

Cell & Molecular Biology Electives

Courses that can be used to satisfy the CMB core lecture elective

CELL 3210 - Cellular Physiology
CELL 3310 - Cellular Neuroscience
CELL 3320 - Systems Neuroscience
CELL 4110 - Cells and Tissues
CELL 4130 - Embryology
CELL 4160 - Developmental Biology
CELL 4200 - General Endocrinology
CELL 4220 - Microbiology
CELL 4240 - Seminar in Morbidity and Mortality (Capstone)
CELL 4250 - Principles in Immunology (Capstone)
CELL 4260 - Principles of Biomedical Writing (Capstone)
CELL 4340 - Neurobiology of Disease
CELL 4350 - Developmental Neurobiology
CELL 4370 - Molecular Neurobiology
CELL 4440 - Advanced Molecular Biology
CELL 4500 – Advanced Molecular Neurobiology
CELL 4660 - Special Topics in Cell and Molecular Biology
CELL 4710 - The Molecular Biology of Cancer
CELL 4780 - Developmental Genetics

CELL Lab Courses which can be used to satisfy the lab elective component

CELL 2110 - General Biology Laboratory
CELL 3020 - Cell Biology Laboratory*
CELL 3120 - Molecular Biology Laboratory*
CELL 3340 - Neuroanatomy Laboratory
CELL 4110 - Cells and Tissues
CELL 4230 - Microbiology Laboratory
CELL 4310 - Cellular Neuroscience Laboratory

*One of these must be used as the required laboratory course. The other can be used to satisfy one lab elective.

One lab elective component can be satisfied by one of the following involving independent laboratory research:

CELL 4910 - Independent Studies
CELL 4920 - Independent Studies
CELL 4950 – Special Topics in Cell and Molecular Biology
CELL 4960 – Special Topics in Cell and Molecular
CELL H4990 - Honors Thesis
CELL H5000 - Honors Thesis

CELL Courses which can be used to as a lecture or lecture/lab elective

CELL 3050 - Foundations of Pharmacology
CELL 3210 - Cellular Physiology
CELL 3310 - Cellular Neuroscience
CELL 3320 - Systems Neuroscience
CELL 4110 - Cells and Tissues
CELL 4130 - Embryology
CELL 4160 - Developmental Biology
CELL 4200 - General Endocrinology
CELL 4220 - Microbiology
CELL 4240 - Seminar in Morbidity and Mortality (Capstone)
CELL 4250 - Principles in Immunology (Capstone)
CELL 4260 - Principles of Biomedical Writing (Capstone)
CELL 4340 - Neurobiology of Disease
CELL 4350 - Developmental Neurobiology
CELL 4370 - Molecular Neurobiology
CELL 4440 - Advanced Molecular Biology
CELL 4500 - Advanced Molecular Neurobiology
CELL 4660 - Special Topics in Cell and Molecular Biology
CELL 4710 - The Molecular Biology of Cancer
CELL 4780 - Developmental Genetics
CELL 6000- Biomedical Ethics**
CELL 6080 - Advanced Developmental and Cell Biology II**
CELL 6330 - Eukaryotic Chromosome**
CELL 6360 - Topics in Cell Neuroscience**
CELL 6410 - Cellular Gene Regulation**
CELL 6490- Gross Anatomy**
CELL 6550 - Synaptic Organization of the Brain**
CELL 6630 - Cellular Neurophysiology**
CELL 6660 - Special Topics in Cell and Molecular Biology**

**6000 level courses may only be taken with the permission of the department and if prerequisites are met

Courses from other departments that can be used as a laboratory elective

CHEM 3110 + 3130 - Physical Chemistry I and Laboratory
CHEM 3120 + 3140 - Physical Chemistry II and Laboratory
CHEM 3850 - Introduction to Biochemistry Laboratory
PSYC 6520 - Biological Psychology Laboratory
PSYC 6540 - Psychopharmacology Laboratory
PSYC 6560 - Behavioral Neuroendocrinology Laboratory

Courses from other departments that can be used as lecture or lecture/lab courses

BMEN 3400- Cell & Tissue Engineering
CENG 4400 - Introduction to Gene Therapy
CHEM 6120 - Physical Biochemistry
EBIO 1010 + 1110 - Diversity of Life and Laboratory

EBIO 4240 - Host-Parasite Systems
EBIO 4230 - Molecular Evolution and Ecology
EBIO 4260 - Biodiversity and Environmental Informatics
PHYS 3210 - Molecular Biophysics and Polymer Physics
PSYC 3300 - Brain and Behavior
PSYC 6510 - Biological Psychology
PSYC 6530 - Psychopharmacology
PSYC 6550 - Behavioral Neuroendocrinology

Prerequisites for courses outside the department must be satisfied according to that departments regulations and permission to register for these courses can only be granted by the department offering the course.