

# CURRICULUM GUIDE: 2017-2018

for students entering in the 2016-2017 academic year

## COLLEGE OF MEDICINE - BACHELOR OF SCIENCE IN HEALTH SCIENCES DEGREE - MAJOR IN PHYSIOLOGY

### Academic Advising

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### UNIVERSITY REQUIREMENTS (27-43 UNITS)

#### University Composition Requirement (3-6 units)

ENGL 101 First-Year Composition	3 _____
ENGL 102 First-Year Composition*	3 _____
OR ENGL 109H First-Year Comp. Honors*	3 _____

#### Mathematics - Strand 'S' (2 courses) (6-8 units)

(Strand 'S' = substantial knowledge of mathematics)

MATH 122a/122b Calculus I with Applications	1/4 _____
OR MATH 125 Calculus I	3 _____
MATH 129 Calculus II	3 _____
OR MATH263 or BIOS376 (Biostatistics)	3 _____

#### Second Language (0-8 units)

Complete **one** of the following:

- A. Pass a language proficiency exam at 2nd semester level
- B. Complete courses through 2nd semester proficiency

#### General Education (21 units)

##### Tier 1 (12 units)

A. Individuals & Society (150a/b/c)	(6 units total)
_____	3 _____
_____	3 _____
B. Traditions & Cultures (160 a**/b/c/d)	(6 units total)
_____	3 _____
_____	3 _____

##### Tier 2 \*\* (9 units)

A. Individuals and Societies (3 units)	3 _____
B. Arts (3 units)	3 _____
C. Humanities (3 units)	3 _____

\*\* Diversity Emphasis \_\_\_\_\_ 3 \_\_\_\_\_

#### \*Mid-Career Writing Assessment

Satisfied by a grade of A or B in ENGL102 or 109H \_\_\_\_\_

### SCIENCE REQUIREMENTS (32 UNITS)

CHEM 151 General Chemistry 1	4 _____
CHEM 152 General Chemistry 2	4 _____
CHEM 241a Organic Chemistry 1 Lecture	3 _____
CHEM 243a Organic Chemistry 1 Lab	1 _____
CHEM 241b Organic Chemistry 2 Lecture	3 _____
CHEM 243b Organic Chemistry 2 Lab	1 _____
MCB 181R Introductory Biology 1 Lecture	3 _____
MCB 181L Introductory Biology 1 Lab	1 _____
ECOL 182R Introductory Biology 2 Lecture	3 _____
ECOL 182L Introductory Biology 2 Lab	1 _____
PHYS 102 Introductory Physics 1 lecture	3 _____
PHYS 181 Introductory Physics 1 Lab	1 _____
PHYS 103 Introductory Physics 2 lecture	3 _____
PHYS 182 Introductory Physics 2 Lab	1 _____

### ELECTIVES:

### PHYSIOLOGY MAJOR (30 UNITS MINIMUM)

#### Required Courses - - - - - (17 units)

∇ PSIO 201 Human Anatomy & Physio 1 (F, S, SSI)	4 _____
∇ PSIO 202 Human Anatomy & Physio 2 (F, S, SSII)	4 _____
PSIO 303 Integrative Cellular Physiology (F)	3 _____
PSIO 305 Integrative System Physiology (S)	3 _____
BIOC 384 Foundations in Biochemistry OR	
BIOC 385 Metabolic Biochemistry	3 _____

∇ Students must earn a grade of "C" or better in PSIO 201 and in PSIO 202 before enrolling in PSIO 300- and 400-level courses.

#### Elective Courses ♦ - - - - - (13 units)

Select 3 courses from among the following: (minimum 9 units)

PSIO 404 Advanced Topics in Cellular Physio (S)	3 _____
PSIO 411 Scientific Methods & Prof Ethics (F, S)	3 _____
PSIO 415 Physiology of Mind Body Inter (F,S)	2 _____
PSIO 420 Exercise & Environ Physiology (F, S)	3 _____
PSIO 425 Measure & Eval Physio Function (F, S)	3 _____
PSIO 426 Extreme Physiology (SSII)	3 _____
PSIO 431 Physiology of Immune System (F, SSI)	3 _____
PSIO 450 Respiratory Physiology (S)	3 _____
PSIO 452 Digestive Physiology (SS, F)	3 _____
PSIO 465 Systems Neurophysiology (S)	3 _____
PSIO 467 Endocrine Physiology (F)	3 _____
PSIO 469 Human Reproductive Physiology (S)	3 _____
PSIO 472 Quantitative Models of Bio-Systems (F)	3 _____
PSIO 484 Cardiovascular/Muscular Biology (S)	3 _____
PSIO 485 Cardiovascular Physiology (F, S)	3 _____
PSIO 489 Current Issues in Physiology (S)	3 _____

\*Students may substitute **one** biological science course (from a list of pre-approved courses) for **one** of these PSIO elective courses.

#### Optional Courses (0 - 4+ units)

\*These courses cannot substitute for above PSIO major electives.

PSIO 295H Intro to Honors Physiology <i>see note</i> (S)	2 _____
PSIO 304 Integrative Cellular Physiology Discussion, taken with PSIO 303A (Honors) only (F)	1 _____
PSIO 391 Preceptorship (F, S)	1-2 _____
PSIO395a PhysioConnects A (F)	1-2 _____
PSIO395b PhysioConnects B (F, S)	1-2 _____
PSIO 399/399H/499/499H Independent Study	1-3 _____
PSIO 492 Directed Research (F,S)	1-3 _____
PSIO495H Senior Honors thesis Preparation <i>note</i> (F)	2 _____
PSIO 498H Senior Honor Thesis <i>see note</i> (F,S)	3-6 _____
PSIO 495K Inflammation & Disease/Colloquium (F,S)	2 _____
PSIO 495S Sex, Matters & Medicine (F)	2 _____

**note: complete PSIO295H prior or PSIO495H concurrent with PSIO498H**

**Required: minimum of 42 units of upper-division credit.** The physiology major could provide 22 of these upper-division units; the remaining 20 units may be taken as Tier 2 courses, optional minor or as general elective courses. **Upper division credit is numbered 300 - 499.**

**TOTAL units for degree = 120 units**

**NOTE: Required courses may not be taken for Pass/Fail (P/F) credit; exceptions are: PSIO 391, 399, 499.**

U. D.

GPA