

BIOLOGY B.S. WITH A CONCENTRATION IN ECOLOGY

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's degree. It is the student's responsibility to confirm with the department the course rotation before enrolling in courses. Questions, contact the Department of Biological Sciences.

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.

Course	Title	Units
Year 1 Term 1		
BIOL-111	Principles of Cell and Molecular Biology	3
BIOL-111L	Principles of Biology Lab, Principles of Cell/ Molecular Biology Lab	1
CHEM-120	General Chemistry I	3
CHEM-120L	General Chemistry I Lab	1
CORE-100C	Cornerstone	1
NT-101C	New Testament Survey	3
ENGL-120C	Persuasive Writing	3
Units		15
Year 1 Term 2		
BIOL-112	Principles of Organismal Biology	3
BIOL-112L	Principles of Organismal Biology Lab	1
CHEM-121	General Chemistry II	3
CHEM-121L	General Chemistry II Lab	1
MATH-180C	Calculus 1	4
PSYC-103C	Introduction to Psychology	3
Units		15
Year 2 Term 1		
BIOL-220	Cell Biology	3
BIOL-220L	Cell Biology Lab	1
ENGL-220C	Researched Writing	3
COMM-201C	Speech Composition and Presentation	3
THEO-101C	Foundations of Christian Life	3
KINE-148C	Lifetime Fitness and Wellness Lecture	3
Units		16
Year 2 Term 2		
BIOL-311	Genetics	3

BIOL-311L	Genetics Laboratory	1
FINA-PLCR	Fine Arts Core Curriculum Requirement	3
OT-201C	Old Testament Survey	3
BIOL-315L	Ecology Field and Lab Practicum	1
BIOL-315	General Ecology	3
BIOL-STATS	Statistics Option	3

Units 17

Year 3 Term 1

PSCI-PLGP1	Physics 1 Requirement	4
CHEM-304	Organic Chemistry I	3
CHEM-304L	Organic Chemistry Techniques I	1
BIOL-309	Microbiology	3
BIOL-309L	Microbiology Laboratory	1
BIOL-366	Plant Ecology	3
BIOL-366L	Plant Ecology Lab	1

Units 16

Year 3 Term 2

PSCI-PLGP2	Physics 2 Requirement	4
SOC-100C	Introduction to Sociology	3
HIST-PLHD	History Core Requirement	3
BIOL-346C	Desert Field Ecology	4

Units 14

Year 4 Term 1

BIOL-345C	Mountain Field Biology	4
HIST-PLCR2	History Core Requirement (World Civ)	3
THEO-300C	Developing a Christian World View	3
BIOL-485	Undergrad Biological Research	1-4
BIOL-ECOLE	BIOL/ENVR Elective	3-4

Units 14-18

Year 4 Term 2

CHIS-400C	Christian Heritage	3
ENGL-230C	Literature and the Human Experience	3
BIOL-456	Principles of Conservation Biology	3
BIOL-499C	Capstone Seminar in Biology	2
BIOL-ECOLE	BIOL/ENVR Elective	3-4

Units 14-15

Total Units 121-126

