



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

Suggested Curriculum Guide for B.S. in Biomedical Sciences, Pre-Veterinary 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
Gen. Ed. Element	3
Gen Ed. Element	3

Freshman (2nd Semester) 14-16 hrs.

BIO 112/BIO 112L Ecology & Evolution	4
CHE 112 General Chemistry II	3
CHE 112L General Chemistry II Lab	1
MAT 120 <i>Trigonometry</i> or higher	3-5
Gen. Ed. Element	3

Sophomore (1st Semester) 16-17 hrs.

BIO 319 Zoology	4
CHE 361 Organic Chemistry I	3
CHE 361L Organic Chemistry I Lab	1
PHY 131 College Physics I <u>or</u> PHY 201 University Physics I	5
STA 215 <u>or</u> STA 270 Intro to Stats or Applied Stats	3-4

Sophomore (2nd Semester) 15 hrs.

BIO 320 Principles of Microbiology	4
BIO 332 Careers in Biomedical Sciences	1
CHE 362 Organic Chemistry II	3
CHE 362L Organic Chemistry II Lab	1
Gen. Ed. Element	3
BIO 208/BIO 208L Anatomy & Physiology I	4

Junior (1st Semester) 13-14 hrs.

BIO 331 Cell Biology	3
BIO308/BIO 308L Anatomy & Physiology II	4
Free Elective	3
Restricted Elective	3-4
Free Elective	1

Junior (2nd Semester) 16 hrs.

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

Senior (1st Semester) 13-17 hrs.

AGR 321 (<i>fall only</i>) Feeds or Feeding <u>or</u> † Restricted Elective	3-4
Gen. Ed. Element	3
Gen. Ed. Element	3
BIO 527 Immunology	4
Free Elective	0-3

Senior (2nd Semester) 13-14 hrs.

AGR 421 (<i>spring only</i>) Animal Nutrition <u>or</u> † Restricted Elective	3-4
BIO 495 Evolutionary Application & Theory	1
Restricted Elective	3
Gen Ed. Element	3
Flex/Elective	3

Ⓒ Denotes 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 22-25 hours

AGR 321 or *AGR 421, *CHE 362, *CHE 362L, *MAT 120 (or higher)

† PLUS 9 (NINE) HOURS selected from the following (restricted elective):

BIO 319, BIO 342, BIO 514, BIO 527, BIO 528, BIO 531, BIO 533, BIO 535, BIO 546, BIO 547, BIO 549, BIO 550, BIO 552, BIO 598, §*CHE 430, §*CHE 431, *CHE 432

Supporting Course Requirements 17-18 hours

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

Ⓒ STA 215 or Ⓒ* STA 270

Free Electives13-17 hours

Total Curriculum Requirements 120 hours