Approved 300-400 Level BMB Selectives

December 2020

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

Course Num. (Cr-Sem)	Course Name	Course Num. (Cr-Sem)	Course Name
ANP 441 (4)	Osteology and Forensic Anthropology	MMG 302 (1)	Introductory Laboratory For General & Allied Health Microbiology
ANS 314 (4)	Genetic Improvement of Domestic Animals (W)	MMG 365 (3)	Medical Microbiology (*by override from MMG*) *(Formerly MMG 463)*
ANS 315 (4)	Anatomy and Physiology of Farm Animals	MMG 404 (3)	Human Genetics
ANS 404 (3)	Introduction to Quantitative Genetics	MMG 408 (3)	Advanced Microbiology Laboratory (W) (*by override from MMG*)
ANS 407 (3)	Food and Animal Toxicology	MMG 409 (3)	Eukaryotic Cell Biology
ANS 409 (4)	Problems, Controversies and Advancements in Reproduction (W)	MMG 413 (3)	Virology
ANS 427 (3)	Environmental Toxicology and Society	MMG 421 (3)	Prokaryotic Cell Physiology
ANTR 350 (3)	Human Gross Anatomy & Structural Biology	MMG 431 (3)	Microbial Genetics
ANTR 355 (1)	Human Gross Anatomy Laboratory	MMG 433 (3)	Microbial Genomics
BMB 490 (1-3cr) **OR** BMB 499 (1-3cr)	Independent Research (***up to 3 credits for either***) Senior Thesis (*research component*)	MMG 451 (3)	Immunology
BMB 800- level courses	By Instructor Approval and Override	MMG 461 (3 – S even yrs)	Molecular Pathogenesis
BIO 405 (3)	Neural Basis of Animal Behavior	NEU 300 (4)	Neurobiology
BLD 439 (1)	Histocompatibility and Immunogenetics	NEU 310 (3)	Psychology and Biology of Human Sexuality
BLD 446 (1)	Immunobiology of Neoplasia	NEU 333 (3)	The Neurobiology of Food Intake and Overeating
BLD 447 (1)	Immunomodulation and Immunotherapy	NSC 491(1)	Job Search Strategies For Science Majors (*Preference given to CNS students*)
CEM 333 (3)	Instrumental Methods and Applications	OST 401 (1)	Selected Topics in Osteopathic Medicine
CEM 485(3- S even yrs)	Modern Nuclear Chemistry	PHM 321 (3)	Common Drugs
CMSE 410 (3)	Bioinformatics and Computational Biology	PHM 350 (3)	Introductory Human Pharmacology
CMSE 411(3–F even yrs)	Computational Medicine	PHM 351 (2)	Fundamentals of Drug Safety
CSS 350 (3)	Introduction to Plant Genetics	PHM 421 (3)	Clinical Toxicology
CSS 441 (3)	Plant Breeding and Biotechnology	PHM 422 (2)	Fundamentals of Neuropharmacology
CSS 451 (3)	Biotechnology Applications For Plant Breeding and Genetics	PHM 431 (3)	Pharmacology of Drug Addiction
CSS 455 (3)	Environmental Pollutants in Soil and Water	PHM 440 (1)	Principles of Drug Action
FSC 401 (3)	Food Chemistry	PHM 450 (3)	Introduction to Chemical Toxicology
FSC 402 (1)	Food Chemistry Laboratory	PHM 454 (3)	Leadership and Teams for Scientists and Health Professionals *(JRs and SRs only)*
FSC 440 (3)	Food Microbiology	PHM 461 (2)	Tropical Medicine Pharmacology
FSC 441 (2)	Food Microbiology Laboratory	PHM 483 (3)	Chemotherapy of Infectious Diseases
FSC 455 (3)	Food and Nutrition Laboratory	PHM 492 (2)	Pharmacotherapy of Human Viral Infections
FOR 875 (3)	R Programming for Data Science (*by override from FOR*)	PLB 301 (3)	Introductory Plant Physiology
GLG 421 (4)	Environmental Geochemistry	PLB/PLP 402 (4 – F odd yrs)	Biology of Fungi
GLG 435 (4)	Geomicrobiology	PLB 415 (3)	Plant Physiology
IBIO 405 (3)	Neural Basis of Animal Behavior	PLB 416L (2)	Plant Physiology Laboratory
IBIO 320 (4)	Developmental Biology	PLB 480 (3)	Epigenetics
IBIO 328 (4)	Comparative Anatomy and Biology of Vertebrates (W)	PLP 405 (4)	Plant Pathology
IBIO 341 (4)	Fundamental Genetics	PSL 310 (4)	Physiology for Pre-Health Professionals
IBIO 408 (4)	Histology	PSL 311L (2)	Physiology Lab for Pre-Health Professionals
IBIO 425 (4)	Cells and Development (W)	PSL 425 (3)	Physiological Biophysics
IBIO 445 (3)	Evolution (W)	PSL 431 (4)	Human Physiology I
IBIO 450 (3)	Cancer Biology (W)	PSL 432 (4)	*Human Physiology II*
LB 348 (3)	Research Experiences in Biology: Exploring Genomes and Personal Genomics Data (*restricted to Lyman Briggs Students*)	STT 231 (3)	Statistics For Scientists
MMG 301 (3)	Introductory Microbiology	STT 464 (3)	Statistics For Biologists