

Approved Advanced Biology Classes

Note: Some classes may not be offered during the semester indicated.

Check the schedule of classes (<http://schedule.msu.edu/>) for the most up-to-date listings of course offerings

Course Num. (Cr-Sem)	Course Name	Course Num. (Cr-Sem)	Course Name
ANS 407 (3-F)	Food and Animal Toxicology	MMG 431 (3-F)	Microbial Genetics
ANTR 350 (3-F,S,Sum)	Human Gross Anatomy & Structural Biology	MMG 433 (3-S)	Microbial Genomics
BMB 490 (1-3cr F,S,Sum) OR BMB 499 (1-3cr F,S,Sum)	Independent Research <i>(up to 3 credits for either)</i> Senior Thesis (<i>research component</i>)	MMG 451 (3-F)	Immunology
BLD 439 (1-S)	Histocompatibility and Immunogenetics	MMG 461 (3-S,even)	Molecular Pathogenesis
BLD 446 (1-S)	Immunobiology of Neoplasia	MMG 463 (3-F)	Medical Microbiology <i>(by override from MMG)</i>
BLD 447 (1-S)	Immunomodulation and Immunotherapy	NEU 300 (4-F,S)	Neurobiology
CEM 333 (3-S)	Instrumental Methods and Applications	NEU 420 (3-S)	Neurobiology of Disease
CEM 485 (3-S,even)	Modern Nuclear Chemistry		
CSS 350 (3-S)	Introduction to Plant Genetics	NEU 440 (3-S,even)	Synaptic Transmission
CSS 441 (3-S,even)	Plant Breeding and Biotechnology	NSC 491(1-F)	Job Search Strategies For Science Majors <i>(Preference given to College of Natural Science Sophomore, Junior, and Senior students)</i>
CSS 451 (3-S)	Biotechnology Applications For Plant Breeding and Genetics	OST 401 (1-F,S)	Selected Topics in Osteopathic Medicine
ENT 461 (3-US)	Field Ecology of Arthropod Disease Vectors <i>(Available at Kellogg Biological Station - enroll through KBS)</i>	PHM 321 (3-S)	Common Drugs
FSC 401 (3-F)	Food Chemistry	PHM 350 (3-F,S,Sum)	Introductory Human Pharmacology
FSC 402 (1-F)	Food Chemistry Laboratory	PHM 351 (2-S)	Fundamentals of Drug Safety
FSC 440 (3-S)	Food Microbiology	PHM 422 (2-S)	Fundamentals of Neuropharmacology
FSC 441 (2-S)	Food Microbiology Laboratory	PHM 431 (3-F)	Pharmacology of Drug Addiction
FSC 455 (3-F)	Food and Nutrition Laboratory	PHM 440 (1-US)	Principles of Drug Action
GLG 421 (4-S)	Environmental Geochemistry	PHM 450 (3-F,S,Sum)	<i>Introduction to Chemical Toxicology</i>
IBIO 316 (3-S)	General Parasitology	PHM 454 (3-F,S)	<i>Leadership and Teams For Scientists and Health Professionals</i>
IBIO 320 (4-F)	Developmental Biology	PHM 483 (3-F,S)	Antimicrobial Chemotherapy
IBIO 328 (4-S)	Comparative Anatomy and Biology of Vertebrates (W)	PLB 301 (3-F)	Introductory Plant Physiology
IBIO 341 (4-F,S,Sum)	Fundamental Genetics	PLB/MMG/BMB 400(3- F,even)	Introduction to Bioinformatics
IBIO 403 (4-S,odd)	Integrative Neurobiology	PLB/PLP 402 (4-F,odd)	Biology of Fungi
IBIO 408 (4-F)	Histology	PLB 415 (3-S)	Plant Physiology
IBIO 425 (4-S)	Cells and Development (W)	PLB 416L (2-S)	Plant Physiology Laboratory
IBIO 445 (3-F,S,Sum)	Evolution (W)	PLB 434 (4-F,even)	Plant Structure and Function
IBIO 450 (3-S)	Cancer Biology (W)	PLP 405 (4-S)	Plant Pathology
IBIO 483 (4-S)	Environmental Physiology (W)	PSL 310 (4-F,S,Sum)	Physiology For Pre-Health Professionals
LB 348 (3-S)	Research Experiences in Biology: Exploring Genomes and Personal Genomics Data <i>(restricted to Lyman Briggs Students)</i>	PSL 311L (2-F,S)	Physiology Lab for Pre-Health Professionals
MMG 301 (3-F,S,Sum)	Introductory Microbiology	PSL 425 (3-F,S)	Physiological Biophysics
MMG 302 (1-F,S,Sum)	Introductory Laboratory For General & Allied Health Microbiology	PSL 431 (4-F)	Human Physiology I
MMG 404 (3-F)	Human Genetics	PSL 432 (4-S)	Human Physiology II
MMG 408 (3-F)	Advanced Microbiology Laboratory (W) <i>(by override from MMG)</i>	STT 231 (3-F,S,Sum)	Statistics For Scientists
MMG 409 (3-S)	Eukaryotic Cell Biology	STT 464 (3-F)	Statistics For Biologists
MMG 413 (3-S)	Virology		
MMG 421 (3-F)	Prokaryotic Cell Physiology		