### UNIVERSITY REQUIREMENTS

**University Composition Requirement**  (3-6 units)
- ✔ ENGL 101 First-Year Composition  3
- ✔ ENGL 102 First-Year Composition*  3
- OR ENGL 109H First-Year Composition Honors*  3

**Mathematics Requirements – 2 courses required**  (6-8 units)
1) **Calculus I**
- ✔ MATH 122a and MATH 122b  1/4
- OR MATH 119A  4
- OR MATH 125  3

2) **Calculus II or Biostatistics**
- MATH 129  3
- OR MATH 263 or BIOS 376 or ECOL 379  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

### PHYSIOLOGY AND MEDICAL SCIENCES MAJOR (36 units total)

**Required Core Courses**  (14 Units)
- *PSIO 201 Human Anatomy & Physio I (F, S, SSI) 4
- *PSIO 202 Human Anatomy & Physio II (F, S, SSI) 4
- PSIO 303 Integrative Cellular Physio (F only) 3
- PSIO 305 Integrative System Physio (S only) 3

*Students must complete PSIO 201 (with a C or better) and PSIO 202 (with a C or better) before being eligible to enroll in any 300 and 400-level PSIO courses*

### PHYSIOLOGY EMPHASIS

**Emphasis Requirements**  (22 units)

Choose **four of the following courses**  (12 units)
- PSIO 101 Tackling Physiological Topics in Today’s Society (F, S) 3
- PSIO 404 Advanced Cellular Physiology (S) 3
- PSIO 411 Scientific Methods and Professional Ethics (F, S) 3
- PSIO 420 Exercise Physiology (F, S) 3
- PSIO 425 Meas. and Eval of Physiological Function (F, S) 3
- PSIO 426 Extreme Physiology (F) 3
- PSIO 431 Physiology of the Immune System (F, S) 3
- PSIO 450 Respiratory Physiology (S) 3
- PSIO 452 Digestive Physiology (F, S) 3
- PSIO 465 Neuropysiology (S) 3
- PSIO 467 Endocrine Physiology (F) 3
- PSIO 469 Reproductive Physiology (S) 3
- PSIO 472 Quantitative Modeling of Biological Systems (F, S) 3
- PSIO 484 Cardiovascular Muscle Biology and Disease (S) 3
- PSIO 485 Cardiovascular Physiology (F, S) 3
- PSIO 487 Physiology of Aging (F) 3
- PSIO 489 Current Topics in Physiology (S) 3
- PSIO 497A Physiology of Mind-Body Interaction (F, S) 3

Choose **additional required elective courses**  (10 units)
Choose any upper-division electives from major elective list (see back for checklist of elective options)

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### 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 102 Introductory Physics I Lecture  3
- PHYS 181 Introductory Physics I Lab  1
- PHYS 103 Introductory Physics II Lecture  3
- PHYS 182 Introductory Physics II Lab  1
- BIOC 384 Foundations in Biochemistry OR BIOC 385 Metabolic Biochemistry  3
- OR ACBS 445 Nutritional PSIO & Metabolic BIOL  3

### Note

- Required: Minimum of 42 units of upper-division credit (all courses numbered 300-499). The major coursework could provide 23 of these units; however, the remaining 19 units are up to the student through Tier 2 courses, optional minor, or general elective courses.
- Note: Required courses may not be taken for Pass/Fail; however, exceptions are: PSIO 391, 399, and 499.
Elective Options

PSIO 295H Introduction to Honors in Physiology (S)
PSIO 391 Preceptorship (F, S)
PSIO 391H Hon Student Preceptorship in Physiology (F, S)
PSIO 395A PhysioConnects A (F, S)
PSIO 395B PhysioConnects B (F, S)
PSIO 399 Independent Study (F, S, SS)
PSIO 399H Honors Independent Study (F, S, SS)
PSIO 404 Advanced Topics in Cellular Physiology (S)
PSIO 411 Scientific Methods and Professional Ethics (F, S)
PSIO 420 Exercise and Environmental Physiology (F, S)
PSIO 425 Meas and Eval of Physiological Function (F, S)
PSIO 426 Extreme Physiology (F)
PSIO 431 Physiology of the Immune System (F, S)
PSIO 450 Respiratory Physiology (S)
PSIO 452 Digestive Physiology (F, S)
PSIO 465 Neurophysiology (S)
PSIO 467 Endocrine Physiology (F)
PSIO 469 Human Reproductive Physiology (S)
PSIO 472 Quantitative Modeling of Biological Systems (F)
PSIO 484 Cardiovascular Muscle Biology and Disease (S)
PSIO 485 Cardiovascular Physiology (F, S)
PSIO 487 Physiology of Aging (F)
PSIO 489 Current Topics in Physiology (S)
PSIO 492 Directed Research (F, S, SS)

PSIO 495H Senior Honors Thesis Preparation (F)
PSIO 495K Inflammation and Disease
PSIO 495M Musculoskeletal Physiology (S)
PSIO 495S Sex Matters in Medicine (F, S)
PSIO 495T Topics in Physiology (Contact department)
PSIO 498H Honors Thesis (F, S, SS)
PSIO 499 Independent Study (F, S, SS)
PSIO 499H Honors Independent Study (F, S, SS)
CMM 401 Human Gross Anatomy (SS)
CMM 410 An Introduction to Pathology (SS)
CMM 465 Fund of Light Microscopy & Electr Imaging (S)
FCM 201 Being a Health Care Professional (S)
IMB 401 Medical Microbiology and Immunology (S)
PATH 415 The Nature of Disease: General Pathology (F)
PATH 416 Diseases of Organ Systems (F)
PHCL 412 Introduction to Pharmacology (F)
PHCL 422 Intro to Toxicology (Contact department)
PHCL 430 Pain/ Neuropharmacology (F)
PHCL 442 Human Performance Pharmacology (F)

Please note: Course offerings are subject to change. Please consult the Schedule of Classes for specific semester course information.