

Division of Biological Sciences
Course Prerequisites

Course Number	Course Title	Must be completed	Must be concurrent	Recommended courses	Other restrictions
BILD					
BILD 1	The Cell	Chem 6A	Chem 6B		
BILD 2	Multicellular Life	BILD 1			
BILD 3	Organismic/Evolutionary Biology				
BILD 7	Beginning of Life				
BILD 10	Fundamental Concepts of Modern Biology				Open to non-biology majors only; Students will not receive credit if taken after BILD 1.
BILD 12	Neurobiology/ Behavior				Open to non-biology majors only.
BILD 18	Human Impact on the Environment				
BILD 20	Human Genetics in Modern Society				Open to non-biology majors only; Students will not receive credit if taken after BICD 100.
BILD 22	Human Nutrition				Open to non-biology majors only; Students will not receive credit if taken after BIBC 120.
BILD 24	Biology of Human Reproduction				Open to non-biology majors only; Students will not receive credit if taken after BICD 134.
BILD 26	Human Physiology				Open to non-biology majors only.
BILD 30	Biology of Plagues: Past and Present				Open to non-biology majors only; Students will not receive credit if taken after BIMM 120.
BILD 36	AIDS, Science, and Society				Open to non-biology majors only; Students will not receive credit if taken after BICD 136.
BILD 71	Genomics Research				Division Approval Only (Prior Application Required)
BILD 87	Freshman Seminar				Enrollment priority given to freshman.
BILD 94	Professional Issues in Bioinformatics				
BILD 99	Independent Research				Lower-division standing; 3.0 GPA; completion of at least 30 units; Division stamp (prior application required). Students will not receive credit if taken after a course numbered 199.
BIBC					
BIBC 100	Structural Biochemistry	Chem 140A	Chem 140B		Students may not receive credit for both BIBC 100 and Chem 114A.
BIBC 102	Metabolic Biochemistry	Chem 140A	Chem 140B		Students may not receive credit for both BIBC 102 and Chem 114B.
BIBC 103	Biochemical Techniques Lab	BILD 1			Students may not receive credit for BIBC 103 after taking Chem 112A.
BIBC 104	Biochemistry & Biotechnology of Plants	BILD 1; Chem 140A	Chem 140B; BIBC 102		
BIBC 110	Physical Biochemistry	Calculus and Organic Chemistry			
BIBC 116	Evolution of Genes and Proteins	BIBC 100; BIMM 100			
BIBC 120	Nutrition	BIBC 102			
BIBC 130	Marine Biochemistry	BIBC 102 or consent of instructor			
BICD					
BICD 100	Genetics	BILD 1			
BICD 101	Eucaryotic Genetics Lab	BIMM 100			
BICD 110	Cell Biology	BIBC 100/BIBC 102; BICD 100			
BICD 111	Cell Biology Lab		BICD 110	BIBC 103	
BICD 118	Pathways of Intracellular Protein Trafficking & Compartmentation	BICD 110; BIMM 100			
BICD 120	Fundamentals of Plant Biology	BILD 1; BILD 2			
BICD 122	Plant Cellular and Molecular Biology	BIBC 102			
BICD 123	Plant Molecular Genetics/ Biotechnology Lab			BICD 120	Upper-division standing
BICD 130	Embryos, Genes and Development	BIBC 100/BIBC 102; BICD 100		BICD 110; BIMM 100	Upper-division standing
BICD 131	Embryology Lab	BILD 1; BILD 2			
BICD 134	Human Reproduction and Development	BIBC 102; BICD 100			
BICD 136	AIDS, Science, and Society			BILD 1; BILD 2	
BICD 140	Immunology	BICD 100; BIMM 100		BIBC 100	
BICD 145	Laboratory in Molecular Medicine	BIBC 103; BIMM 100			
BICD 150	Endocrinology		BIPN 100		
BIEB					
BIEB 100	Biostatistics	BILD 3			
BIEB 102	Introductory Ecology: Organisms and Habitats	BILD 3 or equivalent			
BIEB 121	Ecology Laboratory	BIEB 100			
BIEB 123	Molecular Methods in Ecology and Evolution Lab	BILD 3			
BIEB 126	Plant Ecology	BILD 3			
BIEB 128	Insect Ecology	BILD 3 or equivalent			
BIEB 131	Marine Invertebrate Ecology Lab	BILD 3; BIEB 100			
BIEB 132	Introduction to Marine Biology	BILD 3			
BIEB 134	Introduction to Biological Oceanography			BILD 3	Upper-division standing
BIEB 140	Biodiversity	BILD 3			
BIEB 144	Quantitative Ecology & Conservation	BILD 3		BIEB 100; BIEB 102	
BIEB 145	Spatial Analyses in Ecology and Conservation Lab	BILD 3; BIEB 100; BIEB 102			
BIEB 147	Introduction to Phylogenetics Lab	BILD 3			
BIEB 150	Evolution	BILD 1; BILD 3			
BIEB 154	Molecular Evolution			BIBC 102; BICD 100; BIMM 100	

