ADVANCED MOLECULAR BIOLOGY OPTION

This option is offered within the following major(s):


The Advanced Molecular Biology option is designed for students interested in pursuing graduate work in molecular life sciences or entering the workforce in the biotechnology and pharmaceutical industries. It provides advanced training in genomics, epigenetics and other areas of current research in molecular biology, in addition to the core courses in the major. Students are strongly encouraged to participate in undergraduate research, and up to six research credits can be applied to the Upper-division Science Elective requirements. Faculty advisors work with students to help them identify electives, research opportunities, and professional internships that align with their interests.

Option Code: 972

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>BB 345</td>
<td>INTRODUCTION TO BIOLOGICAL SEQUENCE ANALYSIS</td>
<td>2</td>
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Select 19 or more credits from the following:

- BB 360  INTRODUCTION TO NEUROSCIENCE
- BB 361  NEUROSCIENCE OF SENSORY AND MOTOR SYSTEMS
- BB 401  UNDERGRADUATE RESEARCH
- BB 460  ADVANCED CELL BIOLOGY
- BB 484  CHROMATIN AND EPIGENETICS
- BB 485  APPLIED BIOINFORMATICS
- BI 311  GENETICS
- BI 445  EVOLUTION
- BOT 460  FUNCTIONAL GENOMICS
- BOT 475  COMPARATIVE GENOMICS
- BOT 476  INTRODUCTION TO COMPUTING IN THE LIFE SCIENCES
- MB 302  GENERAL MICROBIOLOGY
- MB 303  GENERAL MICROBIOLOGY LABORATORY
- MB 310  BACTERIAL MOLECULAR GENETICS
- MB 416  IMMUNOLOGY
- MB 420  MICROBIAL GENOMES, BIOGEOCHEMISTRY, AND DIVERSITY
- MB 436  THE HUMAN MICROBIOME
- ST 352  INTRODUCTION TO STATISTICAL METHODS
- Z 425  EMBRYOLOGY AND DEVELOPMENT
- Z 438  BEHAVIORAL NEUROBIOLOGY

Total Credits: 21