## 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		
CORE-100C	Cornerstone	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
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
THEO-PLHD	Theology Core Requirement	3

	Total Units	124-127
	Units	12
BIOL-PLHD4	Biology Elective	4
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	17
SOC-PLCR	Social Science Core Curriculum Regm't	3
BIOL-PLHD4	Biology Elective	4
THEO-300C	Developing a Christian World View	3
HIST-PLCR2	History Core Requirement (World Civ)	3
CHEM-430L	Experimental Tech/Biochemistry	1
CHEM-430	Biochemistry	3
Year 4 Term 1	Oliita	10-19
III91-PLUKI	History Core Req (US Hist Or Democracy)  Units	3 16-19
BIOL-485 HIST-PLCR1	Undergrad Biological Research	
BIOL-PLHD4	Biology Elective	1-4
BIOL-304L	Human Physiology Lab	1
	Human Physiology	3
PSCI-PLGP2 BIOL-304	Physics 2 Requirement	4
Year 3 Term 2	Dhysica 2 Deguirement	4
V 2 T 2	Units	15
COMM-201C	Speech Composition and Presentation	3
BIOL-309L	Microbiology Laboratory	1
BIOL-309	Microbiology	3
PSCI-PLGP1	Physics 1 Requirement	4
BIOL-302L	Comp Vertebrate Anatomy Lab	1
BIOL-302	Comparative Vertebrate Anatomy	3
Year 3 Term 1		
	Units	17
BIOL-STATS	Statistics Option	3
BIOL-311L	Genetics Laboratory	1
BIOL-311	Genetics	3
FINA-PLCR	Fine Arts Core Curriculum Requirement	3
OT-201C	Old Testament Survey	3
CHEM-305L	Organic Chemistry Technqs II	1
CHEM-305	Organic Chemistry II	3
Year 2 Term 2		
	Units	17
KINE-148C	Lifetime Fitness and Wellness Lecture	3

## Notes:

- Year 1, Term 1: Must pass the respective Chemistry and/or Math placement exam(s).
- Year 1, Term 2: PSYC-103C Introduction to Psychology is a Social Science requirement for this major.

