

## Concentration: Applied Microbiology

The Applied Microbiology biotin prepare 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
BIOL 311 L	General Microbiology Laboratory	2
BIOL 451	Physiology of Microorganisms	3
BIOL 473	Ecology of Microorganisms	3
CHEM 313	Organic Chemistry I	3
CHEM 314	Organic Chemistry II	3
CHEM 315	Organic Chemistry Laboratory	2
EPWS 373	Fungal Biology	3
EPWS 420	Environmental Behavior of Pesticides	3
EPWS 486	Plant Virology	3
MATH 142G	Calculus for the Biological and Management Sciences	3
PHYS 211G	General Physics I	3
PHYS 212GL	General Physics II Laboratory	1
Select 6-7 credits from the following:		6-7
A ST 456	Statistical Methods and Data Analysis	3
AGRO 471	Plant Mineral Nutrition	3
BIOL 477	Applied and Environmental Microbiology	4
E S 301	Principles of Ecology	3
E S 370	Environmental Soil Science	3
EPWS 455	Advanced Integrated Pest Management	3
EPWS 462	Parasitology	3
EPWS 481	Plant Nematology	3
EPWS 492	Diagnosing Plant Disorders	3
FSTE 320	Food Microbiology	4
SOIL 252	Soils	3

SOIL 312	Soil Management and Fertility	3
SOIL 476	Soil Microbiology	3
TOX 361	Basic Toxicology	3
<b>Total Credits</b>		<b>42-43</b>