BIOLOGY and MOLECULAR BIOLOGY UPPER LEVEL APPROVED ELECTIVES

BIOL 3V00 Topics in Biological Sciences
BIOL 3V40 Topics in Molecular and Cell Biology
BIOL 3V90 Readings in Biology
BIOL 3V91 Undergraduate Research in Biology
BIOL 3V92 Undergraduate Readings in Biochemistry
BIOL 3V93 Undergraduate Research in Biochemistry
BIOL 3V94 Topics in Biology
BIOL 3V95 Readings in Molecular and Cell Biology
BIOL 3V96 Undergraduate Research in Mol. & Cell Biology
BIOL 3303 Intro. To Microbiology
BIOL 3305 Evolutionary Analysis
BIOL 3310/3110 Nanomedicine
BIOL 3312 Intro to Programming in Biology
BIOL 3315 Epigenetics
BIOL 3318 Forensic Biology
BIOL 3320 Applied Genetics
BIOL 3335 Microbial Physiology
BIOL 3336 Protein and Nucleic Acid Structure
BIOL 3351 Medical Cell Biology
BIOL 3355 Pathophysiology
BIOL 3357 Mammalian Physiology w/ Lab
BIOL 3370 Exercise Physiology
BIOL 3385 Medical Histology
BIOL 3388 Honey Bee Biology
BIOL 3455 Anatomy and Physiology w/ Lab I
BIOL 3456 Anatomy and Physiology w/ Lab II
BIOL 3520 General Microbiology with Lab
BIOL 4V00 Special Topics in Biology
BIOL 4V01 Spec. Topics in Biological Sciences with Lab
BIOL 4V40 Special Topics in Molecular and Cell Biology
BIOL 4V95 Advanced Topics in Biology
BIOL 4302 TA Apprenticeship
BIOL 4305 Molecular Evolution
BIOL 4310 Cellular Microbiology
BIOL 4315 Genes, Disease and Therapeutics
BIOL 4317 Cellular and Molecular Medicine of Human Disease
BIOL 4320 Cell Migration in Health and Disease
BIOL 4325 Nutrition and Metabolism
BIOL 4330 Advanced Research in Molecular and Cell Biology
BIOL 4337 Seminal Papers in Biology
BIOL 4340 Proteomics
BIOL 4341 Genomics
BIOL 4342 Regulation of Gene Expression
BIOL 4345 Immunobiology
BIOL 4350 Medical Microbiology
BIOL 4352 Medical Molecular and Cell Biology

BIOL 4353 Molecular Biology of HIV/AIDS
BIOL 4356 Molecular Neuropathology I
BIOL 4357 Molecular Neuropathology II
BIOL 4360 Evolution and Development
BIOL 4365 Advanced Human Physiology
BIOL 4366 Molecular Biology of Cancer
BIOL 4371 General and Molecular Virology
BIOL 4375 Bioinformatics
BIOL 4385 Oral Histology and Embryology
BIOL 4390 Senior Readings in Molecular and Cell Biology
BIOL 4391 Senior Research in Molecular & Cell Biology
BIOL 4398 Senior Honors Readings in Mol. & Cell Biology
BIOL 4399 Senior Honors Research and Thesis
BIOL 4461 Biophysical Chemistry
CHEM 3321 Physical Chemistry I
CHEM 3322 Physical Chemistry II
CHEM 3341 Inorganic Chemistry
CHEM 3472 Instrumental Analysis
CHEM 4335 Polymer Chemistry
CHEM 4381 Environmental Chemistry
CHEM 4473 Physical Measurements Lab
NSC 4V90 Spec. Topics in Neuroscience: Neonatal Neurology
NSC 4V90 Spec. Topics In Neuroscience: Human Neuroscience Lab
NSC 4V90 Spec. Topics In Neuroscience: Neurogenetics
NSC 4351 Medical Neuroscience
NSC 4352 Cellular Neuroscience
NSC 4353 Neuroscience Lab Methods
NSC 4354 Integrative Neuroscience
NSC 4358 Neurobiology of Pain
NSC 4367 Developmental Neurobiology
NSC 4370 Neuroendocrinology
NSC 4373 Sensory Neuroscience
NSC 4382 Neurobiology of Emotion

1Independent Study Courses
B. S. – max. of 6 hours Independent Study may be used for UL approved
B. A. – max. of 3 hours of Independent Study may be used for UL approved
2Offered only in Spring Semester
3A maximum of 3 hours of NSC Courses may be used for UL approved elective hours
4BIOL 4302 may only be used once for UL approved elective hours; additional hours will be used for free electives
5A max. of 3 hours of CHEM Courses may be used for UL approved elective hours
6May be offered in future semesters
7BIOL 4461 may only be used as an UL approved elective by Biology Majors

School of Natural Sciences and Mathematics, Office of Undergraduate Academic Advising
(Revised 11.4.2020)