

Active Upper-level Biology Lectures and Labs

Prefix	Number	Title	Lecture	Lab	Credits	When offered? (can vary)
General Biology courses						
BIOL	L312	Cell Biology lecture	✓		3	Fall/Spring
BIOL	L313	Cell Biology laboratory		✓	3	Fall/Spring
BIOL	L319	Genetics laboratory		✓	3	Fall/Spring
BIOL	L323	Molecular Biology lab		✓	3	Fall
BIOL	L324	Human Molecular Biology lab		✓	3	Spring
BIOL	L388	Digital Biology	✓		3	Spring
BIOL	L410	Topical Issues in Biology	✓		3	Fall/Spring
BIOL	L411	Adv. Gene Regulation: Transcription, Epigenetics, & Human Disease	✓		3	Spring
BIOL	L485	Genetics, Models of Human Disease, & Critical Analysis of Research	✓		3	Fall
BIOL	L486	Advanced Cell Biology	✓		3	Alternate springs
BIOL	L487	Molecular Mechanisms of Development & Disease	✓		3	Spring
BIOL	S211	Molecular Biology, Honors [<small>★ see note above re: BIOL-L 323/L 324</small>]		✓	5	Fall only; not offered Fall 2024
BIOL	S318	Evolution, Honors		✓	4	Variable
BIOL	Z462	Genetics of Behavior	✓		3	Variable
Plant-Related courses						
BIOL	B300	Vascular Plants	✓	✓	4	Spring
BIOL	B370	Plants and Human Affairs in the Genome Engineering Era	✓		3	Fall
BIOL	B371	Ecological Plant Physiology	✓		3	Fall
Animal-Related courses						
ABEH	A350	Animal Behavior Laboratory (P: ABEH-A 101 or BIOL-Z 460)		✓	3	Fall/Spring
BIOL	L331	Intro to Human Genetics	✓		3	Fall/Spring
BIOL	L376	Biology of Birds	✓	✓	4	Fall/Spring
BIOL	L417	Developmental Biology and Stem Cells	✓		3	Spring only; not offered Spring 2025
BIOL	L423	Brain, Behavior and Evolution	✓		3	Rarely offered
BIOL	Z373	Entomology (insects)	✓	✓	3	Fall, sometimes Summer
BIOL	Z374	Invertebrate Zoology	✓		3	Variable (Fall)
BIOL	Z375	Invertebrate Zoology laboratory		✓	2	Fall
BIOL	Z406	Vertebrate Zoology	✓	✓	5	Spring
BIOL	Z460	Animal Behavior (Ethology)	✓		3	Fall/Spring (not in Spring 2025)
BIOL	Z463	Comparative Neurobiology of Animal Behavior	✓		3	Alternate Falls - next in Fall 2025
BIOL	Z476	Biology of Fishes	✓		3	Variable (Fall)
Ecology and Environmental courses						
BIOL	L307	Biodiversity	✓	✓	3	Fall
BIOL	L326	Biodiverse-City	✓		3	Variable
BIOL	L402	Ecosystems and Global Change	✓		3	Variable (Spring)
BIOL	L433	Tropical Biology - Costa Rica / Grand Cayman		✓	3	Winter/Summer
BIOL	L453	Sensory Ecology	✓		3	Alternate springs
BIOL	L465	Advanced Field Biology		✓	3	Variable (Summer)
BIOL	L473	Ecology	✓		3	Fall
BIOL	L474	Field and Laboratory Ecology		✓	3	Fall/Summer
EAS	E341	Natural History of Coral Reefs (formerly GEOL-G 341)	✓		3	Spring
EAS	X377	Field Geo-Paleoanthropology - in Tanzania	✓	✓	6	Variable
SPEA	E455	Limnology	✓	✓	4	Fall
SPEA	E457	Intro to Conservation Biology	✓		3	Variable
Anatomy/Physiology/Health Professions-Related courses						
ANAT	A464	Human Tissue Biology	✓	✓	4	Fall/Spring
ANAT	A487	Advanced Human Anatomy (P: ANAT-A 215 or instructor consent)	✓	✓	4	Alternate Springs (next in Spring 2025)
BIOL	L321	Human Immunology	✓		3	Spring
BIOL	L328	Disease Ecology and Evolution	✓		3	Variable
BIOL	L412	Analysis of Cancer Research	✓		3	Rarely offered
BIOL	L413	Translational Medicine: From Bench to Bedside	✓		3	Fall
BIOL	P451	Integrative Human Physiology	✓	✓	4	Fall/Spring
BIOL	Z466	Endocrinology	✓		3	Fall
BIOL	Z469	Endocrinology laboratory		✓	2	Variable
MSCI	M470	Mechanisms of Human Disease	✓		3	Variable
MSCI	M480	Molecular Biology of Cancer: Cell Signaling and Fate	✓		3	Spring
MSCI	M485	Physiology of Human Disease	✓		4	Variable
PHSL	P416	Comparative Animal Physiology	✓		3	Variable
PSY	P466	Molecular and Cellular Neurobiology	✓		3	Fall, sometimes Spring
PSY	P467	Diseases of the Nervous System	✓		3	Spring
PSY	P473	Lab in Molecular Neuroscience		✓	4	Spring, sometimes Fall

