

BIOLOGY BS Requirements		Course offerings are subject to change.			
Lower Division Requirements					
Calculus:	<input type="checkbox"/> MATH 11A (FWS) or MATH 19A (FWS)	&	<input type="checkbox"/> MATH 11B (FWS) or MATH 19B (FWS)		
General Chem:	<input type="checkbox"/> CHEM 3A : General Chemistry (FW)	&	<input type="checkbox"/> CHEM 3B&3BL: General Chemistry (WS)	&	<input type="checkbox"/> CHEM 3C&3CL: General Chemistry (FS)
Biology:	<input type="checkbox"/> BIOL 20A: Cell and Molecular Bio (FWS)	&	<input type="checkbox"/> BIOE 20B: Development and Physiology (FWS)	&	<input type="checkbox"/> BIOE 20C: Ecology & Evolution (FWS) & <input type="checkbox"/> BIOL 20L: Experimental Bio Lab (FWS)
Organic Chem:	<input type="checkbox"/> CHEM 8A: Organic Chemistry (FW) <input type="checkbox"/> CHEM 8L: Organic Chemistry Lab (FW)	&	<input type="checkbox"/> CHEM 8B: Organic Chemistry (WS)		
Statistics:	<input type="checkbox"/> STAT 5: Statistics (FWS)	OR	<input type="checkbox"/> STAT 7: Stats for the Biological, Environmental, and Health Sciences & (FWS) <input type="checkbox"/> STAT 7L: Stats Lab (FWS)		
Physics:	<input type="checkbox"/> PHYS 6A: Introductory Physics I & (FWS) <input type="checkbox"/> PHYS 6L: Introductory Physics I Lab (FWS)	&	<input type="checkbox"/> PHYS 6B: Introductory Physics II (FWS) <input type="checkbox"/> PHYS 6M: Introductory Physics II Lab (FWS)	&	<input type="checkbox"/> PHYS 6C: Introductory Physics III (FW) <input type="checkbox"/> PHYS 6N: Introductory Physics III Lab (FW)
<p>After passing the above qualification courses shaded green with a C or better, you can submit your request to declare your major via your my.ucsc.edu portal. All qualification courses must be completed by the end of the 5th quarter and students must petition to declare by the 6th quarter deadline.</p> <input type="checkbox"/> Declared					
Upper Division Requirements					
CORE COURSES:					
	<input type="checkbox"/> BIOL 105: Genetics (FWS)				
	<input type="checkbox"/> BIOL 100: Biochemistry (WS)	&	<input type="checkbox"/> BIOL 101: Molecular Biology (FS)		
	OR				
	<input type="checkbox"/> BIOC 100A: Biochemistry & Molecular Bio (F)	&	<input type="checkbox"/> BIOC 100B: Biochemistry & MB (W)	&	<input type="checkbox"/> BIOC 100C: Biochemistry & MB (S)
	<input type="checkbox"/> BIOL 101L: Molecular Biology Lab (FWS)	OR	<input type="checkbox"/> CUREs Lab: BIOL 102L: Toxic RNA Lab II /BIOL 107L: Synthetic Gene Regulation Lab/BIOL 122L: Phage Biology Lab (W)		
	<input type="checkbox"/> BIOE 107: Ecology (FWS)				
	<input type="checkbox"/> BIOE 109: Evolution (FWS)				
	<input type="checkbox"/> BIOL 110: Cell Biology (FWS)				
UPPER DIVISION ELECTIVES: CHOOSE A MINIMUM OF 3 (Classes shaded below count toward BOTH the Upper Div Elective and the DC)					
	<input type="checkbox"/> BIOC 100C: Biochemistry and Molecular Biology (S)				
	<input type="checkbox"/> BIOE 108: Marine Ecology				
	<input type="checkbox"/> BIOE 112/L: Ornithology/Lab				
	<input type="checkbox"/> BIOE 114/L: Herpetology/Lab				
	<input type="checkbox"/> BIOE 117/L: Systematic Botany/Lab *				
	<input type="checkbox"/> BIOE 120/L: Marine Botany/Lab				
	<input type="checkbox"/> BIOE 122/L: Invertebrate Zoology/Lab				
	<input type="checkbox"/> BIOE 124/L: Mammalogy/Lab				
	<input type="checkbox"/> BIOE 127/L: Ichthyology/Lab				
