

The Department of Biology elective requirement must include a total of 24 elective units beyond the Bio Core. The elective units requirement\* must include at least one course from at least three of the following four areas:

**I. MOLECULAR**

Biosci 104/200 – Advanced Molecular Biology  
 Biosci 113/244 – Fundamentals of Molecular Evolution  
 Biosci 118 – Genetic Analysis of Biological Processes  
 Biosci 133 – Genetics of Prokaryotes  
 Biosci 134 – Replication of DNA  
 Biosci 188/Chemeng 181/Chem 181/281 – Biochemistry I  
 Biosci 189/Chemeng 183/Chem 183/283 – Biochemistry II  
 Biosci 230 – Molecular and Cellular Immunology  
 CBio 101/Path 101 – Cancer Biology  
 CEE 274A – Environmental Microbiology I

**II. CELL/DEVELOPMENTAL**

Biosci 115 – Signal Transduction and Development  
 Biosci 118 – Genetic Analysis of Biological Processes  
 Biosci 129A – Cellular Dynamics I: Cell Motility and Adhesion  
 Biosci 129B – Cellular Dynamics II: Building a Cell  
 Biosci 133 – Genetics of Prokaryotes  
 Biosci 134 – Replication of DNA  
 Biosci 154 – Molecular & Cellular Neurobiology  
 Biosci 158 – Developmental Neurobiology  
 Biosci 160 – Developmental Biology  
 Biosci 230 – Molecular and Cellular Immunology  
 BioHopk 183H – Environmental Cell & Developmental Biology  
 CBio 101/Path 101 – Cancer Biology  
 CEE 274A – Environmental Microbiology I

**III. ORGANISMAL**

Biosci 112 – Human Physiology  
 Biosci 124 – Plant Physiological Ecology  
 Biosci 153/Psych 120 – Cellular Neuroscience  
 Biosci 154 – Molecular & Cellular Neurobiology  
 Biosci 158 – Developmental Neurobiology  
 Biosci 163/Humbio 163 – Neural Systems & Behavior  
 Biosci 213 – Biology of Viruses  
 BioHopk 161H – Invertebrate Zoology  
 BioHopk 162H – Comparative Animal Physiology  
 BioHopk 167H – Nerve, Muscle and Synapse  
 BioHopk 169H – Neurobiology & Behavior  
 BioHopk 171H – Ecological and Evolutionary Physiology  
 Humbio 110 – Vertebrate Biology  
 MI 185 – Topics in Microbiology

**IV. POPULATION**

Biosci 101 – Ecology  
 Biosci 113/244 – Fundamentals of Molecular Evolution  
 Biosci 121 – Biogeography  
 Biosci 124 – Plant Physiological Ecology  
 Biosci 136 – Evolutionary Paleobiology  
 Biosci 142 – Topics in Theoretical Ecology  
 Biosci 143 – Evolution  
 Biosci 144/Humbio 112 – Conservation Biology  
 Biosci 145 – Behavioral Ecology  
 BioHopk 163H – Oceanic Biology  
 BioHopk 172H – Marine Ecology  
 CEE 274A – Environmental Microbiology I

<b>Course Schedule</b> <b>2007-2008</b> (Areas shown in parentheses)
<p><b>Autumn</b>                      Biosci 101 (IV)                      Biosci 143 (IV)                      Biosci 153 (III)                      Biosci 160 (II)                      Biosci 188 (I)                      Biosci 230 (I or II)                      CEE 274A (I or II or IV)</p>
<p><b>Winter</b>                      Biosci 104/200 (I)                      Biosci 112 (III)                      Biosci 129A (II)                      Biosci 144 (IV)                      Biosci 189 (I)                      Biosci 213 (III)                      BioHopk 161H (III)                      BioHopk 167H (III)                      BioHopk 169H (III)                      BioHopk 172H (IV)                      MI 185 (III)</p>
<p><b>Spring</b>                      Biosci 113/244 (I or IV)                      Biosci 115 (II)                      Biosci 118 (I or II)                      Biosci 129B (II)                      Biosci 145 (IV)                      BioHopk 183H (II)                      CBio 101 (I or II)</p>

\*The remainder of the 24 elective units can include more courses from this Central Menu, Biology courses numbered 100 or above (see Stanford Bulletin), advanced courses for which “menu courses” are prerequisites, and/or approved out-of-department electives (list available in the Student Services Office or online). Please consider taking some of these courses during your junior year, and discuss your choices with your advisor.

