

HUMAN BIOLOGY

missioncollege.edu/depts/biology

Department Chair: Kelly Neary
408-855-5588 | SCI-119
kelly.neary@missioncollege.edu
Dean: Clement Lam

Human Biology: Associate in Science (AS)

The Human Biology Associate in Science degree provides a solid foundation in the biological sciences for students who are seeking entry to nursing and related health occupations. Completion of this degree meets all Biology and Chemistry prerequisites for admission to the LVN and LVN-RN programs, and fulfills many of the lower-division requirements for a variety of baccalaureate degrees in Health Sciences. This degree is not intended for pre-medical, pre-dental, or pre-pharmacy students (see A.S. or AS-T in Biological Sciences instead).

Program Learning Outcomes:

- Students will describe the gross and microscopic structure of the major organs of the human body.
- Students will describe homeostatic control mechanisms of the different body systems, and how they relate to the maintenance of good health.
- Students will compare and contrast commensurable, opportunistic, and pathological relationships between humans and microorganisms.

Career/Transfer Opportunities:

A solid background in human biology is required for many undergraduate majors and careers in the allied-health field.

To earn this degree, students must meet the following requirements:

1. Completion of 60 degree applicable units with an overall GPA of 2.0.
2. Completion of a minimum of 18 semester units in the major with a grade of C (or P) or better.
3. Completion of the AA/AS Graduation Requirements, CSU GE-B or IGETC.

Core Requirements (15 units):

Complete fifteen units from the following		Units
BIO 004	Microbiology	5.0
BIO 047	Human Anatomy	5.0
BIO 048	Human Physiology -OR-	5.0
BIO 048H	Human Physiology - Honors	5.0

Electives (9 units): Complete a minimum of nine units from the following

		Units
ANT 001	Physical Anthropology	3.0
BIO010	Introduction to Biology	3.0
BIO010L	Introduction to Biology Lab	3.0
BIO 011	Human Biology	4.0
BIO 012	Emerging Infectious Diseases -OR -	3.0
BIO012H	Emerging Infectious Diseases - Honors	3.0
BIO 014	Introductory Neuroscience -OR-	3.0
BIO 014H	Introductory Neuroscience - Honors	3.0
BIO 017	Genetics and Society -OR-	3.0
BIO 017H	Genetics and Society - Honors	3.0
BIO018	The Biology of Cancer -OR-	3.0
BIO018H	The Biology of Cancer - Honors	3.0
BIO 022	Anatomy and Physiology for Allied Health Workers	4.0
CHM 001A	General Chemistry I -OR-	5.0
CHM 001AH	General Chemistry I - Honors	5.0
CHM 030A	Fundamentals of Chemistry I	4.0
CHM 060	Survey of General, Organic, and Biological Chemistry	4.0
HOC 001	Medical Terminology	3.0
NTR 015	Human Nutrition -OR-	3.0
NTR015H	Human Nutrition - Honors	3.0
NTR 040	Nutrition and Disease -OR-	3.0
NTR040H	Nutrition and Disease	3.0

Required Units for the Major: 24.0

Completion of General Education Requirements and electives as needed to reach 60 units.

Total Required Units: 60.0