MCD BIOLOGY BS Requirements (2019-20)

Lower Division Courses

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)

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 classes shaded above with a C or better, students can submit a Petition to Declare. Students in their 6th quarter may petition while their last course is in progress. All students must declare by the 6th quarter deadline.

☐ Declared

Upper Division Courses

Complete the major with the following:

CORE COURSES:

☐ BIOL 105: Genetics

☐ BIOL 100: Biochemistry **&** ☐ BIOL 101: Molecular Biology

OR

☐ BIOC 100A: Biochemistry & Molecular Bio **&** ☐ BIOC 100B: Biochemistry & MB **&** ☐ BIOC 100C: Biochemistry & MB

☐ BIOL 101L: Molecular Biology Lab **OR** ☐ BIOL 102L: Toxic RNA Lab I

☐ BIOL 110: Cell Biology

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 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 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 2019-20 UCSC General Catalog for more information or clarification