## Historical Central Menu Courses

This list shows all central menu courses that are either offered annually, alternate years, or not longer offered but still count.

<b>AREA I - MOLECULAR</b>		
Biosci 104/200	Advanced Molecular Biology	Active
Biosci 113/244	Fundamentals of Molecular Evolution	Active
Biosci 118	Genetic Analysis of Biological Processes	Active
Biosci 126	Cell Biology: Intracellular Trafficking & Organelle Biogenesis	Inactive
Biosci 133	Genetics of Prokaryotes	Active - alternate years, given 08-09
Biosci 134	Replication of DNA	Active
Biosci 162	Advanced Microbial Genetics and Genomics (GENE 262)	Inactive
Biosci 187	Biochemistry (CHEMENG 187, CHEM 187)	Inactive
Biosci 188	Biochemistry I (CHEMENG 288, CHEM 188)	Active
Biosci 189	Biochemistry II (CHEMENG 289, CHEM 189)	Active
Biosci 230	Molecular & Cellular Immunology	Active
Biochem 200	Biochemistry	Inactive
Biochem 201	Advanced Molecular Biology	Inactive
CBio 101	Cancer Biology	Active
CEE 274A	Environmental Microbiology I	Active
<b>AREA II – CELL/DEVELOPMENTAL</b>		
Biosci 118	Genetic Analysis of Biological Processes	Active
Biosci 126	Cell Biology: Intracellular Trafficking & Organelle Biogenesis	Inactive
Biosci 129	Cellular Dynamics	Inactive
Biosci 129A	Cellular Dynamics I: Cell Motility and Adhesion	Active
Biosci 129B	Cellular Dynamics II: Building a Cell	Active
Biosci 133	Genetics of Prokaryotes	Active - alternate years, given 08-09
Biosci 134	Replication of DNA	Active
Biosci 154	Molecular & Cellular Neurobiology	Active – alternate years, given 08-09
Biosci 158	Developmental Neurobiology	Active – alternate years, given 08-09
Biosci 160	Developmental Biology	Active
Biosci 162	Advanced Microbial Genetics and Genomics (GENE 262)	Inactive
Biosci 230	Molecular & Cellular Immunology	Active
BioHopk 183H	Environmental Cell & Developmental Biology	Active
CBio 101	Cancer Biology	Active
CEE 274A	Environmental Microbiology I	Active
<b>AREA III - ORGANISMAL</b>		
Biosci 112	Human Physiology	Active
Biosci 120	General Botany	Inactive
Biosci 124	Plant Physiological Ecology	Active
Biosci 138	Ecology & Evolution of Plants	Active
Biosci 153/Psych 120	Cellular Neuroscience	Active
Biosci 154	Molecular & Cellular Neurobiology	Active – alternate years, given 08-09
Biosci 156/256	Plant Physiology	Active
Biosci 158	Developmental Neurobiology	Active – alternate years, given 08-09
Biosci 163	Neural Systems & Behavior	Active - alternate years, given 07-08
Biosci 213	Biology of Viruses	Active
BioHopk 161H	Invertebrate Biology	Active
BioHopk 162H	Comparative Animal Physiology	Active
BioHopk 167H	Nerve, Muscle and Synapse	Active
BioHopk 169H	Neurobiology and Behavior	Active
BioHopk 171H	Ecological & Evolutionary Physiology	Active
Humbio 110	Vertebrate Biology	Active
Microbio 185	General Microbiology/Topics in Microbiology	Active
<b>AREA IV - POPULATION</b>		
Biosci 101	Ecology	Active
Biosci 113/244	Fundamentals of Molecular Evolution	Active
Biosci 121	Biogeography	Active
Biosci 124	Plant Physiological Ecology	Active
Biosci 127/220	Ecology of Microorganisms	Inactive
Biosci 136	Evolutionary Paleobiology	Active
Biosci 138	Ecology & Evolution of Plants	Inactive
Biosci 142	Topics in Theoretical Ecology/Principles of Ecology	Active
Biosci 143	Evolution	Active
Biosci 144	Conservation Biology	Active
Biosci 145	Behavioral Ecology	Active
BioHopk 163H	Principles of Oceanic Biology	Active
BioHopk 172H	Marine Ecology	Active
Biosci 184	Principles & Practice of Biosystematics	Inactive
CEE 274A	Environmental Microbiology I	Active