



Department of Biological Sciences
College of Science, Technology, Engineering,
and Math (2025-26)

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

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning	3
BIO 111/L- Cell and Molecular Biology/Lab	4
⁶ CHE 111 (<i>fulfills Gen. Ed. 4</i>)- General Chemistry I	3
CHE 111L- General Chemistry I Lab	1
⁶ PSY 200 (<i>fulfills Gen. Ed. 5B</i>)- Introduction to Psychology	3
Gen. Ed. 1A (<i>ENG 101</i>)	3

Sophomore (1st Semester) 15 hrs

BIO 208 and 208L- Human Anatomy	4
CHE 361- Organic Chemistry I	3
CHE 361L- Organic Chemistry I Lab	1
⁶ PHY 131 <i>or</i> 201 (<i>fulfills Gen. Ed. 4</i>)- College Physics I or University Physics I	5
ANT 120 <i>or</i> SOC 131- Intro to Cultural Anthropology <i>or</i> Introductory Sociology	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 free elective.

Junior (1st Semester) 15-16 hrs

BIO 319- Zoology	4
BIO 331- Cell Biology	3
PHI 383- Health & Biomedical Ethics	3
⁶ STA 215 <i>or</i> STA 270 (<i>fulfills Gen. Ed. 2</i>)- Intro. to Statistical Reasoning <i>or</i> Applied Statistics	3-4
Free Elective	1

Senior (1st Semester) 15-16 hrs

†Restricted Elective	3-4
Gen. Ed. 3A (<i>Arts</i>)	3
Gen. Ed. 5B course 2	3
Free Elective	4
Free Elective	0-3

Freshman (2nd Semester) 15-19 hrs

BIO 112/L- Ecology and Evolution/Lab	4
CHE 112- General Chemistry II	3
CHE 112L- General Chemistry II Lab	1
EMC 105 <i>or</i> HCA 200- Survey of Medical Terminology <i>or</i> Medical Terminology	1-3
MAT 120 <i>or higher</i> - Trigonometry	3-5
Gen. Ed. 1B (<i>ENG 102</i>)	3

Sophomore (2nd Semester) 14 hrs

BIO 308- Human Anatomy & Physiology II	3
BIO 332- Careers in Biomedical Sciences	1
BIO 320- Principles of Microbiology	4
INF 104- Computer Literacy with Software Apps.	3
PSY 280- Lifespan Developmental Psychology	3

Junior (2nd Semester) 16 hrs

BIO 315- Genetics	4
BIO 348- Vertebrate Physiology	3
Gen. Ed. 1C (<i>CMS 100 or 210</i>)	3
Gen Ed. 3B (<i>Humanities</i>) course 1	3
Gen. Ed. 5A (<i>History</i>)	3

Senior (2nd Semester) 15 hrs

BIO 495- Evolution Theory and Application	1
†Restricted Elective	3-4
Gen Ed. 3B course 2	3
Free Elective	3
Free Elective	3
Free Elective	0-3

^{6G} Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS

General Education
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

39 hours

36 hours
3 hours

MAJOR REQUIREMENTS

Core Courses

BIO 111, BIO 112, BIO 315, BIO 319, BIO 320, BIO 331, BIO 332, BIO 348, BIO 495

28 hours

Concentration Requirements

BIO 307, BIO 308, EMC 105 or HCA 200, *MAT 120 (or higher)

16-18 hours

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

BIO 527, 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

ANT 120 or SOC 131, ⁶CHE 111, *CHE 111L, *CHE 112, *CHE 112L, *CHE 361, *CHE 361L, INF 104, PHI 383 or PHI 383W, ⁶* PHY 131 or ⁶* PHY 201, ⁶PSY 200 or ⁶PSY 200W, PSY 280 or PSY 280W, ⁶STA 215 or *STA 270

23-24 Courses

Free Electives

8-14 hours

Total Curriculum Requirements

120 hours

