

CURRICULUM GUIDE: 2018-2019

for students entering in the 2018-2019 academic year

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

Academic Advising

https://ua-trellis.force.com/uastudent or 520-621-4850 or 520-621-2785

UNIVERSITY REQUIREMENTS (30-46 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' (6-8 units)

- (Strand 'S' = substantial knowledge of mathematics)*
- MATH 122A/122B Calculus I w/Applications 1/4 _____
 - OR MATH 125 Calculus I **AND** 3 _____
 - MATH 129 Calculus II **OR** 3 _____
 - MATH 263 (Biostats) **OR** BIOS 376 (Biostats) 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 (21-24 TOTAL UNITS)

Tier 1 (12 total units)

- A. Individuals & Society (150 a,b,c) (6 units)
 - 1 _____ 3 _____
 - 2 _____ 3 _____
- B. Traditions & Cultures (160 **a,b,c,d) (6 units)
 - 1 _____ 3 _____
 - 2 _____ 3 _____

Tier 2 ** (9-12 total units)

- A. Individuals and Societies _____ 3 _____
- B. Arts (3 units) _____ 3 _____
- C. Humanities _____ 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 I 4 _____
- CHEM 152 General Chemistry II 4 _____
- CHEM 241a Lecture in Organic Chem 1 3 _____
- CHEM 243a Organic Chemistry Lab 1 _____
- CHEM 241b Lecture in Organic Chem 2 3 _____
- CHEM 243b Organic Chemistry Lab 1 _____
- MCB 181R Introductory Biology I 3 _____
- MCB 181L Introductory Biology Lab I 1 _____
- ECOL 182R Introductory Biology II 3 _____
- ECOL 182L Introductory Biology Lab II 1 _____
- PHYS 102 Introductory Physics I 3 _____
- PHYS 181 Introductory Physics Lab I 1 _____
- PHYS 103 Introductory Physics II 3 _____
- PHYS 182 Introductory Physics Lab II 1 _____

ELECTIVES: _____

PHYSIOLOGY MAJOR (30 UNITS MINIMUM)

Required Courses (17 units)

- PSIO 201 Human Anat & Physiol I (F, S, SSI) 4 _____
- PSIO 202 Human Anat & Physiol II (F, S, SSII) 4 _____
- PSIO 303 Integrative Cellular Physiology (F) 3 _____
- PSIO 305 Integrative Systems Physiology (S) 3 _____
- BIOC 384 Foundations in Biochemistry **OR**
- BIOC 385 Metabolic Biochemistry 3 _____

Students must be a declared Physiology major to enroll in PSIO 300 & 400 level courses. "C" grade or higher required for PSIO 201 & 202.

PSIO Elective Courses (13 units)

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

- PSIO 404 Advcd Topics in Cellular Physiol (S) 3 _____
- PSIO 411 Scientific Mthds & Prof Ethics (F, S) 3 _____
- PSIO 420 Exercise & Environ Physiol (F, S) 3 _____
- PSIO 425 Meas & Eval Physiol Function (F, S) 3 _____
- PSIO 426 Extreme Physiology (SSII) 3 _____
- PSIO 427 Metabolism and Disease (F, S) 3 _____
- PSIO 431 Physio of Immune System (F, SSI) 3 _____
- PSIO 450 Respiratory Physiology (S) 3 _____
- PSIO 452 Digestive Physiology (F, S, SSI) 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 Sys (F) 3 _____
- PSIO 484 Cardiovascular/Muscular Biology (S) 3 _____
- PSIO 485 Cardiovascular Physiology (F, S) 3 _____
- PSIO 487 Physiology of Aging (F) 3 _____
- PSIO 489 Current Issues in Physiology (S) 3 _____

Upper Division
Units:

GPA:

***Students may substitute one biological science course (from the list of approved courses) for one PSIO Elective Course.

Optional Courses

***Courses below cannot substitute for above PSIO Elective Courses

- PSIO 295H Intro to Honors Physiology (S) 2 _____
- PSIO 391 Preceptorship (F, S) 1-2 _____
- PSIO 395a PhysioConnects A (S) 2 _____
- PSIO 395b PhysioConnects B (F) 2 _____
- PSIO 399/399H/499/499H Independent Study 1-3 _____
- PSIO 492 Directed Research (F, S) 1-3 _____
- PSIO 495H Senior Honors Thesis Preparation(F) 2 _____
- PSIO 498H Senior Honor Thesis (F, S) 3-6 _____
- PSIO 495K Inflamm/Disease Colloq. (F) 2 _____
- PSIO 495S Sex Matters in Medicine (F) 2 _____

Required: A minimum of 42 units of upper-division credit. The physiology major provides 22 of these upper-division units; the remaining 20 units must be taken ** Tier 2 upper division or as elective courses. Upper division are numbered 300-499. TOTAL units for degree = 120

NOTE: Students are responsible for meeting all requirements for degree.

