

Fall 2026 - Upper-Level Biology Courses for the Biochemistry Major

Click [HERE](#) to see full list of options in the Guide (open "Option A (Introductory and Upper-Level Biology)").

NEW COURSES IN BIOCHEMISTRY FOR UPPER-LEVEL BIOLOGY		
BIOCHEM 375, SECTION 003	Biochemistry of the Brain	3
BIOCHEM 375, SECTION 005	Protein Engineering Strategies	1
<i>*Additional information for these courses can be found HERE</i>		
COURSE CODE	COURSE TITLE	CREDITS
AGROECOL 370	Grassland Ecology	3
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
AN SCI/FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI/DY SCI 434	Reproductive Physiology	3
B M E/MED PHYS/PHMCOL-M/PHYSICS/RADIOL 619	Microscopy of Life	3
BIOCHEM/NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 601	Protein and Enzyme Structure and Function	2

BIOCHEM/GENETICS/MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/GENETICS 631	Plant Genetics and Development	3
BIOCHEM/NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 461	Food and Bioprocessing Operations	3
B M I/STAT 541	Introduction to Biostatistics	3
B M I/COMP SCI 576	Introduction to Bioinformatics	3
BOTANY 300	Plant Anatomy	4
BOTANY 330	Algae	3
BOTANY 400	Plant Systematics	4
BOTANY/F&W ECOL 402	Dendrology: Woody Plant Identification and Ecology	3
BOTANY/ANTHRO/ZOOLOGY 410	Evolutionary Biology	3
BOTANY/F&W ECOL/ZOOLOGY 460	General Ecology	4
BOTANY/ENVIR ST/F&W ECOL/ZOOLOGY 516	Conservation Biology	3
BOTANY/GENETICS/M M & I/PL PATH 655	Biology and Genetics of Fungi	3
CRB 625	Stem Cell Seminar	1

CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3
DY SCI 378	Lactation Physiology	3
DY SCI 535	Dairy Farm Management Practicum	3
ENTOM/ZOOLOGY 302	Introduction to Entomology	4
ENTOM/ZOOLOGY 371	Medical Entomology: Biology of Vector and Vector-borne Diseases	3
ENVIR ST/POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/F&W ECOL 515	Natural Resources Policy	3
FOOD SCI/MICROBIO 324	Food Microbiology Laboratory	2
FOOD SCI/MICROBIO 325	Food Microbiology	3
FOOD SCI 410	Food Chemistry	3
FOOD SCI 440	Principles of Food Engineering	3
F&W ECOL/ENVIR ST/ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 561	Wildlife Management Techniques	3
GEN&WS 533	Special Topics in Gender and Biology	3
GENETICS 466	Principles of Genetics	3

GENETICS 467	General Genetics 1	3
GENETICS 545	Genetics Laboratory	2
GENETICS/MD GENET 565	Human Genetics	3
M M & I/PATH-BIO 528	Immunology	3
MED PHYS/B M E/H ONCOL/PHYSICS 501	Radiation Physics and Dosimetry	3
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
MICROBIO 626	Microbial and Cellular Metabolomics	3
NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3
NTP/NEURODPT 610	Cellular and Molecular Neuroscience	4
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI 379	Introduction to Epidemiology	3
ONCOLOGY 401	Introduction to Experimental Oncology	2

ONCOLOGY/M&ENVTOX/PHM SCI/P HMCOL-M/POP HLTH 625	Toxicology I	3
PL PATH 300	Introduction to Plant Pathology	4
PL PATH 517	Plant Disease Resistance	2 to 3
PL PATH/M M & I/ONCOLOGY 640	General Virology-Multiplication of Viruses	3
PLANTSCI 320	Environment of Cultivated Plants	3
PLANTSCI 340	Plant Genome Engineering and Editing	3
PLANTSCI 501	Principles of Plant Breeding	3
PLANTSCI/ATM OCN 532	Environmental Biophysics	3
SOIL SCI 323	Soil Biology	3
SOIL SCI/F&W ECOL 451	Environmental Biogeochemistry	3
ZOOLOGY/ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2 to 3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY/PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology	3

ZOOLOGY 570	Cell Biology	3
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