

## 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 2<sup>nd</sup> semester level  
 B) Pass a language proficiency exam at 2<sup>nd</sup> semester level

#### General Education

**Exploring Perspectives (12 units)**  
 Artist \_\_\_\_\_ 3 \_\_\_\_\_  
 Humanist \_\_\_\_\_ 3 \_\_\_\_\_  
 Social Scientist \_\_\_\_\_ 3 \_\_\_\_\_  
 Natural Scientist \_\_\_\_\_ 3 \_\_\_\_\_  
 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 \_\_\_\_\_ 3 \_\_\_\_\_  
 OR BIOC 385 Metabolic Biochemistry \_\_\_\_\_ 3 \_\_\_\_\_  
 OR ACBS 445 Nutritional PSIO + Metabolic BIOC \_\_\_\_\_ 3 \_\_\_\_\_

#### 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!	