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BIEB 156	Population Genetics	BICD 100			
BIEB 164	Behavioral Ecology			BILD 3	
BIEB 165	Behavioral Ecology Lab	BIEB 100	BIEB 164		
BIEB 166	Animal Behavior & Communication	BILD 3; Physics 1A or 2A			
BIEB 167	Animal Communication Lab	BIEB 100	BIEB 166		
BIEB 174	Ecosystems/Global Change	BILD 2; BILD 3			
BIEB 176	Conservation and the Human Predicament	BILD 3 or consent of instructor			Upper-division standing
BIMM					
BIMM 100	Molecular Biology	BIBC 100/BIBC 102; BICD 100			Students may not receive credit for both BIMM 100 and Chem 114C
BIMM 101	Recombinant DNA Techniques Lab	BICD 100			Students may not receive credit for both BIMM 101 and Chem 112B or BIMM 101 and BIEB 123
BIMM 108	Adventures in Chromatin & Gene Expression	BIMM 100			
BIMM 110	Molecular Basis of Human Disease	BICD 100; BIBC 102; BIMM 100			Course restricted to upper division students only
BIMM 112	Regulation of Gene Activity in Eucaryotic Cells	BIMM 100			
BIMM 114	Virology	BIMM 100			
BIMM 116	Circadian Rhythms-Biological Clocks	BILD 1 or Psych 106 or consent of instructor			
BIMM 118	Pharmacology	BIBC 100/BIBC 102; BIPN 100			
BIMM 120	Bacteriology	Chem 140A; Chem 140B	BIBC 100/ BIBC 102		
BIMM 121	Laboratory in Microbiology	BIMM 120			
BIMM 122	Microbial Genetics	BICD 100; BIMM 100; or consent of instructor			
BIMM 124	Medical Microbiology	BIMM 100; BIMM 120		BICD 140	
BIMM 126	Marine Microbiology			BIBC 102 and BIMM 120	
BIMM 127	Marine Microbiology Lab				Upper-division standing
BIMM 130	Microbial Physiology	BIBC 100/BIBC 102			
BIMM 134	Biology of Cancer	BICD 110; BIMM 100			Upper-division standing
BIMM 162	3D Electron Microscopy of Macromolecules	Physics 1A/2A, 1B/2B, 1C/2D			Upper-division standing
BIMM 166	Environmental and Molecular Toxicology	BIBC 100; BIBC 102			Upper-division standing
BIMM 171	Genomics Research Labs				Division Approval Only (Prior Application Required)
BIMM 181	Molecular Sequence Analysis	CSE 100/Math 176; CSE 101/Math 188; BIMM 100/Chem 114C			Open to Bioinformatics majors only.
BIMM 182	Biological Databases	CSE 100/Math 176			Open to Bioinformatics majors only.
BIMM 184	Computational Molecular Biology	BIMM 181/BENG 181/CSE 181; BIMM 182/BENG 182/CSE 182/Chem 182			Open to Bioinformatics majors only.
BIMM 185	Bioinformatics Lab (Adv)	Two courses from: BIMM 181/BENG 181/CSE 181; BIMM 182/BENG 182/CSE 182; BENG 183; BIMM 184/BENG 184/CSE 184			Open to Bioinformatics majors only.
BIPN					
BIPN 100	Mammalian Physiology I	BILD 1; BILD 2			
BIPN 102	Mammalian Physiology II	BIPN 100	BIBC 102		
BIPN 105	Animal Physiology Lab		BIPN 100		
BIPN 106	Comparative Physiology	BILD 2; Chem 6A, 6B, and 6C		BILD 3	
BIPN 108	Physiology of Exercise	BIPN 100		BIPN 102; BIBC 102	
BIPN 110	Organ Systems and Disease	BIPN 100			
BIPN 140	Cellular Neurobiology			BILD 1; BILD 2; BIBC 100/ BIBC 102	
BIPN 142	Systems Neurobiology	BILD 1; BILD 2; BIBC 100/BIBC 102			
BIPN 144	Developmental Neurobiology				
BIPN 145	Neurobiology Lab	BIPN 140			
BIPN 146	Computational Neurobiology			BIPN 140/Psych 106/CogSci 107	
BIPN 148	Cellular Basis of Learning and Memory	BILD 1; BILD 2	BIBC 100/BIBC 102		
BIPN 150	Diseases of the Nervous System	BIBC 102; BICD 100	BIPN 140		
BISP					
Please check with Biology Student & Instructional Services for restrictions					
BISP 192	Senior Seminar in Biology				Upper-division standing; can be taken a total of 4 times as topics vary. Students may not receive credit for the same topic. Division Stamp
BISP 194	Advanced Topics in Modern Biology	BIBC 102; BICD 100			Upper-division standing; can be taken a total of 4 times as topics vary. Students may not receive credit for the same topic.
BISP 195	Introduction to Teaching in Biology				Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required)
BISP 196	Senior Honors Thesis in Biology				Upper-division standing; 3.7 GPA; Division Stamp (Prior Application Required); 3 quarter commitment
BISP 197	Biology Internship Program	BIBC 103/BIMM 101; BIMM 100; BIBC 102; BICD 100			Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required) http://biointern.ucsd.edu/
BISP 199	Individual Research				Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required) http://www.biology.ucsd.edu/undergrad/BISP_info.html