Plant Microbiology Seminar
FISH 404	(5)	Diseases of Aquatic Animals
GENOME 372	(5)	Genomics and Proteomics
GENOME 373	(4)	Genomic Informatics
GENOME 414	(5)	Molecular Evolution
GH 401	(1)	Introduction to Global Health
GH 402	(1)	Multidisciplinary Perspectives on Global Health
GH 410	(3)	Advanced Biologic Principles of Global Diseases
MICROM 482	(1-5)	Peer Teaching Assistants in Microbiology
MICROM 495	(var.)	Microbiology Undergraduate Research
MICROM 499	(var.)	Undergraduate Lab Research
MICROM 555	(2.5)	Advanced Clinical Microbiology
NUTR 446	(3)	Food Safety and Health
OCEAN 330	(3)	Marine Biogeochemical Cycles
OCEAN 431	(3)	Special Topics in Biological Oceanography
OCEAN 530	(3)	Marine Bacteria, Archaea, and Viruses
OCEAN 572	(1-3)	Marine Protist Ecology
PABIO 551	(4)	Biochemistry and Genetics of Pathogens and their Hosts
PABIO 552	(4)	Cell Biology of Human Pathogens and Disease