

HUMAN BIOLOGY B.S.

Program Learning Outcomes

1. **Demonstrate** proficiency in general biology concepts and theories.
2. **Analyze** and evaluate scientific information.
3. **Articulate** issues relating to biology and society within the Christ-centered word view.

Requirements

Code	Title	Units
	Core Curriculum Requirements (https://catalog.vanguard.edu/interdisciplinary-offerings/core-curriculum/) ¹	40
	Biology Major Requirements	63-64
	General Electives	17-16
	Total Units	120

Human Biology Major

Code	Title	Units
BIOL-111 & 111L	Principles of Cell and Molecular Biology and Principles of Cell/Molecular Biology Lab	4
BIOL-204C & 204CL	Human Anatomy and Human Anatomy Laboratory	4
BIOL-209 & 209L	Principles of Microbiology and Principles of Microbiology Lab	4
BIOL-304 & 304L	Human Physiology and Human Physiology Lab	4
BIOL-310	Human Genetics	3
BIOL-335	Biology of Cancer	3
BIOL-342	Human Ecology	3
BIOL-402	Human Histology	3
BIOL-452	Human Biology Internship	1-2
BIOL-499C	Capstone Seminar in Biology	2
CHEM-100C & 100CL	Integrated Chemistry and Integrated Chemistry Laboratory	5
MATH-270C	Health Professions Statistical Methods	3
PSYC-103C	Introduction to Psychology	3

Choose 21 units from the following, in consultation with your Student Success Coordinator and faculty, to align with career goals:

BIOL-112	Principles of Organismal Biology
BIOL-220 & 220L	Cell Biology and Cell Biology Lab
BIOL-241	Spanish Medical Terminology
BIOL-353	Neuropharmacology
BIOL-432 & 432L	Neuroscience and Neuroscience Lab
BIOL-451 & 451L	Immunology and Immunology Lab
BIOL-456	Principles of Conservation Biology

BIOT-200 & 200L	Introduction to Biotechnology and Introduction to Biotechnology Laboratory
CHEM-120 & 120L	General Chemistry I and General Chemistry I Lab
CHEM-121 & 121L	General Chemistry II and General Chemistry II Lab
CHEM-430 & 430L	Biochemistry and Experimental Tech/Biochemistry
PSCI-130C & 130CL	General Physics I and General Physics I Lab
PSCI-131 & 131L	General Physics II and General Physics II Lab
MATH-180C	Calculus 1
PSYC-309	Nutritional Psychology
SOC-337	Public Health
Total Units	63-64

¹ The following courses are recommended, but not required: SOC-316 Health Education for Flourishing, PSYC-308 Mental Health in Latino Communities, and PSYC-312 Death, Grief, and Loss .

Four Year Plan

Disclaimer: This sample Four Year Plan is provided as a guide for the recommended sequencing of courses. Vanguard University requires that students complete a minimum of 120 units of required course work as outlined on the Requirements tab in order to receive a Bachelor of Arts, Bachelor of Music, Bachelor of Science, or Bachelor of Science in Nursing degree. It is the student's responsibility to confirm with the department the course rotation before enrolling in courses. If applicable, please note the footnotes at the bottom of the page for additional information related to courses listed in a particular year and term. Questions, contact the Department of Biology.

Study Abroad Participation: Students interested in participating in the university's Study Abroad programs are encouraged to reach out to the Global Education and Outreach Office (studyabroad@vanguard.edu) for more information and collaboration in their academic course planning. Students using Education and Training Benefits through the U.S. Department of Veteran Affairs are encouraged to also reach out to the School Certifying Official (veteranscertifyingofficial@vanguard.edu) for more information regarding how benefits can be applied.

