

MCD 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 w/Lab (FWS) <input type="checkbox"/> CHEM 3C&3CL: General Chemistry w/Lab (FS)	OR	<input type="checkbox"/> CHEM 4A&4AL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab <input type="checkbox"/> CHEM 4B&4BL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab
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 Chem 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 6C: Introductory Physics III (FW) <input type="checkbox"/> PHYS 6M: Introductory Physics II Lab (FWS) & <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 a Petition to Declare. 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 Courses			
Complete the major with the following:			
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 /BIOL 107L: Synthetic Gene Regulation Lab/BIOL 122K: Phage Biology Lab (W)
<input type="checkbox"/> BIOL 104L: Coronavirus Bioinformatics Lab <input type="checkbox"/> BIOL 110: Cell Biology (FWS) <input type="checkbox"/> BIOL 120: Developmental Biology (S)			
ELECTIVES: 2 UPPER DIVISION ELECTIVES - AT LEAST 1 MUST BE A BIOL COURSE			
<input type="checkbox"/> BIOE 109: Evolution <input type="checkbox"/> BIOE 135/L: Plant Physiology/Lab <input type="checkbox"/> BIOL 111A: Immunology <input type="checkbox"/> BIOL 112: Virology <input type="checkbox"/> BIOL 114: Cancer Cell Biology <input type="checkbox"/> BIOL 115: Eukaryotic Molecular Biology <input type="checkbox"/> BIOL 117: Global Health & Neglected Diseases <input type="checkbox"/> BIOL 118: Principles of Human Genetics <input type="checkbox"/> BIOL 124: Optical Imaging for Biological Research <input type="checkbox"/> BIOL 125: Intro to Neuroscience <input type="checkbox"/> BIOL 127: Mechanisms of Neurodegenerative Disease <input type="checkbox"/> BIOL 130: Human Physiology <input type="checkbox"/> BME 110: Computational Biology Tools <input type="checkbox"/> BME 130: Genomes <input type="checkbox"/> BME 160: Research Programming for Biologists & Biochemists <input type="checkbox"/> BME 178: Stem Cell Biology <input type="checkbox"/> METX 100: Introduction To Microbiology <input type="checkbox"/> METX 133: Medical Microbiology <input type="checkbox"/> METX 140: Molecular Biology And Microbial Genetics <input type="checkbox"/> METX 150: Applied and Environmental Microbiology <input type="checkbox"/> PHYS 180: Biophysics			
LAB: 1 LAB COURSE REQUIRED		OR	CUREs Lab (SPRING QUARTER ONLY)
<input type="checkbox"/> BIOL 100L: Biochemistry Lab			<input type="checkbox"/> BIOL 103L: Toxic RNA Lab
<input type="checkbox"/> BIOL 105L: Eukaryotic Genetics Lab			<input type="checkbox"/> BIOL 108L: Synthetic Gene Regulation Lab
<input type="checkbox"/> BIOL 106L: Eukaryotic Genetic Engineering Lab			<input type="checkbox"/> BIOL 122L: Phage Biology 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			
<input type="checkbox"/> METX 119L: Microbiology Lab			
DISCIPLINARY COMMUNICATION & COMPREHENSIVE REQUIREMENT ARE SATISFIED BY COMPLETING ONE 5-UNIT LAB COURSE OR CUREs LAB FROM THE ABOVE LIST. <input type="checkbox"/> DC/SENIOR EXIT COMPLETE			
Please refer to your 2023-24 UCSC General Catalog for more information or clarification			

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