**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)
(Stride '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
  - B. Traditions & Cultures (160 a**/b/c/d) (6 units total) 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)
- V PSIO 201 Human Anatomy & Physio 1 (F, S, SSI) 4
- V PSIO 202 Human Anatomy & Physio 2 (F, S, SII) 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

**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) 3
  - PSIO 420 Exercise & Environ Physiology (F, S) 3
  - PSIO 425 Measure & Eval Physio Function (F, S) 3
  - PSIO 426 Extreme Physiology (SSI) 3
  - PSIO 431 Physiology of Immune System (F, S) 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 (F) 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 see note (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 note (F) 2
  - PSIO 498H Senior Honor Thesis see note (F, S) 3-6
  - PSIO 495K Inflammation & Disease/Colloquium (F, S) 2
  - PSIO 495S Sex, Matters & Medicine (F) 2

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.