HUMAN BIOLOGICAL SCIENCES, BA

Natural Sciences, Mathematics, and Engineering (nsme) (https:// catalog.csub.edu/general-information/csub-information/school-naturalsciences-mathematics-engineering/)

Department of Biology (https://catalog.csub.edu/general-information/ csub-information/school-natural-sciences-mathematics-engineering/ department-biology/)

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www.csub.edu/Biology (http://www.csub.edu/Biology/)

Program Maps for Natural Sciences, Mathematics, and Engineering (https://programmap.csub.edu/academics/interest-clusters/4e942a6eb8e4-4b60-a1ae-334235acc581/)

The Department of Biology offers the Bachelor of Science in Biology with or without a concentration in Biotechnology, the Bachelor of Arts in Human Biological Sciences, and the Master of Science in Biology. Throughout its curriculum the Department emphasizes evolution and the relationship between organisms and the environment. Classes include extensive field and laboratory investigations allowing students to observe and measure biological systems. Students are encouraged to select elective courses best suited to their interests. See Biology Tracks below. A detailed description of student learning goals and objectives can be found at http://www.csub.edu/biology/.

The Bachelor of Arts Degree in Human Biological Sciences curriculum includes a specific set of courses designed to provide students with a foundation in Biology in Human/Health related fields. This degree is not intended for pre-medical or pre-professional students.

Program Requirements

Students seeking a Bachelor of Arts degree with a major in Human Biological Sciences must complete the following:

Code	Title	Units
General Education Requirements		
First-Year Seminar (FYS)		
Lower Division Area A: Foundational Skills		
Lower Division Area B: Natural Sciences ³		
Lower Division Area C: Arts and Humanities		
Lower Division Area D: Social and Behavioral Sciences		
Lower Division Area E: Student Enrichment and Lifelong Learning (SELF) ⁴		
Lower Division Area F: Ethnic Studies		
American Institutions: Government and History		
Junior Year Diversity & Reflection (JYDR)		
Graduation Writing Assessment Requirement (GWAR)		
Upper Division Thematic Area C and D		
General Education Capstone ⁴		
General Education Subtotal ⁶		

Major Requirements

Total Units	1:	23-124
Additional Units N	leeded Towards Graduation ⁵	12
Major Subtotal	_	70-71
SOC 2208	Introduction to Statistics in the Social Sciences	
PSYC 2018	Introduction to Statistical Methods in Psychological Research	3
KINE 2018	Introduction to Statistics for Health Sciences	
MATH 1209	Statistics in the Modern World	
MATH 2200	Introduction to Statistical Concepts and Method	ls
Select one of the	following:	3-4
MATH 1050	Precalculus I (or equivalent)	4
CHEM 2300	Foundations of Organic Chemistry	3
CHEM 1001	Foundations of Chemistry Laboratory	2
CHEM 1000	Foundations of Chemistry	3
or BIOL 2600	Current Health Problems	
NURS 2190	Lifespan Development	3
Cognates ¹		
BIOL 4928	Senior Seminar	2
BIOL 4200	Medical Microbiology	4
BIOL 3540	Hematology	3
BIOL 3530	Immunology	3
BIOL 3440	Virology	3
BIOL 3430	Parasitology	3
BIOL 3220	Human Pathophysiology	4
BIOL 3210	Human Ecology	3
BIOL 3020	General Physiology	3
BIOL 3010	General Genetics	3
Upper division		
BIOL 2240	Principles of Nutrition	2
BIOL 2230	Microbiology	4
BIOL 2220	Human Physiology	4
BIOL 2210	Human Anatomy	4
BIOL 2010	Introductory Biology - Cells ²	4
Lower division		
Core Requirement	rs .	
Biology courses ¹		
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A minimum GPA for these units is 2.0

Note: A grade of C- or better in BIOL 2010 Introductory Biology - Cells is required to advance into upper division Biology courses.

A modification to the standard GE program has been approved that allows the possibility of satisfying some GE requirements through the major. BIOL 2010 Introductory Biology - Cells or BIOL 2110 Introductory Biology - Animals satisfies B2, MATH 1050 Precalculus I or higher satisfies B4, and CHEM 1000 Foundations of Chemistry satisfies B1.

The SELF requirement is met by completing a LD Area B, C, or D course with a SELF component. The Capstone requirement is met by completing BIOL 4928 Senior Seminar.

Human Biological Sciences majors are encouraged to consider taking additional upper-division biology courses or additional upper-division scientific cognate courses to fulfill their university-wide additional unit requirement. Depending on student career objectives, faculty advisors may be able to recommend courses that would be appropriate, and

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students are encouraged to speak with their faculty advisor about course options.

6 Some General Education requirements are included in major.