

HUMAN BIOLOGY BS Requirements (2020-21)

Lower Division Courses

*Course offerings are subject to change.

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 1M: General Chem Lab (FWS) & CHEM 1N: General Chem Lab (FWS)

Biology: BIOL 20A: Cell and Molecular Bio (FWS) & BIOE 20B: Development and Physiology (FWS) & BIOL 20L: Experimental Bio Lab (FWS)

Organic Chem: CHEM 8A: Organic Chemistry & (FW) & CHEM 8B: Organic Chemistry & (WS)
 CHEM 8L: Organic Chem Lab (FW) & CHEM 8M: Organic Chem Lab (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 6B: Introductory Physics II (WS) OR PHYS 6C: Introductory Physics III (FS)
 PHYS 6L: Introductory Physics I Lab (FWS)

Spanish: **Students must achieve proficiency and pass Medical Spanish**

- Take the Spanish Placement Exam
- SPAN 1: Intro Spanish (FWS)
- SPAN 2: Intro Spanish (FWS)
- SPAN 3: Intro Spanish (FWS)
- SPAN 4: Intermediate Spanish (FWS)
- SPAN 5M: Medical Spanish (FWS)

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 110: Cell Biology (FW)

BIOL 130: Human Physiology (WS)

BIOL 130L: Human Physiology Lab (WS)

ELECTIVES: 2 UPPER DIVISION ELECTIVES (ONLY 1 OF WHICH MAY BE A 3-UNIT COURSE: BIOL 112, 116 or 188)

BIOC 100C: Biochemistry

BIOE 133/L: Exercise 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 140: The RNA World
- BIOL 188: A Life in Medicine
- BME 130: Genomes
- BME 178: Stem Cell Biology
- CMMU 163: Health Care Inequalities
- METX 119: Microbiology
- METX 135/L: Anatomy of the Human Body/Lab
- PHYS 180: Biophysics

INTERNSHIP REQUIREMENT

- BIOL 189: Health Sciences Internship
- BIOL 189W: Disciplinary Communication: Human Biology

DISCIPLINARY COMMUNICATION REQUIREMENT

- BIOL 130L: Human Physiology Lab
- BIOL 189: Health Sciences Internship
- BIOL 189W: Disciplinary Communication: Human Biology

SENIOR EXIT REQUIREMENT

- BIOL 189: Health Sciences Internship

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