

Division of Biology
Course Prerequisites

Course Number	Course Title	Must be completed	May be concurrent	Recommended courses	Other restrictions
BILD					
BILD 1	The Cell	Chem 6A	Chem 6B		
BILD 2	Multicellular Life	Chem 6A	Chem 6B		
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 14	Introduction to Plant Biology				Open to non-biology majors only; Students will not receive credit if taken after BICD 120.
BILD 16	History of Life				Open to non-biology majors only.
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 32	Biomedicine/ Cancer				Open to non-biology majors only; Students will not receive credit if taken after BIMM 134.
BILD 36	AIDS Science and Society				Open to non-biology majors only.
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				Students may not receive credit for both BIBC 103 and Chem 112A.
BIBC 105	Signal Transduction Lab	BIBC 100; BIBC 103; BIMM 100			
BIBC 110	Physical Biochemistry	Calculus and Organic Chemistry			
BIBC 115	Computer Programming in Biology	Upper-division standing or consent of instructor			Students may not receive credit for both BIBC 115 and Chem 134.
BIBC 116	Evolution of Genes and Proteins	BIBC 100; BIMM 100			
BIBC 120	Nutrition		BIBC 102	BIBC 100	
BIBC 130	Marine Biochemistry	BIBC 102 or consent of instructor			
BICD					
BICD 100	Genetics	BILD 1			
BICD 101	Eucaryotic Genetics Lab	BICD 100			
BICD 110	Cell Biology	BIBC 100/BIBC 102; BICD 100			
BICD 111	Cell Biology Lab		BICD 110	BIBC 103	
BICD 118	Protein Trafficking & Compart	BICD 110 and 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/BIPN 100			
BICD 132	Molecular Basis of Development	BIMM 100			Upper-division standing
BICD 133	Developmental Biology Lab	BILD 1; BILD 2/BIPN 100		BIMM 100; BIMM 110	
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 142	Topics in Immunology	BICD 140			Upper-division standing
BICD 145	Laboratory in Molecular Medicine	BIBC 103; BIMM 100			
BICD 150	Endocrinology	BILD 1; BILD 2		BIBC 100; BIPN 100	Upper-division standing
BICD 162	Critical Reading/Writing in the Biological Sciences	Chem 140A; 140B; 143A; BIMM 100; BIBC 100/BIBC 102; BICD 100/BICD 110	Upper-division biology lab course or other example of research		Upper-division standing
BICD 170	Topics in Human Genetics	BICD 100		BIMM 100	
BICD 180	Genetics of Model Organisms	BICD 100			
BIEB					
BIEB 100	Biometry			BILD 3	
BIEB 102	Introductory Ecology: Organisms and Habitats	BILD 3 or equivalent			
BIEB 121	Ecology Laboratory	BIEB 100			
BIEB 126	Plant Ecology	BILD 3			
BIEB 128	Insect Ecology	BILD 3 or equivalent			
BIEB 130	Marine Ecology	BILD 3			
BIEB 140	Biodiversity	BILD 3			
BIEB 144	Quantitative Ecology	BILD 3 or equivalent; BIEB 100			
BIEB 150	Evolution	BILD 3			
BIEB 154	Molecular Evolution			BIBC 102; BICD 100; BIMM 100	
BIEB 156	Population Genetics	BICD 100		BIEB 100	
BIEB 164	Behavioral Ecology			BILD 3	
BIEB 165	Behavioral Ecology Lab	BIEB 100	BIEB 164		
BIEB 166	Animal Behavior & Communication			BILD 3	

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BIEB 167	Animal Communication Lab	BIEB 100	BIEB 166		
BIEB 170,171,172	White Mountain Research Supercourse				Division Stamp (pre-application required) http://www.wmrs.edu
BIEB 176	Conservation and the Human Predicament	BILD 3 or consent of instructor			Upper-division standing
BIEB 178	Principles of Conservation Ecology	BIEB 100			
BIEB 179	Conservation Biology Laboratory		BIEB 178/ BIEB 180		
BIEB 180	Principles of Conservation Genetics				
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	BIMM 100			Students may not receive credit for both BIMM 101 and Chem 112B
BIMM 103	Modern Techniques in Molecular Biology Lab	BIBC 103; BIMM 100			
BIMM 110	Molecular Basis of Diseases	BICD 100; BIMM 100			
BIMM 112	Regulation of Gene Activity in Eucaryotic Cells	BIMM 100			
BIMM 114	Virology	BIMM 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			
BIMM 126	Environmental Microbiology		BIBC 102/ Chem 114B	BIMM 120	
BIMM 127	Environmental Microbiology Lab	BIMM 121 and BIMM 126 or consent of instructor			
BIMM 130	Microbial Physiology	BIBC 100/BIBC 102			
BIMM 132	Molecular Biology of Human Retroviruses	BIMM 100			
BIMM 134	Biology of Cancer	BICD 110; BIMM 100			Upper-division standing
BIMM 140	Introduction to Bioinformatics	BIBC 100/BIBC 102; BICD 100	BIMM 100		
BIMM 141	Bioinformatics Laboratory	BIBC 100/BIBC 102; BICD 100; BIMM 100; BIMM 140			
BIMM 142	Advanced Bioinformatics	BIBC 100/BIBC 102; BICD 100; BIMM 100; BIMM 140			
BIMM 150	Post-Genomics Biology	BIMM 100; BICD 100			
BIMM 181	Molecular Sequence Analysis	CSE 100/Math 176; CSE 101/Math 188; BIMM 100/Chem 114D			Open to Bioinformatics majors only.
BIMM 182	Biological Databases	CSE 100/Math 176			Open to Bioinformatics majors only.
BIMM 184	Computational Molecular Biol	BIMM 181/BENG 181/CSE 181; BIMM 182/BENG 182/CSE 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; BIBC100/BIBC 102			
BIPN 102	Mammalian Physiology II	BILD 2			
BIPN 105	Animal Physiology Lab		BIPN 100		
BIPN 106	Comparative Physiology	BILD 2; Chem 6A, 6B, 6C or Chem 7A, 7B			
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			BILD 1; BILD 2; BIBC 100/BIBC 102; BICD 100; BIPN 142	
BIPN 145	Neurobiology Lab		BIPN 140/BIPN 142/BIPN 146		
BIPN 146	Computational Neurobiology			BILD 12/BIPN 140/Psych 106/CogSci 107	
BISP					
BISP 190	Advanced Biology Seminar for Seniors	Upper-division standing			Upper-division standing
BISP 195	Introduction to Teaching in Biology	Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required)			http://www-biology.ucsd.edu/undergrad/TA_jobs.html
BISP 196	Honors Thesis in Biology	Senior Standing; 3.7 GPA; Division Stamp (Prior Application Required)			http://www-biology.ucsd.edu/undergrad/BISP_info.html
BISP 197	Biotechnology Internship Program	Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required)			http://www-biology.ucsd.edu/undergrad/internships.html
BISP 199	Independent Study	Upper-division standing; 3.0 GPA; Division Stamp (Prior Application Required)			http://www-biology.ucsd.edu/undergrad/BISP_info.html