HUMAN BIOLOGY BS Requirements (2022-23)

***All courses listed on major checklist must be taken for a letter grade**

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 1M: General Chem Lab (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)	**&**	☐ BIOL 20L: Experimental Bio Lab (FWS)		
Organic Chem:	☐ CHEM 8A: Organic Chemistry & (FW) ☐ CHEM 8L: Organic Chem Lab (FW)	**&**	☐ CHEM 8B: Organic Chemistry (WS) ☐ 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 6L: Introductory Physics I Lab (FWS)	**&**	☐ PHYS 6B: Introductory Physics II (WS)	**OR**	☐ PHYS 6C: Introductory Physics III (FS)		

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)	

*** Note that you must complete the entire series of one or the other: no mixing and matching**

- ☐ BIOL 110: Cell Biology (FWS)
- ☐ 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 127: Mechanisms of Neurodegenerative Diseases
- ☐ 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 **OR** ☐ METX 100: Introduction To Microbiology
- ☐ METX 135/L: Anatomy of the Human Body/Lab
- ☐ METX 140: Molecular Biology And Microbial Genetics
- ☐ PHYS 180: Biophysics

INTERNSHIP REQUIREMENT

- ☐ BIOL 189: Health Sciences Internship

** Please note you must apply for the internship **2 quarters in advanced**

DISCIPLINARY COMMUNICATION REQUIREMENT

- ☐ GCH 190: Global and Community Health Task Force
- ☐ GCH 195: Global and Community Health Communication

SENIOR EXIT REQUIREMENT

- ☐ BIOL 189: Health Sciences Internship

Please refer to your 2021-22 UCSC General Catalog for more information or clarification