

Spring 2024 - Upper-Level Bioloy Courses for the Biochemistry Major

COURSE CODE	COURSE TITLE	CREDITS
AGRONOMY 300	Cropping Systems	3
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/A A E/NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/HORT/SOIL SCI 326	Plant Nutrition Management	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI/NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/F&W ECOL/ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ZOOLOGY 521	Birds of Southern Wisconsin	3
AN SCI/FOOD SCI 515	Commercial Meat Processing	2
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 435	Fundamentals of Human Physiology	5
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
BIOCHEM/GENETICS/MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/M M & I 575	Biology of Viruses	2
BIOCHEM/NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM/NUTR SCI 619	Advanced Nutrition: Intermediary Metabolism of Macronutrients	3
BOTANY 401	Vascular Flora of Wisconsin	4
BOTANY 422	Plant Geography	3
BOTANY 500	Plant Physiology	3 to 4
BOTANY/AMER IND/ANTHRO 474	Ethnobotany	3 to 4
BOTANY/ANTHRO/ZOOLOGY 410	Evolutionary Biology	3

BOTANY/ENTOM/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/ENTOM/ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/F&W ECOL/ZOOLOGY 651	Conservation Biology	3
BOTANY/F&W ECOL/ZOOLOGY 460	General Ecology	4
BOTANY/PL PATH 332	Fungi	4
BOTANY/PL PATH 563	Phylogenetic Analysis of Molecular Data	3
BSE 349	Quantitative Techniques for Biological Systems	3
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
CHEM 575	Advanced Topics in Chemistry (Topics in Chemical Biology)	3 to 4
ENTOM/ZOOLOGY 302	Introduction to Entomology	4
ENVIR ST/LAND ARC 361	Wetlands Ecology	3
ENVIR ST/POP HLTH 471	Introduction to Environmental Health	3
F&W ECOL 300	Forest Biometry	4
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4
F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 561	Wildlife Management Techniques	3
F&W ECOL 655	Animal Population Dynamics	3
F&W ECOL/ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
FOOD SCI 511	Chemistry and Technology of Dairy Products	3
FOOD SCI 514	Integrated Food Functionality	4
FOOD SCI 550	Fermented Foods and Beverages	2
FOOD SCI 611	Chemistry and Technology of Dairy Products	3
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3
GENETICS 545	Genetics Laboratory	2
GENETICS 566	Advanced Genetics	3

M M & I/ENTOM/PATH-BIO/ZOOLOGY 350	Parasitology	3
MED PHYS/B M E/H ONCOL/PHYSICS 501	Radiation Physics and Dosimetry	3
MED PHYS/H ONCOL 410	Radiobiology	2 to 3
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 551	Capstone Research Project in Microbiology	2
MICROBIO/SOIL SCI 523	Soil Microbiology and Biochemistry	3
NTP/NEURODPT/PSYCH 611	Systems Neuroscience	4
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI 431	Nutrition in the Life Span	3
PHM SCI 310	Drugs and Their Actions	2
PHM SCI/B M E 430	Biological Interactions with Materials	3
PSYCH 454	Behavioral Neuroscience	3
SOIL SCI/CIV ENGR/M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2
ZOOLOGY/ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ENVIR ST 511	Ecology of Fishes Lab	2