

Molecular Biology Spring 2016 Courses

Level: E=Elementary, I=Intermediate, A=Advanced (L&S Students need at least 60 credits of I/A)
 Be sure to check your DARs and pre-requisites!
 Schedule an appointment with the MolBio Advisor

Course Number	Credits	Level	Course Title
Math/Statistics			
Math 211	5	I	Calculus (Lec/Disc)
Math 221	5	I	Calculus & Analytic Geometry I (Lec/Disc)
Math 213	3	I	Calculus & Intro to Differential Equations (Lec/Disc)
Math 222	4	I	Calculus & Analytic Geometry II (Lec/Disc)
Statistics 301	3	I	Introduction to Statistical Methods (Lec/Disc)
Statistics 371	3	I	Introductory Applied Statistics for Life Sciences (Lec/Disc)

Introductory Chemistry			
Chemistry 103	4	E	General Chemistry I (Lec/Lab/Disc)
Chemistry 104	5	E	General Chemistry II (Lec/Lab/Disc)
Chemistry 109	5	E	Advanced General Chemistry (Lec/Lab/Disc)
Chemistry 116	5	I	Chemical Principles II

Organic/Analytical Chemistry			
Chemistry 343	3	I	Introductory Organic Chemistry (Lec/Disc)
Chemistry 344	2	I	Introductory Organic Chemistry Lab (Lab/Disc)
Chemistry 345	3	I	Intermediate Organic Chemistry (Lec/Disc)
Chemistry 327	4	I	Fundamentals of Analytical Science (Lec/Lab/Disc)
Chemistry 329	4	I	Fundamentals of Analytical Science (Lec/Lab/Disc)

Physics			
Physics 201	5	I	General Physics (Lec/Lab/Disc)
Physics 202	5	I	General Physics (Lec/Lab/Disc)
Physics 207	5	I	General Physics (Lec/Lab/Disc)
Physics 208	5	I	General Physics (Lec/Lab/Disc)

Introductory Biology & Genetics			
Biology/Botany/Zoology 151	5	E	Introductory Biology I (Lec/Lab/Disc)
Biology/Botany/Zoology 152	5	E	Introductory Biology II (Lec/Lab/Disc)
Biology/Botany/Zoology 466	3	I	General Genetics (Lec/Disc)

Biochemistry			
Biochemistry 501	3	A	Introduction to Biochemistry (Lec)
Biochemistry 508	3-4	A	General Biochemistry II (Lec)

Molecular Biology			
Agronomy/Horticulture 340	4	I	Plant Cell Culture and Genetic Engineering (Lec/Lab)
Biochemistry/Genetics 620	3	I	Eukaryotic Molecular Biology (Lec)
Genetics 545	2	A	Genetics Laboratory (Lab)
Horticulture/Path-Bio 500	3	I	Molecular Biology Techniques (Lec/Lab)
Horticulture 550/Genetics	3	A	Molecular Approaches for Crop Improvement (Lec/Lab)
Zoology 400	3	I	General Molecular Biology (Lec) *NEW COURSE*

Advanced Courses			
Development			
Botany 500	3-4	I	Plant Physiology (Lec/Lab)
Zoology 470	3	I	Introduction to Animal Development (Lec)

Microbiology			
Botany/Plant Pathology/Entom 505	3	I/A	Plant-Microbe Interactions: Molecular and Ecological Aspects (Lec)
Microbiology 303	3	I	Biology of Microorganisms
Microbiology 304	2	I	Biology of Microorganisms Lab (Lab)
Microbiology 330	3	I	Host-Parasite Interactions (Lec)
Microbiology/Plant Pathology 622	2-3	A	Plant Bacterial Interactions (Lec)
MM&I/Biochem 575	2	A	Biology of Viruses (Lec)

Genetics			
Agronomy/Horticulture 338	3	I	Plant Breeding and Biotechnology (Lec)
Genetics 566	3	I	Advanced Genetics (Lec)
Microbiology 470	3	I	Microbial Genetics & Molecular Machines

Cell Biology			
Biocore 587	3	A	Biological Interactions (Lec/Disc)
MM&I 341	3	I	Immunology (Lec/Disc)

Biochemistry and Physical Chemistry			
Biochemistry 550	2	A	Topics in Medical Biochemistry (Lec)
Chemistry 561	3	A	Physical Chemistry (Lec/Disc)
Chemistry 565	4	A	Biophysical Chemistry (Lec/Disc)

Quantitative and Computation Sciences			
Botany 563	3	I	Phylogenetic Analysis of Molecular Data (Lec)
F&W Ecol/Hort/Stat 572	4	I	Statistical Methods for Bioscience II (Lec/Disc)
Statistics 333	3	A	Applied Regression Analysis (Lec/Disc)

Lab Courses/Independent Research			
Horticulture/Path-Bio 500	3	I	Molecular Biology Techniques (Lec/Lab)
Biochemistry 551 (was 651)	4	A	Biochemical Methods* (Lec/Lab)
Biomolecular Chemistry 504	2	A	Human Biochemistry Laboratory
Microbiology 304	2	I	Biology of Microorganisms Lab
Molecular Biology 681	3	A	Senior Honors Thesis I (Ind)
Molecular Biology 682	3	A	Senior Honors Thesis II (Ind)
Molecular Biology 691	3	A	Senior Thesis I (Ind)
Molecular Biology 692	3	A	Senior Thesis II (Ind)
Molecular Biology 699	1-4	A	Directed Studies (Ind)

*Priority given to Biochemistry majors. Contact Dr. Lynne Prost if interested.