NOTE: Some courses might not be offered in the semester(s) indicated. Course offerings may vary.

The following courses do NOT count as upper-level Biology lectures or labs: BIOL-L 322, BIOL-X 371, BIOL-X 473, BIOL-X 490, BIOT-T 301, BIOT-T 312, BIOT-T 322, and BIOT-X 498. This is also true of some other 300/400-level Biology courses. Please check this list or ask a Biology advisor before assuming a class will count as a lecture or lab.

★ Most courses have prerequisites. Always check the Bulletin Course Description and Schedule of Classes for course information before taking a course.

Over for Microbiology, Molecular Life Sciences, Biotechnology, and Biochemistry courses →

Active Upper-Level Biology Lectures and Labs, continued –

Prefix	Number	Title	Lecture	Lab	Credits	When offered? (can vary)
Microbiology courses						
BIOL	L472	Microbiomes: Host and Environmental Health	✓		3	Variable
BIOL	M315	Microbiology laboratory (credit given for only 1 of M315 or M316)		✓	2	Fall/Summer/sometimes Spring
BIOL	M316	Molecular Microbiology Lab (credit given for only 1 of M315 or M316)		✓	3	Variable
BIOL	M350	Microbial Physiology and Biochemistry	✓		3	Spring
BIOL	M360	Microbial Physiology laboratory		✓	3	Spring/sometimes Fall
BIOL	M375	Human Parasitology (same course as MSCI-M 375)	✓	✓	4	Variable (Spring)
BIOL	M380	Microbiology of Infectious Disease	✓		3	Fall, also Summer 2023!
BIOL	M416	Biology of AIDS lecture	✓		3	Rarely offered
BIOL	M430	Virology lecture	✓		3	Spring
BIOL	M435	Viral-Tissue-Culture laboratory		✓	3	Spring
BIOL	M440	Medical Microbiology lecture	✓		3	Fall
BIOL	M445	Medical Microbiology laboratory		✓	3	Fall
BIOL	M465	Environmental Microbiology Laboratory		✓	3	Variable
BIOL	M480	Microbial and Molecular Genetics	✓		3	Fall
BIOL	M485	Microbial and Molecular Genetics laboratory		✓	3	Variable
MSCI	M375	Parasitology (same course as BIOL-M 375)	✓	✓	4	Variable (Spring)
Molecular Life Sciences courses						
MLS	M388	Digital Biology: Bioinformatics	✓		3	Spring
MLS	M410	Protein Metabolism	✓		3	Fall
MLS	M420	Genome Duplication and Maintenance	✓		3	Fall
MLS	M430	Advanced Gene Regulation: Trans, Epigen, & Human Disease	✓		3	Spring
MLS	M440	Membranes and Signal Transduction	✓		3	next offered in Spring 2025
MLS	M450	Molecular Mechanisms of Cancer	✓		3	Fall
Biotechnology courses						
BIOT	T310	Biotechnology lecture	✓		3	Fall
BIOT	T315	Biotechnology laboratory		✓	3	Fall/Spring
BIOT	T415	Theory and Applications of Biotechnology Lab		✓	3	Spring
BIOT	T425	Lab in Macromolecules		✓	3	Fall (not offered Fall 2024)
BIOT	T440	Structure, Function, and Regulation of Biomolecules	✓		3	Spring
Biochemistry courses						
CHEM	C383	Human Biochemistry	✓		3	Fall/Spring
CHEM	C483	Biological Chemistry	✓		3	Fall/Spring/sometimes Summer
CHEM	C484	Biomolecules and Catabolism	✓		3	Fall/Spring

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