# 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
- **Biol 3456** Anatomy and Physiology w/ Lab
- **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
- **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
- **Chem 3322** Physical Chemistry II
- **Chem 3341** Inorganic Chemistry
- **Chem 3472** Instrumental Analysis
- **Chem 3435** Polymer Chemistry
- **Chem 3438** Environmental Chemistry
- **Chem 4473** Physical Measurements
- **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 4V90** Spec. Topics in Neuroscience: Fear & Anxiety: Biology & Causes
- **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

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