MCD Biology BS (2020-21)

*Course offerings are subject to change.

Lower Division Requirements

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)	&	☐	BIOE 20C: Ecology & Evolution (FWS)	&	☐	BIOL 20L: Experimental Bio Lab (FWS) **OR** BIOL 102J: Toxic RNA Lab I
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 I Lab (FWS)	&	☐	PHYS 6B: Introductory Physics II (WS)	OR	☐	PHYS 6C: Introductory Physics III (FS)			

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.

☐ Declared

Upper Division Courses

Complete the major with the following:

CORE COURSES:

☐ BIOL 105: Genetics (FWS)

☐	BIOL 100: Biochemistry (WS)	&	☐	BIOL 101: Molecular Biology (FS)		
OR						
☐	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 I
☐	BIOL 110: Cell Biology (FW)		

ELECTIVES: 3 UPPER DIVISION ELECTIVES (ONLY ONE OF WHICH MAY BE A 3-UNIT COURSE: BIOL 112, 116 OR 117)

☐ BIOC 100C: Biochemistry
☐ BIOE 109: Evolution
☐ BIOE 135/L: Plant Physiology/Lab
☐ BIOL 111A: Immunology
☐ BIOL 111B: Immunology
☐ 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 126: Advanced Molecular Neuroscience
☐ BIOL 127: Mechanisms of Neurodegenerative Diseases
☐ BIOL 128: Developmental Neurobiology
☐ BIOL 130: Human Physiology
☐ BIOL 140: The RNA World
☐ BME 110: Computational Biology Tools
☐ BME 130: Genomes
☐ BME 160: Research Programming for Biologists & Biochemists
☐ BME 178: Stem Cell Biology
☐ METX 119: Microbiology
☐ PHYS 180: Biophysics

LAB: 1 LAB COURSE REQUIRED

☐ BIOL 100L: Biochemistry Lab
☐ BIOL 103L: Toxic RNA Lab II
☐ BIOL 105L: Eukaryotic Genetics Lab
☐ BIOL 106L: Eukaryotic Genetic Engineering 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 Biology
☐ METX 119L: Microbiology Lab

DISCIPLINARY COMMUNICATION & SENIOR EXIT REQUIREMENTS ARE SATISFIED BY COMPLETING ONE 5-UNIT LAB COURSE FROM THE ABOVE LIST.

☐ DC/SENIOR EXIT COMPLETE

Please refer to your 2020-21 UCSC General Catalog for more information or clarification