

# BIOLOGY MINOR

## Requirements

A minor in Biology comprised of 19-20 credits of Biology (BIOL) courses with a minimum of 12 credits taken at Vanguard.

Code	Title	Units
BIOL-111 & 111L	Principles of Cell and Molecular Biology and Principles of Biology Lab, Principles of Cell/ Molecular Biology Lab <sup>1</sup>	4
BIOL-112 & 112L	Principles of Organismal Biology and Principles of Organismal Biology Lab	4
<b>Electives</b>		
Select three lecture/laboratory courses from BIOL <sup>2</sup>		11-12
BIOL-204C & 204CL	Human Anatomy and Human Anatomy Laboratory	
BIOL-220 & 220L	Cell Biology and Cell Biology Lab	
BIOL-304 & 304L	Human Physiology and Human Physiology Lab	
BIOL-309 & 309L or BIOL-209 & 209L	Microbiology and Microbiology Laboratory Principles of Microbiology and Principles of Microbiology Lab	
BIOL-315 & 315L	General Ecology and Ecology Field and Lab Practicum	
BIOL-335	Biology of Cancer	
BIOL-345C	Mountain Field Biology	
BIOL-346C	Desert Field Ecology	
BIOL-348C	Coastal Ecology	
BIOL-365	Neurobiology of Learning and Memory	
BIOL-404	Neuropharmacology	
BIOL-432 & 432L	Neuroscience and Neuroscience Lab	
BIOL-440 & 440L	Molecular Biology and Techniques in Molecular Biology	
BIOL-451 & 451L	Immunology and Immunology Lab	
<b>Total Units</b>		<b>19-20</b>

1

BIOL-100C Fundamentals of Biology for Non-Majors may not be taken in addition to BIOL-111 Principles of Cell and Molecular Biology to fulfill the Biology Minor Requirements.

2

In consultation with your academic advisor, select five lecture/lab combinations that best align with your career goals. Additional course selections in Biology or a related-field maybe approved on a case-by-case basis

