

OPTION: APPLIED MICROBIOLOGY

The Applied Microbiology option prepares you for professional positions in algal biofuels, environmental monitoring and improvement, industrial applications of microbiology, food sanitation, research, or graduate study.

Required Courses

BCHE 341	Survey of Biochemistry	4 cr. (3+3P)
BIOL 311 L	General Microbiology Laboratory	2 cr. (4P)
BIOL 451	Physiology of Microorganisms	3 cr.
BIOL 473	Ecology of Microorganisms	3 cr. (2+3P)
CHEM 313	Organic Chemistry I	3 cr.
CHEM 314	Organic Chemistry II	3 cr.
CHEM 315	Organic Chemistry Laboratory	2 cr. (6P)
EPWS 373	Fungal Biology	3 cr. (2+2P)
EPWS 420	Environmental Behavior of Pesticides	3 cr.
EPWS 486	Plant Virology	3 cr.
MATH 142G	Calculus for the Biological and Management Sciences	3 cr. (2+2P)
	PHYS 110G or above	4

Two courses from the following

A ST 456	Statistical Methods and Data Analysis	3 cr. (2+2P)
AGRO 471	Plant Mineral Nutrition	3 cr.
BIOL 477	Applied and Environmental Microbiology	4 cr.
E S 301	Principles of Ecology	3 cr.
E S 370	Environmental Soil Science	3 cr.
EPWS 455	Advanced Integrated Pest Management	3 cr.
EPWS 462	Parasitology	3 cr.
E S 370	Environmental Soil Science	3 cr.
EPWS 451	Special Topics	1-4 cr.
EPWS 481	Plant Nematology	3 cr. (2+2P)
GEOG 381	Cartography and Geographic Information Systems	4 cr. (3+3P)
SOIL 257	Introduction to Weather Science	4 cr. (3+3P)
SOIL 312	Soil Management and Fertility	3 cr.
TOX 423	Environmental Toxicology	3 cr.