MCD Bio	log	у В	S Requirements (2021-22)	Co	ourse	offerings are subject to change.							
Lower Divis	ion F	Requ	irements										
Calculus:			MATH 11A (FWS) or MATH 19A (FWS)	&		MATH 11B (FWS) or MATH 19B (FWS)							
General Chem:			CHEM 1A: General Chemistry (FWS)	&		CHEM 1B: General Chemistry (FWS)	&			CHEM 1C: General Chemistry & (FWS) CHEM 1N: General Chem Lab (FWS)			
Biology			BIOL 20A: Cell and Molecular Bio (FWS)	&		BIOE 20B: Development and Physiology (FWS)	8			BIOE 20C: Ecology & Evolution (FWS)	&		BIOL 20L: Experimental Bio Lab (FWS)
Diotogy			BIOL 20A. Celt and Motecular BIO (1 W 3)			BIOL 20B. Development and Friyalology (Five)				BIOL 200. Ecology & Evolution (1 443)			OR
Organic Chem:			CHEM 8A: Organic Chemistry & (FW) CHEM 8L: Organic Chem Lab (FW)	&		CHEM 8B: Organic Chemistry (WS)							BIOL 102J: Toxic RNA Lab I (F) OR DIOL 107J Contacting Contacting Lab LUCIUM
Statistics:			STAT 5: Statistics (FWS)	OR		STAT 7: Stats for the Biological, Environmental, a STAT 7L: Stats Lab (FWS)	ind H	ealth S	Scien	nces & (FWS)			BIOL 107J: Synthetic Gene Regulation Lab I (F)
Physics:			PHYS 6A: Introductory Physics I & (FWS) PHYS 6L: Introductory Physics I Lab (FWS)	&		PHYS 6B: Introductory Physics II (WS)	OR			PHYS 6C: Introductory Physics III (FS)			
			 e qualification courses shaded green with a				ualif	icatio	on c	ourses must be completed by the			
end of the 5th	n qua		Declared	e 6th q	uarter	deadline.							
			Dectared										
Upper Divis	on C	Cour	ses										
Complete the r	najor	with	the following:										
	COR	e cc	DURSES:										
	COI	L CC	JONSES.										
			BIOL 105: Genetics (FWS)										
			BIOL 100: Biochemistry (WS)	&		BIOL 101: Molecular Biology (FS)							
		OR	BIOL 100: BIOCHEMISTY (WS)	α		BIOL 101: Motecular Biology (FS)							
			BIOC 100A: Biochemistry & Molecular Bio (F)	&		BIOC 100B: Biochemistry & MB (W)	&			BIOC 100C: Biochemistry & MB (S)			
			BIOL 101L: Molecular Biology Lab (FWS)	OR		BIOL 102L: Toxic RNA Lab II (W)	OR			BIOL 107L: Synthetic Gene Regulation L	ab II (W)	
			BIOL 110: Cell Biology (FWS) BIOL 104L: Coronavirus Bioinformatics Lab (F)										
			DISE 10 IE. CONSTITUTE DISTRIBUTE EAS (1)										
	ELEC	CTIV	ES: 3 UPPER DIVISION ELECTIVES (ONL)	ONE	OF W	HICH MAY BE A 3-UNIT COURSE: BIOL	112	, 116	OF	R 117)			
		_	BIOC 100C: Biochemistry										
		_	BIOE 109: Evolution BIOE 135/L: Plant Physiology/Lab										
		_	BIOL 111A: Immunology										
		_	BIOL 111B: Immunology II										
		_	BIOL 112: Virology										
		=	BIOL 114: Cancer Cell Biology BIOL 115: Eukaryotic Molecular Biology										
		=	BIOL 116: Advanced Topics in Cell Biology										
		_	BIOL 117: Global Health & Neglected Diseases										
			BIOL 118: Principles of Human Genetics										
		=	BIOL 120: Developmental Biology										
		_	BIOL 125: Intro to Neuroscience BIOL 130: Human Physiology										
		_	BIOL 140: The RNA World										
			BME 110: Computational Biology Tools										
			BME 130: Genomes										
			BME 160: Research Programming for Biologists &	Biochemi	ists								
		_	BME 178: Stem Cell Biology METX 100: Introduction To Microbiology	OR		METX 119: Microbiology							
			METX 140: Molecular Biology And Microbial Genet			,, , , , , , , , , , , , , , , , ,							
			PHYS 180: Biophysics										
	LAB	_	AB COURSE REQUIRED										
		_	BIOL 100L: Biochemistry Lab BIOL 103L: Toxic RNA Lab II										
			BIOL 105L: Eukaryotic Genetics Lab										
			BIOL 106L: Eukaryotic Genetic Engineering Lab										
			BIOL 108L: Synthetic Gene Regulation Lab III										
		_	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 Biolo	gy									
			METX 119L: Microbiology Lab										
	Dic.	CID: ·	IN A DV COMMUNICATION OF THE	DEC	upe:	ENTE ADE CATIONED DV 20112	C		16.00	TIAD COURSE FROM THE ATTE	/F · ·		
	אוט	LIPLI	NARY COMMUNICATION & SENIOR EXIT	KEQU	IKEM	EN 13 ARE SATISFIED BY COMPLETING	ONE	5-U	I IVI	LAB COURSE FROM THE ABOV	E LI	ol.	

DC/SENIOR EXIT COMPLETE	
Please refer to your 2021-22 UCSC General Catalog for more information or clarification	