

# BIOTECHNOLOGY B.S.

## Requirements

Code	Title	Units
Core Curriculum Requirements ( <a href="https://catalog.vanguard.edu/college/core-curriculum/">https://catalog.vanguard.edu/college/core-curriculum/</a> )		47-44
Major Core Requirements		81
<b>Total Units</b>		<b>128-125</b>

## Biotechnology Major Core Requirements

Code	Title	Units
<b>Biology Core Curriculum Major Requirements</b>		
BIOL-111 & 111L	Principles of Cell and Molecular Biology and Principles of Biology Lab, Principles of Cell/ Molecular Biology Lab	4
BIOL-112 & 112L	Principles of Organismal Biology and Principles of Organismal Biology Lab	4
BIOL-220 & 220L	Cell Biology and Cell Biology Lab	4
CHEM-120 & 120L	General Chemistry I and General Chemistry I Lab	4
CHEM-121 & 121L	General Chemistry II and General Chemistry II Lab	4
CHEM-304 & 304L	Organic Chemistry I and Organic Chemistry Techniques I	4
CSCI-100C & 100CL	Introduction to Computer Science and Introduction to Computer Science Lab	4
MATH-180C	Calculus I	4
MATH-270C or MATH-265C	Health Professions Statistical Methods Intro to Statistical Methods	3
BIOT-200 & 200L	Introduction to Biotechnology and Introduction to Biotechnology Laboratory	4
BIOL-309 & 309L	Microbiology and Microbiology Laboratory	4
PSCI-130C & 130CL	General Physics I and General Physics I Lab	4
PSCI-131 & 131L	General Physics II and General Physics II Lab	4
BIOL-485 or BIOL-488	Undergrad Biological Research Biology Senior Project	2
BIOL-440 & 440L	Molecular Biology and Techniques in Molecular Biology	4
CHEM-430 & 430L	Biochemistry and Experimental Tech/Biochemistry	4
BIOL-403	Biotechnology	6
BIOL-499C	Capstone Seminar in Biology	2
BIOL-405 & 405L	Bioinformatics and Bioinformatics Laboratory	4
MNGT-325	Management Theory/Practice	3
<b>Total Units</b>		<b>76</b>

## 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 Biological Sciences.

[[ Add Custom Plan with the BIOT four year plan information ]]

