BIOLOGY B.S. WITH A CONCENTRATION IN BIOMEDICAL SCIENCE

Four Year Plan

<u>Disclaimer</u>: This <u>sample</u> 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 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.

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
PSYC-103C	Introduction to Psychology	3
MATH-180C	Calculus 1	4
	Units	15
Year 2 Term 1		
BIOL-220	Cell Biology	3
BIOL-220L	Cell Biology Lab	1
CHEM-304	Organic Chemistry I	3
CHEM-304L	Organic Chemistry Techniques I	1
ENGL-220C	Researched Writing	3
KINE-148C	Lifetime Fitness and Wellness Lecture	3

	Total Units	124-127
	Units	16
BIOL-PLHD8	Biology Elective 8 Units	8
ENGL-230C	Literature and the Human Experience	3
CHIS-400C	Christian Heritage	3
BIOL-499C	Capstone Seminar in Biology	2
Year 4 Term 2		
	Units	15-18
SOC-100C	Introduction to Sociology	3
THEO-300C	Developing a Christian World View	3
CHEM-430L	Experimental Tech/Biochemistry	1
CHEM-430	Biochemistry	3
BIOL-485	Undergrad Biological Research	1-4
BIOL-302L	Comp Vertebrate Anatomy Lab	1
BIOL-302	Comparative Vertebrate Anatomy	3
Year 4 Term 1	Oilits	15
THS I-F LUNZ	History Core Requirement (World Civ) Units	15
HIST-PLCR2	Biology Elective	3
BIOL-PLHD4	General Physics II Lab	4
PSCI-131 PSCI-131L	•	3 1
PSCI-131	General Physics II	3
BIOL-304	Human Physiology Human Physiology Lab	3 1
BIOL-304	Human Physiology	3
Year 3 Term 2	Onits	14
IIISTFLUNT	Units	3 14
HIST-PLCR1	History Core Req (US Hist Or Democracy)	3
COMM-201C	General Physics I Lab Speech Composition and Presentation	3
PSCI-130C PSCI-130CL		1
PSCI-130C	Microbiology Laboratory General Physics I	3
BIOL-309		1
BIOL-309	Microbiology	3
Year 3 Term 1	Oliita	17
FINA-FLUK	Fine Arts Core Curriculum Requirement Units	3 17
OT-201C FINA-PLCR	Old Testament Survey	3
MATH-265C		3
CHEM-305L	Organic Chemistry Technqs II Intro to Statistical Methods	1
CHEM-305	Organic Chemistry II	3
BIOL-311L	Genetics Laboratory	1
BIOL-311	Genetics	3
Year 2 Term 2		
	Units	17
THEO-101C	Foundations of Christian Life	3

Notes:

 Year 1, Term 1: Must pass the respective Chemistry and/or Math placement exam(s).



