



Department of Biological Sciences
College of Science, Technology, Engineering, and Math (2026-27)

Suggested Curriculum Guide for B.S. in Biomedical Sciences, Pre-Medical Concentration

Freshman (1st Semester) 17-19 hrs

GSD 101 Foundations of Learning	3
BIO 111/BIO 111L Cell & Molecular Biology	4
CHE 111 (<i>fulfills Gen. Ed.</i>) General Chemistry I	3
CHE 111L General Chemistry I Lab	1
MAT 120 or higher (MAT 234 recommended) Trig. <i>or</i> higher	3-5 (4)
Gen. Ed. Element	3

Freshman (2nd Semester) 17 hrs

BIO 112/BIO 112L Ecology & Evolution	4
CHE 112 General Chemistry II	3
CHE 112L General Chemistry II Lab	1
PSY 200 Intro to Psychology	3
SOC 131 <i>or</i> HON 312 (<i>fulfills Gen. Ed.</i>)	3
Gen. Ed. Element	3

Sophomore (1st Semester) 16 hrs

BIO 208/BIO 208L Anatomy & Physiology I	4
CHE 361 Organic Chemistry I	3
CHE 361L Organic Chemistry I Lab	1
PHY 131 College Physics <i>or</i> PHY 201 Univ. Physics	5
Gen. Ed. Element	3

Sophomore (2nd Semester) 15 hrs

BIO 332 Careers in Biomedical Sciences	1
BIO 320 Principles of Microbiology	4
CHE 362 Organic Chemistry II	3
CHE 362L Organic Chemistry II Lab	1
PHY 132 <i>or</i> PHY 202 College Phys II or Univ. Phys. II	5
Free Elective	1

Junior (1st Semester) 13-14 hrs

BIO 331 Cell Biology	3
CHE 430 Biochemistry of Macromolecules	3
STA 215 <i>or</i> STA 270 (<i>fulfills Gen. Ed.</i>) (STA 270 recommended) Intro to Stats <i>or</i> Applied Stats	3-4
BIO 308/BIO 308L Anatomy & Physiology II	4

Junior (2nd Semester) 16 hrs

BIO 315 Genetics	4
BIO 348 Vertebrate Physiology	3
CHE 431 Metabolic Biochemistry	3
PHI 383 Health & Biomedical Ethics	3
Gen Ed. Element	3

Senior (1st Semester) 16-17 hrs

PSY 280 <i>or</i> 308 Life Span Dev. Psychology or Stat-Research Meth. I	3
†Restricted Elective	3-4
Gen Ed. Element	3
Gen. Ed. Element	3
BIO 527 Immunology	4

Senior (2nd Semester) 10-14 hrs

BIO 495 Evolutionary App. & Theory	1
Restricted Elective	3-4
Gen. Ed. Element	3
Free Elective	3
Free Elective	0-2

^cDenotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division BIO courses.

. ♣ Due to variable course hour choices for MAT requirement and concentration requirements, marked free electives may also be variable.

Consult with your advisor to ensure you have a minimum of 120 total credit hours for graduation.

UNIVERSITY GRADUATION REQUIREMENTS 33 hours

General Education 30 hours

Foundations in Learning (GSD 101; waived for transfers with 30+ hrs) 3 hours

MAJOR REQUIREMENTS

Core Courses 28 hours

BIO 111, BIO 111L, BIO 112, BIO 112L, BIO 208, BIO 208L, BIO 308, BIO 308L, BIO 315, BIO 320, BIO 331, BIO 332, BIO 348, BIO 495, BIO 527

Concentration Requirements 24-28 hours

*CHE 362, *CHE 362L, *CHE 430, *CHE 431, *MAT 120 (or higher), *PHY 132 or *PHY 202

† PLUS 6 (SIX) HOURS selected from the following (restricted elective):

BIO 319, BIO 342, BIO 528, BIO 531, BIO 535, BIO 546, BIO 547, BIO 549, BIO 598, *CHE 432

Supporting Course Requirements 23-24 hours

CHE 111, *CHE 111L, CHE 112, CHE 112L, *CHE 361, CHE 361L, PHI 383, ^c*PHY 131 or ^c*PHY 201, ^c

STA 215 or STA 270, PSY 200, PSY 280 or PSY 308, ^cSOC 131 Intro to Sociology or ^c*HON 312 Honors Seminar in Social and Behavioral Sciences

Free Electives 7-12 hours

Total Curriculum Requirements 120 hours