MCB COURSE LIST

Terms shown below note terms in which courses were last offered. Departments sometimes change what terms courses are offered without notifying MCB.

Please check the Registrar's website - http://www.dartmouth.edu/~reg/ - to determine when electives are being offered. Most up-to-date information will be found using the term timeline (Registrar’s website) which is updated each term.

KEY: Bioc-Biochemistry/Cellular Biology  Biol-Biological Sciences  Gene-Molecular/Systems Biology  Mi

Year One Students:  Find Core Course information at end of this list

Second Year Students:  Teaching Assignment course number
Biol 169 - Teaching Assignment

Journal Clubs:  Historical Term for course

Biol 125  * Spring term  The Nature and Practice of Science *
* approved as one-time, one-term journal club for MCB students

Cosc 189/200/294  Winter, Spring  Topics in Applied Computer Science  
(course listed as all three course numbers)

Engg 260  Fall  Advances in Biotechnology

Bioc 259  Fall, Winter, Sprin Actin Cytoskeleton

Bioc 260/Chem 26  Fall, Winter, Sprin Structural Biology  (enroll in Chem 264)

Biol 261  Fall, Winter, Spring  Building a Career in Science  (Students Years 4 and up)

Engs 261  Winter  Biomass Energy Systems (serves as Journal Club for MCB students')

Bioc 262  Fall, Winter, Sprin Lipid Biology and Neurodegeneration

Biol 263  Fall, Winter, Sprin Cell Cycle

Biol 265  Fall, Winter, Sprin Microbial Ecology/Environmental Microbiology

Chem 263  Fall, Winter, Sprin Bioinorganic Chemistry

Cosc 294  Spring  Topics in Computational Immuno(counts as journal club for MCB)

Gene 261  Fall, Winter, Sprin Cancer Biology

Micr 264  Fall, Winter, Sprin Immunology

Micr 265  Fall, Winter, Sprin Molecular Pathogenesis

Biol 268  Fall, Winter, Sprin Genes and Gene Products

Biol 269  Fall, Winter, Sprin Plant Molecular Genetics

QBS 270/Biol 270  > Winter, Spring  Computational Biology  (same as QBS194)

Unsg 300  Fall, Winter, Sprin Communicating Science  (counts as one-time, one-term journal club)

NOT OFFERED WINTER ‘17

Courses approved for credit towards program requirements

Biol 127  Winter ’18  Statistics and Experimental Design I

Biol 147  Spring ’18  Genomics: From Data to Analysis

Biol 166  Spring ’18  Molecular Basis of Cancer

Biol 171  Winter ’18  Current Topics in Cell Biology

Biol 173  Spring ’18  Cell Signaling

Biol 174  Fall ’17  Advanced Neurobiology

Biol 176  Fall ’17  Advanced Genetics

Biol 180  Fall ’17  Microscopy Principles and Application

Chem 131  Spring ’18  Topics in Advanced Inorganic Chemistry
Chem 161  
**Spring '18**  
Topics in Biophysical Chemistry  
*(all versions of this course number are approved)*

Cosc 174  
**Fall '17**  
Machine Learning and Statistical Data Analysis

Cosc 175  
**Winter '18**  
Introduction to Bioinformatics *(formerly COSC 143)*

Cosc 186  
**Spring '18**  
Computational Structural Biology

Cosc 189  
**Spring '18**  
Topics in Computational Immunology

Engs 161  
**Winter '18**  
Microbial Physiology and Metabolic Engineering

Engs 163  
**Winter '18**  
Advanced Protein Engineering

Engs 167  
**Fall '17**  
Medical Imaging *(alternate years)*

Gene 118  
**Spring '18**  
Advanced Topic in Genetics and Molecular Genetics

Gene 146  
**Spring '18**  
Molecular and Computational Genomics *(cross listed as QBS146)*

Gene 148  
**Spring '18**  
Biological Mass Spectrometry and Proteomics

Micr 142  
**Winter '18**  
Advanced Cellular and Molecular Immunology

Micr 144  
**Fall '17**  
Cellular and Molecular Basis of Immunity

Micr 146  
**Fall '17**  
Immunotherapy

Micr 148  
**Fall '17**  
Advanced Molecular Pathogenesis

Micr 149  
**Spring '18**  
Microbial Physiology and Metabolism

Micr 167  
**Winter '18**  
Biology of Fungi and Parasites that Cause Disease

Pemm 103  
**Fall '17**  
Biostatistics

Pemm 123  
**Winter '18**  
Graduate Toxicology

Pemm 125  
**Spring '18**  
Neurobiology for the Rest of Us *(arrange)*

Pemm 126  
**Spring '18**  
Cancer Biology

Pemm 132  
**Spring '18**  
Clinical Management of Cancer

Pemm 211  
**Spring '18**  
Neurobiology of Disease

Pemm 271  
**Spring '18**  
Advanced Biomedical Sciences

Pemm 275  
**Spring '18**  
Vascular Biology *(as requested)*

QBS 120  
**Winter '18**  
Foundations of Biostatistics I: Statistical Inference

QBS 121  
**Spring '18**  
Foundations of Biostatistics II: Regression

QBS 130  
**Winter '18**  
Foundations of Epidemiology I: Theory and Methods

QBS 146  
**Spring '18**  
Molecular and Computational Genomics *(cross listed as GENE 146)*

**Ethics Courses**

*Year One students required to complete one ethics course during first year*

Pemm 124  
**Fall and Winter**  
Ethical Conduct in Research *(two-term course)*  
*(ethics facilitator sessions required)*

*(enroll in UNSG 100 for Fall term of the PEMM 124 ethics course)*

**Required for First Year Students:**

**Core Courses by term:**

**Bioc 101**  
**Fall**  
Molecular Information in Biological Systems

**Biol 103**  
**Winter**  
The Molecular Mechanisms of Cellular Responses  
**(enroll in Biol 103)**

**Micr 104**  
**Winter**  
The Molecular Mechanisms of Cellular Responses  
**(enroll in Biol 103)**

**SPRING TERM CORE COURSES TO BE DETERMINED**

**RIP Colloquium**

**Biol 271**  
**Fall, Winter, Spring**  
Research In Progress *(RIP) Colloquium*
**students enroll in BIOL 271 for Spring term only to receive grade for attendance during all three terms.**