THE UNIVERSITY OF ARIZONA
COLLEGE OF MEDICINE TUCSON
Physiology

# BACHELOR OF SCIENCE IN HEALTH SCIENCES – PHYSIOLOGY AND MEDICAL SCIENCES
## For students starting in the 2026-2027 academic year

**UNIVERSITY REQUIREMENTS**

**University Composition Requirement** **(3-6 units)**
WRIT 101 First-Year Composition **and** 3 _____
WRIT 102 First-Year Composition 3 _____
*OR* WRIT 109H First-Year Composition Honors 3 _____

**Second Language** **(0-8 units)**
Complete *one* of the following:
A) Complete courses through 2nd semester level
B) Pass a language proficiency exam at 2nd semester level

**General Education**
**Exploring Perspectives** **(12 units)**
Artist
_____ 3 _____
Humanist
_____ 3 _____
Social Scientist
_____ 3 _____
Natural Scientist
MCB 181R OR CHEM 151 _____ 3-4 _____

**Building Connections** **(6 units)**
_____ 3 _____
_____ 3 _____

**Civic Institutions** **(3 units)**
_____ 3 _____

**UNIV 101 – Intro to Gen Ed Experience** 1 _____
**UNIV 301 – Gen Ed Portfolio** 1 _____

**Writing Emphasis Course** 300/400-LEVEL COURSE 3_____

**SCIENCE REQUIREMENTS** **(35 units)**
CHEM 151 General Chemistry I 4 _____
CHEM 152 General Chemistry II 4 _____
CHEM 241a Organic Chemistry I Lecture 3 _____
CHEM 243a Organic Chemistry I Lab 1 _____
CHEM 241b Organic Chemistry II Lecture 3 _____
CHEM 243b Organic Chemistry II Lab 1 _____
MCB 181R Introductory Biology I Lecture 3 _____
MCB 181L Introductory Biology I Lab 1 _____
ECOL 182R Introductory Biology II Lecture 3 _____
ECOL 182L Introductory Biology II Lab 1 _____
PHYS 110 Introductory Studio Physics I 4 _____
PHYS 111 Introductory Studio Physics II 4 _____
BIOC 384 Foundations in Biochemistry
***OR*** BIOC 385 Metabolic Biochemistry 3 _____
***OR*** ACBS 445 Nutritional PSIO + Metabolic BIOC

**MATHEMATICS REQUIREMENTS** **(6-8 units)**
**1) Calculus I or Mathematics of the Biological Systems**
MATH 122a **and** MATH 122b 1/4_____
*OR* MATH 125 3 _____
*OR* MATH 119a 4 _____
**2) Calculus II or Biostatistics**
MATH 129 3 _____
*OR* MATH 263 *OR* BIOS 376 *OR* ECOL 379 3 _____

**PHYSIOLOGY AND MEDICAL SCIENCES MAJOR (36 units)**
**Required Courses (14 units)**
PSIO 201 Human Anatomy & Physio I (F, SP, SSI) 4 _____
PSIO 202 Human Anatomy & Physio II (F, SP, SSII) 4 _____
PSIO 303 Integrative Cellular Physio (F only) 3 _____
PSIO 305 Integrative System Physio (SP only) 3 _____

***Students must complete both PSIO 201 and PSIO 202 before being eligible to enroll in any 300/400-level PSIO courses**

### Physiology (22 units)
*Emphasis Requirements*

**I. Complete 12 units from the following: (12 units)**

PSIO 101 Tackling Physiological Topics in Today's Society 3_____
PSIO 404 Advanced Cellular Physiology 3_____
PSIO 411 Scientific Methods and Professional Ethics 3_____
PSIO 420 Exercise Physiology 3_____
PSIO 425 Meas. and Eval of Physiological Function 3_____
PSIO 426 Extreme Physiology 3_____
PSIO 429 Muscle Physiology 3_____
PSIO 431 Physiology of the Immune System 3_____
PSIO 441 Musculoskeletal Kinesiology 3_____
PSIO 442 Biomechanics of Human Movement 3_____
PSIO 450 Respiratory Physiology 3_____
PSIO 452 Digestive Physiology 3_____
PSIO 465 Neurophysiology 3_____
PSIO 467 Endocrine Physiology 3_____
PSIO 469 Reproductive Physiology 3_____
PSIO 472 Quantitative Modeling of Biological Systems 3_____
PSIO 484 Cardiovascular Muscle Biology and Disease 3_____
PSIO 485 Cardiovascular Physiology 3_____
PSIO 487 Physiology of Aging 3_____
PSIO 489 Current Topics in Physiology 3_____

**II. Additional Required Major Electives (10 units)**

**Lectures (complete at least 6 units from approved list)**
Elective Course _____ 1-4_____
Elective Course _____ 1-4_____
Elective Course _____ 1-4_____

**Any major elective (complete at least 4 units from approved list)**
Elective Course _____ 1-4_____
Elective Course _____ 1-4_____
Elective Course _____ 1-4_____

**Graduation Requirements**
**120 units_____** **42 UD units_____**
**2.0+ cumulative GPA_____** **2.0 major GPA_____**

Most students will need additional electives to complete their total units for graduation. Talk with your advisor to plan for what you need!