



2023-2024

B.S. or B.A. BIOLOGY

(General or Neurobiology Concentrations)



GRACE CORE (39 credits)

Students will integrate faith and learning across disciplines, demonstrate foundational knowledge and ways of knowing, cultivate characteristics of maturity in relationships with God, others, self, and the world, and apply knowledge to all aspects of life through intellectual and practical skills.

1000-Level Courses

First-Year Learning Communities

FYE 1000	First-Year Foundations	3	@
BIB 1050	Exploring the Bible	3	
PSY 1200	Essentials of Behavioral Science	3	
HIS 1050	Current Issues in Historical Context	3	@

First-Year Learning Competencies

ENG 1100	Effective Writing	3
COM 1100	Public Speaking	3

2000-Level Courses

HUM 2100	Creative Arts & Culture	3
HUM 2000	Global Perspectives	3
SCI 2030	Faith, Science, & Reason	3
HUM 2010-30	Cross-Cultural Field Experience	0
BIB 2010	Scripture and Interpretation	3

3000-Level Courses

ECN 3000	Consumer Economics	3
PHI 3010	Christianity and Critical Thinking	3
BIB 3300	Essential Doctrinal Themes	3

ADDITIONAL GENERAL EDUCATION--B.A. or B.S. DEGREE (6 credits)

Satisfies B.S. Degree

MAT 1000+	Any Math (1000 Level and Above)	3
	Any Science/Social Science with the following course prefix: PSY, BHS, SOC, ECN, HIS, POS, GEO	3

Satisfies B.A. Degree

FRE/SPA	Proficiency in Language & Culture	6
GRE/HEB	French, Spanish, Greek, Hebrew	

THE MAJOR (50-53 credits)

REQUIRED BIOLOGY COURSES (17 credits)

BIO 1610	General Biology I	4
BIO 1620	General Biology I Lab	0
@ BIO 1710	General Biology II	4
@ BIO 1720	General Biology II Lab	0
@ BIO 3110	Cell and Molecular Biology	3
@ BIO 4210	Genetics	3
@ BIO 4010	Senior Seminar	3

PHYSICAL SCIENCE REQUIREMENT (4 credits)

Choose one:

@ PHY 2140/2150	College Physics I + Lab	4
@ PHY 2160/2170	College Physics II + Lab	4

ADDITIONAL MATH REQUIREMENT (4 credits)

MAT 1230/1240	Calculus I + Lab	4
---------------	------------------	---

Choose a concentration:

GENERAL BIOLOGY CONCENTRATION (22 credits)

@ ENV 2110/2120	General Ecology I + Lab	4
BIO 2210	Nutrition	3
@ BIO 2410/2420	Plant Biology + Lab	4
@ BIO 2510/2520	Animal Biology + Lab	4
@ BIO 3400	Developmental Biology	3
@ BIO 4110/4120	Microbiology + Lab	4

EXPERIENTIAL LEARNING REQUIREMENT (3 credits)

BIO 29X0	Biology Internship	(1-3)
BIO 48X0	Research in Bio Science	(1-3)

Grace/LCMC NEUROBIOLOGY CONCENTR. (25 credits)

@ PSY 2170	Abnormal Psychology	3
@ CHM 3610	Analytical & Environmental Chemistry	3
@ BIO 3210	Advanced Anat & Phys I	4
@ BIO 3220	Advanced Anat & Phys I Lab	0
† NSC 3110/NSM I	Neuroscience Foundations	3
† NSC 3120/NSM II	Biological Basis of Perception & Movement	3
† NSC 3130/NSM III	Cognitive Neuroscience	3
† NSC 3140/NSM IV	Clinical Neuropathology	3
@ BIO 3710	Pathophysiology	3

A CHEMISTRY MINOR IS REQUIRED WITH THIS MAJOR

Notes about this major:

(adds 19 credits)

*In addition to 3 hours of Bachelor of Science math requirement

TOTAL CREDITS NEEDED TO GRADUATE: 120

GRADUATION REQUIREMENTS

To receive this degree, each student must satisfy checklist requirements, earn 120 credit hours, including 3 hours of experiential learning; and, have a 2.2 GPA in major courses with a GPA of 2.0 overall. It is the student's responsibility to work with his/her advisor in monitoring progress toward these goals. Some majors and/or minors may have more stringent guidelines.

† Indicates a course taught by a partner college/university.

@ Indicates a course with prerequisites. Please review catalog for prerequisites.