MCD Biology BS Requirements		Со	urse	offerings are subject to change.			
Lower Divis	ion Requirements						
Calculus:	MATH 11A (FWS) or MATH 19A (FWS)	&		MATH 11B (FWS) or MATH 19B (FWS)			
General Chem:	CHEM 3A: General Chemistry (FW) CHEM 3B&3BL: General Chemistry w/Lab (FWS) CHEM 3C&3CL: General Chemistry w/Lab (FS)	OR		CHEM 4A&4AL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab CHEM 4B&4BL: Advanced General Chemistry: Molecular Structure and Reactivity w/Lab			
Biology	BIOL 20A: Cell and Molecular Bio (FWS)	&		BIOE 20B: Development and Physiology (FWS) & BIOE 20C: Ecology & Evolution (FWS)	&	-	BIOL 20L: Experimental Bio Lab (FWS)
Organic Chem:	CHEM 8A: Organic Chemistry & (FW) CHEM 8L: Organic Chem Lab (FW)	&		CHEM 8B: Organic Chemistry (WS)			
Statistics:	STAT 5: Statistics (FWS)	OR		STAT 7: Stats for the Biological, Environmental, and Health Sciences (FWS) & STAT 7L: Stats Lab (FWS)			
Physics:	PHYS 6A: Introductory Physics I & (FWS) PHYS 6L: Introductory Physics 1 Lab (FWS)	&		PHYS 6B: Introductory Physics II (FWS) & PHYS 6C: Introductory Physics III (FW)			
				ou 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 Declared	e 6th qu	uarter	deadline,	4		
Upper Divis							
Complete the r	najor with the following:						
	CORE COURSES:						
	BIOL 105: Genetics (FWS)						
	BIOL 100: Biochemistry (WS)	&		BIOL 101: Molecular Biology (FS)	* No	te th	nat you must apply to enroll in BIOC 100A and
	BIOC 100A: Biochemistry & Molecular Bio (F)	&		OR BIOC 100B: Biochemistry & MB (W) & BIOC 100C: Biochemistry & MB (S)	comp	plete	e the entire series of one or the other: g and matching
	BIOC 100A: Biochemistry & Motecutar Bio (F)	α		BIOC TOUG: BIOCHEMISTRY & MID (VV)	IIIO III	IXIIIÇ	a and matching
	BIOL 101L: Molecular Biology Lab (FWS)	OR		CUREs Lab: BIOL 102L: Toxic RNA Lab /BIOL 107L: Synthetic Gene Regulation Lab/BIOL 122K: Phage Biology Lab (W)			
	BIOL 104L: Coronavirus Bioinformatics Lab			Diotogy Lab (VV)			
	BIOL 110: Cell Biology (FWS)						
	BIOL 120: Developmental Biology (S)						
	ELECTIVES: 2 UPPER DIVISION ELECTIVES - AT L	EAST 1	L MUS	ST BE A BIOL COURSE			
	BIOE 109: Evolution				•		
	BIOE 135/L: Plant Physiology/Lab						
	BIOL 111A: Immunology						
	BIOL 112: Virology BIOL 114: Cancer Cell Biology						
	BIOL 115: Eukaryotic Molecular Biology						
	BIOL 117: Global Health & Neglected Diseases						
	BIOL 118: Principles of Human Genetics						
	BIOL 124: Optical Imaging for Biological Research BIOL 125: Intro to Neuroscience						
	BIOL 125: Intro to Neuroscience BIOL 127: Mechanisms of Neurodegenerative Disea	ase					
	BIOL 130: Human Physiology						
	BME 110: Computational Biology Tools						
	BME 130: Genomes BME 160: Research Programming for Biologists & E	Diochomic	+-				
	BME 178: Stem Cell Biology	Jochemis	515				
	METX 100: Introduction To Microbiology						
	METX 133: Medical Microbiology						
	METX 140: Molecular Biology And Microbial Genet METX 150: Applied and Enviornmental Microbiolog						
	PHYS 180: Biophysics	ly .					
	LAB: 1 LAB COURSE REQUIRED	OR		CUREs Lab (SPRING QUARTER ONLY)			
	BIOL 100L: Biochemistry Lab	- OK	_	BIOL 103L: Toxic RNA Lab	-		
	BIOL 105L: Eukaryotic Genetics Lab			BIOL 108L: Synthetic Gene Regulation Lab			
	BIOL 106L: Eukaryotic Genetic Engineering Lab			BIOL 122L: Phage Biology Lab			
	BIOL 109L: Yeast Molecular Genetics Lab BIOL 115L: Eukaryotic Molecular Biology Lab						
	BIOL 120L: Developmental Biology Lab						
	BIOL 121L: Environmental Phage Biology Lab						
	BIOL 186L: Undergraduate Research in MCD Biolog	gy					
	METX 100L: Microbiology Lab						
	DISCIPLINARY COMMUNICATION & COMPREHEN	ISIVE P	EQUI	REMENT ARE SATISFIED BY COMPLETING ONE 5-UNIT LAB COURSE OR CURES			
	LAB FROM THE ABOVE LIST.						
	DC/SENIOR EXIT COMPLETE						
Please refer	to your 2023-24 UCSC General Catalog for more in	nformat	ion or	clarification			