

**Environmental Microbiology focused**

ECOL 326	Genomics
MIC 329A	Microbial Diversity
MIC 340	Introduction to Biotechnology
PLP 427R	General Mycology
PLP 427L	General Mycology Lab (L)
ABE 447	Sensors and Controls (L)
ENVS 464	Environmental Organic Chemistry
ENVS 425	Environmental Microbiology
ENVS 426	Environmental Micro Lab (L)
ENVS 305	Pollution Science
PLS 312	Plant and Animal Genetics (L)
ENVS 408	Scientific Writing for Environmental, Agricultural and Life Sciences
MIC 438	Ecology of Infectious Diseases
ENVS 440	Biodegradation (alternating years)
ENVS 462	Environ. Soil and Water Chemistry
ECOL 475	Freshwater and Marine Algae
ENVS 418	Intro Human Health Risk Assessment

**Medical Microbiology focused**

ENTO 310	Living in Symbiosis
ECOL 320	Genetics
ACBS 380	Food Safety & Microbiology (L)
MIC 329A	Microbial Diversity
ACBS 403R	Biology of Animal Parasites
MCB 411	Molecular Biology
MIC 420	Pathogenic Bacteriology
PLP 427R	General Mycology
PLP 427L	General Mycology Lab (L)
MIC 452	Antibiotics: A Biological Perspective
BIOC 385	Metabolic Biochemistry
MCB 473	Recombinant DNA Methods and Applications
PLS 312	Plant and Animal Genetics (L)
ACBS 423	Mechanisms of Disease
MIC 438	Ecology of Infectious Diseases
MCB 473	Recombinant DNA Methods and Applications
MIC 430	Food Microbiology and Biotechnology
MCB 410	Cell Biology
BIOC 385	Metabolic Biochemistry

**Food Safety and Public Health Microbiology focused**

NSC 301	Nutrition and the Life Cycle
ECOL 320	Genetics
ACBS 400A	Animal Anatomy & Physiology I
CPH 405	Biology in Public Health
MIC 420	Pathogenic Bacteriology
ENVS 425	Environmental Microbiology
ENVS 426	Environmental Micro Lab (L)

CPH 309 Introduction to Epidemiology  
ACBS 400B Animal Anatomy & Physiology II  
ACBS 405 Principles of Livestock Health Management  
ACBS 420 Meat Animal Composition  
ACBS 456 Aquaculture  
MIC 430 Food Microbiology and Biotechnology  
ENVS 418 Intro to Human Health Risk Assess.

**Microbial Technology and Genomics Microbiology focused**

ENTO 310 Living in Symbiosis  
ECOL 320 Genetics  
MCB 416A Statistical Bioinformatics and Genomic Analysis  
ABE 447 Sensors and Controls (L)  
ECOL 453 Functional and Evolutionary Genomics  
CHEE 481A Engineering of Bio. Processes  
ECOL 326 Genomics  
MCB 411 Molecular Biology  
MIC 340 Introduction to Biotechnology  
BIOC 385 Metabolic Biochemistry  
MCB 422 Problem Solving with Genetic Tools  
MIC 438 Ecology of Infectious Disease  
MCB 473 Recombinant DNA Methods and Applications  
ABE 489B Bio/Micro Nanotechnology Applications

**Plant Pathology and Microbiology focused**

PLP 305 Introductory Plant Pathology  
MIC 329A Microbial Diversity  
MCB 411 Molecular Biology  
ENVS 425 Environmental Micro  
ENVS 426 Environmental Micro Lab (L)  
PLP 427R General Mycology  
PLP 427L General Mycology Lab (L)  
PLS 312 Plant and Animal Genetics (L)  
PLS 360 Plant Physiology  
PLS 361 Plant Physiology Lab (L)  
ACBS 456 Aquaculture  
ECOL 475 Freshwater/Marine Algae (alternating years)  
PLS 333 General Virology