

**Lower Division Department Requirements for the Human Physiology Major:**

University of Oregon Courses	Qtr. Credits	PCC Course Equivalents	Qtr. Credits
BI 211, 212, 213 or 214 General Biology I, II, III or BI 251, 252, 253 Foundations I, II, III	12-15	BI 211, 212, 213 Principles of Biology I, II, III	15
CH 221, 222, 223 General Chemistry I, II, III	12	CH 221, 222, 223 General Chemistry I, II, III	15
MATH 246 Calculus for Biological Sciences or MTH 251 Calculus I	4	MTH 251 Calculus I	4
PHYS 201, 202, 203 General Physics I, II, III	12	PHY 201, 202, 203 General Physics I, II, III	12
PSY 201 Mind and Brain	4	PSY 201 General Psychology	4

**Additional Requirements or Recommendations**

Health Science Pre-Majors:

HPHY majors who are planning careers in medicine should include one year of organic chemistry with laboratory and additional coursework in biochemistry and genetics. Other health science programs may also have these or other prerequisite requirements. Please check with your academic advisor for more information.

HPHY Majors who plan on careers in medicine, physical therapy, or other health science fields should also take one course in Probability and Statistics.

In addition to the departmental requirements listed above, students must also complete coursework for university admission, general education requirements, and BA/BS requirements. Meet with a PCC Academic Advisor to develop an effective transfer plan that will meet your individual needs.

**PCC DEGREE/TRANSFER INFORMATION:**

**Associate of Arts/Oregon Transfer (AAOT) Degree** – The courses listed above may be included in the AAOT degree. Students who complete this degree and are accepted at Oregon public universities will be admitted as having completed all lower division comprehensive and General Education requirements for a baccalaureate degree.

**Associate of Science (AS) Degree** – The courses listed above may be included in the AS degree. The degree does NOT guarantee that students will be accepted as having completed all lower division comprehensive and General Education requirements for a baccalaureate degree. Student should work with an Academic Advisor to plan for transfer to the school and major of their choice.

**Transfer without a PCC Degree** – Students may elect to earn credits and transfer to a four-year institution without earning a PCC degree. Please meet with an Academic Advisor for an individualized plan of study.

*PCC endeavors to create accurate transfer guides for students; however, requirements may change without notice. Students are responsible for working with PCC advisors and their transfer institution to ensure that their academic plan will meet requirements and timelines.*

# Department of Human Physiology

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The Department of Human Physiology offers a program leading to either a bachelor of science (B.S.) or bachelor of arts (B.A.) degree. The study of Human Physiology involves the exploration and understanding of the functional and structural mechanisms that underlie human performance in all of its manifestations from fundamental motor skills to sustained and demanding exercise. The analysis of movement and exercise requires the integration of several sub-disciplines, which are rooted in the fields of biology, chemistry, physics, psychology and sociology. Human performance is influenced by the quality of physiological regulation, sensorimotor control, and tolerance to mechanical and psychological stresses. The areas of study within Human Physiology examine these components which influence movement outcome. The undergraduate curriculum emphasizes depth and breadth of study in these biological, and physical sciences. High school preparation should include a strong liberal arts background of English, mathematics, biology, chemistry, psychology, and sociology. Computer skills are also strongly recommended.

At the undergraduate level, future researchers/teachers, physicians, physical therapists and other health care providers receive comprehensive, multidisciplinary training in the physical, biological, and chemical sciences that prepares them well for entrance into most professional health care-related programs.

In addition to requiring completion of the core science courses, students are challenged to question critically, think logically, and communicate clearly. Human Physiology students also examine the health sciences from a perspective that explores the functional and structural mechanisms underlying human movement across the life span, ranging from simple motor skills to the more complex environment of whole-body exercise. In short, the ever-expanding role of “exercise as medicine” is a critical component of the curriculum, making the department home to a great many students who desire to integrate the study of human movement, physical activity, and even sports with excellent training in the pre-health sciences.

## Transfer Students

Transfer students should work to complete as many of the general education requirements and prerequisites to the HPHY major as possible before attending the U of O. The department would strongly encourage that a transfer student complete the human anatomy and human physiology courses at the University of Oregon. Contact the HPHY Academic Advisor for more information.

## Major Requirements

Human Anatomy I, II + lab (HPHY 321, 323)

Human Physiology I, II + lab (HPHY 322, 324)

Human Physiology III + lab (HPHY 325 beginning fall 2012)

Motor Control (HPHY 333)

Tissue Injury and Healing (HPHY 362)

Physiology of Exercise (HPHY 371)

Biomechanics (HPHY 381)

Elective Courses (minimum of two, 400 level HPHY courses of at least 3 credits)

Prerequisite and major-requirement courses must be taken for letter grades. Students must maintain a 2.0 overall GPA and a 2.0 GPA in courses required for the major.