Biomedical Sciences Option

The curriculum of the biomedical sciences option provides a strong background for students who plan on a career in medicine or other health profession. This option is also for students who are interested in a biomedical sciences career in research or teaching in cell biology, molecular biology, developmental biology, or neuroscience. The curriculum provides the opportunity to take the courses necessary to make a competitive application to health profession school, graduate school or to obtain a technical position. The curriculum has sufficient breadth to introduce the student to a wide range of disciplines, but is flexible enough so that students can focus, in their last two years, on areas of specific interest. Students interested in a career in a health science profession should consult the Health Professions Advising Office for information regarding admission to professional schools.

Employment opportunities, especially at the technical level, are available with a B.S. in Cell Biology and Neuroscience. However, this curriculum is designed to better prepare students for professional or graduate training. The biomedical sciences curriculum is designed to allow the students to take basic courses in physical sciences while tailoring the courses in life sciences to meet their personal objectives and interests. This is done by allowing 24 of the required credits in Biology to be examples of elective courses include, but are not limited to:

- Genes and Cancer
- Sensory Neurophysiology
- Molecular basis of neurological diseases
- Neuroethology
- Cognitive Neuroscience
- Neuroscience of Mental Illness
- Modeling Brain Disorders
- Intro Pharmacology
- Microanatomy (Histology)
- Molecular Medicine
- Gene Expression Lab: From Genes to Proteins to Cells
- Virology

Additional Requirements
A minimum of 24 additional elective credits in the life sciences must be completed, most typically from courses in Cell Biology & Neuroscience, Microbiology and Immunology, and Biochemistry. Of these 24 credits, at least 18 must be upper division. See the department office for a full list of approved electives.

Examples of elective courses include, but are not limited to:

- Immunology
- Gene Construction
- Human Anatomy and Physiology I
- Human Anatomy and Physiology II
- Global Disease and Health Disparities
- Human Skeletal Biology
- Human Neuroanatomy
- Human Developmental Biology
- Human Pathophysiology
- Advanced Human Torso Anatomy
- Adv Human Anatomy
- Molecular Genetics
- Genes and Cancer
- Sensory Neurophysiology
- Molecular basis of neurological diseases
- Neuroethology
- Cognitive Neuroscience
- Neuroscience of Mental Illness
- Modeling Brain Disorders
- Intro Pharmacology
- Microanatomy (Histology)
- Molecular Medicine
- Gene Expression Lab: From Genes to Proteins to Cells
- Virology

Total Program Credits: 120
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.