

MCD Biology BS Requirements (2021-22)		Course offerings are subject to change.	
<b>Lower Division Requirements</b>			
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 1A: General Chemistry (FWS)	&	<input type="checkbox"/> CHEM 1B: General Chemistry (FWS) & <input type="checkbox"/> CHEM 1C: General Chemistry & (FWS) <input type="checkbox"/> CHEM 1N: General Chem Lab (FWS)
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) OR BIOL 102J: Toxic RNA Lab I (F)
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) OR BIOL 107J: Synthetic Gene Regulation Lab I (F)
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 (WS) OR <input type="checkbox"/> PHYS 6C: Introductory Physics III (FS)
<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> <p><input type="checkbox"/> Declared</p>			
<b>Upper Division Courses</b>			
Complete the major with the following:			
<b>CORE COURSES:</b>			
<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"/> BIOL 102L: Toxic RNA Lab II (W) OR <input type="checkbox"/> BIOL 107L: Synthetic Gene Regulation Lab II (W) <input type="checkbox"/> BIOL 110: Cell Biology (FWS)			
<b>ELECTIVES: 3 UPPER DIVISION ELECTIVES (ONLY ONE OF WHICH MAY BE A 3-UNIT COURSE: BIOL 112, 116 OR 117)</b>			
<input type="checkbox"/> BIOC 100C: Biochemistry <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 111B: Immunology II <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 116: Advanced Topics in Cell Biology <input type="checkbox"/> BIOL 117: Global Health & Neglected Diseases <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"/> BIOL 140: The RNA World <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 OR <input type="checkbox"/> METX 119: Microbiology <input type="checkbox"/> METX 140: Molecular Biology And Microbial Genetics <input type="checkbox"/> PHYS 180: Biophysics			
<b>LAB: 1 LAB COURSE REQUIRED</b>			
<input type="checkbox"/> BIOL 100L: Biochemistry Lab <input type="checkbox"/> BIOL 103L: Toxic RNA Lab II <input type="checkbox"/> BIOL 105L: Eukaryotic Genetics Lab <input type="checkbox"/> BIOL 106L: Eukaryotic Genetic Engineering Lab <input type="checkbox"/> BIOL 108L: Synthetic Gene Regulation Lab III <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			
<b>DISCIPLINARY COMMUNICATION &amp; SENIOR EXIT REQUIREMENTS ARE SATISFIED BY COMPLETING ONE 5-UNIT LAB COURSE FROM THE ABOVE LIST.</b>			
<input type="checkbox"/> DC/SENIOR EXIT COMPLETE			
Please refer to your <a href="#">2021-22 UCSC General Catalog</a> for more information or clarification			