	<input type="checkbox"/> BIOE 129/L: Marine Mammals/Lab				
	<input type="checkbox"/> BIOE 131/L: Animal Physiology (lab optional)				
	<input type="checkbox"/> BIOE 133/L: Exercise Physiology/Lab				
	<input type="checkbox"/> BIOE 134/L: Comparative Vertebrate Anatomy/Lab				
	<input type="checkbox"/> BIOE 135/L: Plant Physiology/Lab				
	<input type="checkbox"/> BIOE 137/L: Molecular Ecology/Lab*				
	<input type="checkbox"/> BIOE 139: Mathematical Modeling and Data Science In Ecology and Evolution				
	<input type="checkbox"/> BIOE 140: Behavioral Ecology				
	<input type="checkbox"/> BIOE 145: Plant Ecology				
	<input type="checkbox"/> BIOE 147: Community Ecology				
	<input type="checkbox"/> BIOE 149: Disease Ecology				
	<input type="checkbox"/> BIOE 155: Freshwater Ecology				
	<input type="checkbox"/> BIOE 161: Kelp Forest Ecology				
	<input type="checkbox"/> BIOE 163/L: Ecology of Reefs, Mangroves & Seagrasses/Lab				
	<input type="checkbox"/> BIOE 165: Marine Conservation Biology				
	<input type="checkbox"/> BIOE 172 Population Genetics				
	<input type="checkbox"/> BIOL 111A: Immunology				
	<input type="checkbox"/> BIOL 112: Principles of Virology				
	<input type="checkbox"/> BIOL 114: Cancer Cell Biology				
	<input type="checkbox"/> BIOL 115: Eukaryotic Molecular Biology				
	<input type="checkbox"/> BIOL 118: Principles of Human Genetics				
	<input type="checkbox"/> BIOL 120: Developmental Biology				
	<input type="checkbox"/> BIOL 125: Intro to Neuroscience				
	<input type="checkbox"/> BIOL 130: Human Physiology				
	<input type="checkbox"/> METX 100: Introduction to Microbiology				
	<input type="checkbox"/> METX 133: Medical Microbiology				
	<input type="checkbox"/> METX 135/L: Anatomy of the Human Body/Lab				
	<input type="checkbox"/> METX 140: Molecular Biology and Microbial Genetics				
	<input type="checkbox"/> METX 150: Applied and Environmental Microbiology				
DC Requirement: 2 OF THE FOLLOWING BIOE COURSES:					
	<input type="checkbox"/> BIOE 108: Marine Ecology*				
	<input type="checkbox"/> BIOE 114/L: Herpetology/Lab**				
	<input type="checkbox"/> BIOE 117: Systematic Botany**				
	<input type="checkbox"/> BIOE 120/L: Marine Botany/Lab**				
	<input type="checkbox"/> BIOE 122/L: Invertebrate Zoology/Lab**				
	<input type="checkbox"/> BIOE 127/L: Ichthyology/Lab**				
	<input type="checkbox"/> BIOE 128L: Large Marine Vertebrates Field Course				
OR					
1 OF THE FOLLOWING 5-UNIT LABS:					
	<input type="checkbox"/> BIOL 105L: Eukaryotic Genetics Lab				
	<input type="checkbox"/> BIOL 106L: Eukaryotic Genetic Engineering Lab				
	<input type="checkbox"/> BIOL 109L: Yeast Molecular Genetics Lab				
	<input type="checkbox"/> BIOL 115L: Eukaryotic Molecular Biology Lab				
	<input type="checkbox"/> BIOL 120L: Developmental Biology Lab				
	<input type="checkbox"/> BIOL 121L: Environmental Phage Biology Lab				
	<input type="checkbox"/> BIOL 186L: Undergraduate Research in MCD Biology				
OR					
CUREs Lab (SPRING QUARTER ONLY)					
	<input type="checkbox"/> BIOL 103L: Toxic RNA Lab II				
	<input type="checkbox"/> BIOL 108L: Synthetic Gene Regulation Lab III				
	<input type="checkbox"/> BIOL 122L: Phage Biology Lab III				

* Note that you must apply to enroll in BIOC 100A and complete the entire series of one or the other - no mixing and matching

