

Advisor Approved Electives - 2005-2007 Catalog

Advisor Approved Electives (18): For convenience, courses are listed by general subject area. Select from the following electives upon consultation with your advisor. Credit is limited to a total of 4 units for BIO 400, BIO 450, and BIO 462. At least 10 units must be at the 300/400 level.

Biotechnology

MCRO 433 Microbial Biotechnology (3)
ASCI 403 Applied Biotechnology in Animal Science (5)
BIO/CHEM 375 Molecular Biology Laboratory (2)
BIO/CHEM 476 Gene Expression Laboratory (2)
BIO 447 Bioinformatics Applications (4)
BOT 450 Plant Biotechnology Laboratory (2)
EHS 425 Tissue Culture Propagation (3)
BRAE 448 Bioconversion (3)
CHEM 331 Quantitative Analysis (5)
CHEM 372 Metabolism (3)
CHEM 373 Molecular Biology (3)
CHEM 474 Protein Techniques Laboratory (2)
CHEM 478 Pharmaceutical Development (3)
SCM 201 Orientation to Biotechnology (1)

Food Microbiology

MCRO 421 Food Microbiology (4)
DSCI 402 Qual Assurance and Cont of Dairy Prods (4)
DSCI 434 Cheese and Fermented Dairy Foods (4)
DSCI 444 Dairy Microbiology (4)
FSN 230 Elements of Food Processing (4)
FSN 275 Prin of Food Safety and Hazard Analysis (4)
FSN 335 Food Quality Assurance (4)
FSN 341 Wines and Fermented Foods (3)
FSN 364 Food Chemistry (4)
FSN 368 Food Analysis (4)
FSN 374 Food Laws and Regulations (4)
FSN 474 Advanced Food Processing (4)

Medical and Public Health Microbiology

MCRO 320 Emerging Infectious Diseases (3)
MCRO 342 Sanitary Microbiology (4)
BIO 162 Form and Function (5)
BIO 432 Vertebrate/Human Anat and Phy I (4)
BIO 433 Vertebrate/Human Anat and Phys II (4)
CHEM 331 Quantitative Analysis (5)
CHEM 349 Chemical and Biological Warfare (4)
CHEM 377 Chemistry of Drugs and Poisons (3)
CHEM 473 Immunochemistry (3)
CHEM 477 Biochemical Pharmacology (3)
VS 203 Animal Parasitology (3)
VS 312 Production Medicine (3)
VS 320 Zoonoses and Veterinary Public Health Conc (4)
VS 438 Systemic Animal Physiology (4)
VS 440 Immunology and Diseases of Animals (4)
KINE 301 Functional Muscle Anatomy (1)
ZOO 425 Parasitology (4)
ZOO 428 Hematology (4)

Microbial Ecology and Evolution

MCRO 436 Microbial Diversity and Ecology (5)
BIO 325 General Ecology (4)
BIO 343 Principles of Systematic Biology (4)
BIO 414 Evolution (4)
CHEM 341 Environmental Chem: Water Pollution (3)
CHEM 342 Environmental Chem: Air Pollution (3)
ENVE 434 Water Quality Measurements (2)
SS 422 Soil Microbiology and Biochemistry (4)

Other Electives for Microbiology Majors

BIO 342 Computer Applications in Biology (3)
BIO 400 Special Problems for Advanced Undergraduates (1-2)
BIO 361 Principles of Physiology (4)
BIO 434 Environmental Physiology (4)
BIO 450 Undergraduate Laboratory Assistantship (1-4)
BIO 462 Senior Project II (2)
BOT 323 Plant Pathology (4)
CHEM 318 Organic Chemistry III (5)
CHEM 319 Advanced Organic Chemistry Lab (2)
CHEM 419 Bioorganic Chemistry (3)
CHEM 472 Plant Biochemistry (3)
MATH 151 Calculus Laboratory I (1)
MATH 162 Calculus for the Life Sciences II (4)
PPSC 311 Agricultural Entomology (4)
PPSC 441 Biological Control for Pest Management (4)
SCM 451 Ethics in the Sciences (3)
STAT 313 Appl Exp Design and Regression Models (4)
STAT 419 Applied Multivariate Statistics (4)
STAT 421 Sampling Techniques (4)
ZOO 335 General Entomology (4)
ZOO 336 Invertebrate Zoology (4)
ZOO 436 Comparative Invertebrate Physiology (4)