400 - Level Selections

Select 6 units from the following 400-level lecture courses.

BIOTC/AGRO 460 Advances and Applications of Plant Biotechnology, 3 units
BMB 400 Molecular Biology of the Gene, 2 units (Prerequisites include CHEM 212)
BMB 428 Physical Chemistry with Biological Applications, 3 units
BMB/BIOL 430 Developmental Biology, 3 units
BMB/MICRB/VBSC 432 Advanced Immunology: Signaling in the Immune System, 3 units (Prerequisites: BMB 400 and MICRB 410)
BMB/MICRB/VBSC 435 Viral Pathogenesis, 3 units
BMB/MICRB/VBSC 433 Molecular and Cellular Toxicology (Prerequisite: BMB 401)
BMB/MICRB 450 Microbial/Molecular Genetics, 2 units
BMB/MICRB 460 Cell Growth and Differentiation, 3 units
BMB 464 Molecular Medicine, 3 units
BMB/MICRB 480 Tumor Viruses and Oncogenes, 3 units (Prerequisite: MICRB 415, MICRB 435, or MICRB 460)
BMB 484 Functional Genomics, 3 units
BMB 497 Bioinformatics, 3 units
FDSC 408 Food Microbiology, 3 units
MICRB 401 Microbial Physiology and Structure, 3 units
MICRB 411 Survey of Microbiology Literature, 1 unit
MICRB 412 Medical Microbiology, 3 units
MICRB 413 Microbial Diversity, 2 units
MICRB 415 General Virology: Bacterial and Animal Viruses, 3 units

400 - Level Selections - List D

In addition to 400-level BIOTC, BMB, and MICRB courses, the following courses will also be allowed as 400-level selections for this major.

BIOL 405 Molecular Evolution, 3 units
BIOL 416 Biology of Cancer, 3 units
BIOL 422 Advanced Genetics, 3 units
BIOL 426 Developmental Neurobiology, 3 units (Prerequisite: BIOL 141 or BIOL 240)
BIOL 431 Biology of Reproduction, 3 units
BIOL 432 Developmental Genetics, 3 units
BIOL 443 Evo-devo: Evolution of Developmental Mechanisms, 3 units (Prerequisite: BIOL 240)
BIOL 451 The Biology of RNA, 3 units
BIOL/ANTH 460 Human Genetics, 3 units (Prerequisite: ANTH 021 or BIOL 110 or BIOL 133 or by permission)
BIOL/BBH 469 Neurobiology, 3 units (Prerequisite: BIOL 240)
BIOL/BBH 470 Functional and Integrative Neurosciences, 3 units (Prerequisite: BIOL 469)
BIOL/GEOSC 474 Astrobiology, 3 units (Prerequisites: BIOL 110 and CHEM 110)
Free Electives - List C

With the EXCEPTION of the courses listed below, ALL courses appearing in the University Bulletin are acceptable as elective courses: 6 units of ROTC may be applied toward graduation requirements.

Students MAY NOT fulfill this requirement with lower level or general education courses in math and science (including but not limited to examples such as any BISC course, any BMB course below the 100 level, MATH 110 and 111, and the like).

Students MAY NOT fulfill this requirement with courses that significantly repeat material from courses required for the major (including but not limited to examples such as: CHEM 202 or 203 after taking CHEM 210 or 212, or vice-versa: PHYS 250 or 251 after taking PHYS 211, 212, 213, and 214, or vice versa; and so forth).

Students MAY NOT fulfill this requirement with remedial courses (including but not limited to examples such as LL ED 5 and 10; ENGL 4, 5, and 6; ESL 4 and 5; CHEM courses below CHEM 110; MATH courses below MATH 110; STAT 100; PHYS courses below PHYS 211; and the like).