



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

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

Freshman (1st Semester) 17 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
PSY 200 <i>or</i> PSY 200W	3
Gen. Ed. Element	3

Freshman (2nd Semester) 15-19 hrs

BIO 112/BIO 112L Ecology and Evolution	4
CHE 112 General Chemistry II	3
CHE 112L General Chemistry II	1
EMC 105 <i>or</i> HCA 200 Survey of Medical Term <i>or</i> Medical Term	1-3
MAT 120 <i>or higher</i> Trigonometry or higher	3-5
Gen. Ed. Element	3

Sophomore (1st Semester) 16 hrs

BIO 208/208L Human Anat. & Phys. I	4
CHE 361 Organic Chemistry I	3
CHE 361L Organic Chemistry I Lab	1
PHY 131 College Physics I <i>or</i> PHY 201 Univ. Physics I	5
ANT 120 <i>or</i> SOC 131 Intro to Culture Anthro. <i>or</i> Intro to Sociology	3

Sophomore (2nd Semester) 15 hrs

BIO 308/BIO 308L Human Anat. & Phys. II	4
BIO 332 Careers in Biomedical Sciences	1
BIO 320 Principles of Microbiology	4
Gen. Ed. Element	3
PSY 280 Lifespan Development Psych.	3

Summer

*Note: While not required, it is strongly recommended that students complete **THREE (3) HOURS** of BIO 349: Applied Learning in Biology or 349A: Cooperative Study: Biology in lieu of a marked (✱) free elective.*

Junior (1st Semester) 13-14 hrs

Free Elective	3
BIO 331 Cell Biology	3
Free Elective	3
STA 215 Intro to Stats <i>or</i> STA 270 Applied Stats	3-4
Free Elective	1

Junior (2nd Semester) 16 hrs

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

Senior (1st Semester) 14-17 hrs

Restricted Elective	3
Gen. Ed. Element	3
BIO 527 Immunology	4
Free Elective	4
Free Elective	0-3

Senior (2nd Semester) 15-16 hrs

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

^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 Education30 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 16-18 hours

EMC 105 or HCA 200, *MAT 120 (or higher)

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

BIO 319, BIO 528, BIO 531, BIO 535, BIO 546, BIO 547, BIO 549, BIO 598, CHE 362, CHE 362L, *CHE 430, *CHE 431, *CHE 432

Supporting Course Requirements 23-24 hours

ANT 120 or SOC 131, ^cCHE 111, *CHE 111L, *CHE 112, *CHE 112L, *CHE 361, *CHE 361L, PHI 383 or PHI 383W, ^c* PHY 131 or ^c* PHY 201, ^cPSY 200 Intro to Psych. or ^cPSY 200W, PSY 280 Lifespan Development Psych. or PSY 280W, ^cSTA 215 or *STA 270

Free Electives11-17 hours

Total Curriculum Requirements 120 hours