Contact Information
Department of Cell Biology and Physiology
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The Department of Cell Biology and Physiology in the UNC School of
Medicine was formed in July 2012 through the merger of the Department
of Cell and Developmental Biology and the Department of Cell and
Molecular Physiology. The department offers courses for premedical,
predental, nursing, pharmacy, physical therapy, and allied health
students, as well as students pursuing science majors. However, the
department does not offer a formal program leading to an undergraduate
degree. Students interested in independent research may register for
PHYI 395 for directed readings or laboratory study with a member of
the faculty. The following courses are open to undergraduate students
majoring in the sciences.

Graduate Programs
• M.S. in Cell and Developmental Biology (http://catalog.unc.edu/
  graduate/schools-departments/cell-biology-physiology)
• Ph.D. in Cell and Developmental Biology (http://catalog.unc.edu/
  graduate/schools-departments/cell-biology-physiology)
• M.S. in Cell and Molecular Physiology (http://catalog.unc.edu/
  graduate/schools-departments/cell-biology-physiology)
• Ph.D. in Cell and Molecular Physiology (http://catalog.unc.edu/
  graduate/schools-departments/cell-biology-physiology)

CBIO
Advanced Undergraduate and Graduate-level Courses
CBIO 400. Introduction to Medical Simulation. 3 Credits.
This entry-level medical simulation course focuses on understanding
the integration of simulation technology into clinical education,
patient safety, and research applications to include the teamwork and
communication skills related to these applications.
Grading status: Letter grade.

CBIO 423. Developmental Toxicology and Teratology. 3 Credits.
Emphasizes topics of current research interest relative to the genesis of
environmentally caused and genetically based birth defects. One two-
hour session per week (evening).
Grading status: Letter grade
Same as: TOXC 423.

CBIO 607. Gross Anatomy. 2-4 Credits.
Permission of the instructor. Primarily for graduate students. Enrollment
by availability of space and material.
Grading status: Letter grade.

CBIO 627. Regional Anatomy. 3 Credits.
Permission of the instructor. For students of oral surgery, surgical
residents, and graduate students.
Grading status: Letter grade.

CBIO 643. Cell Structure, Function, and Growth Control I. 3 Credits.
Comprehensive introduction to cell structure, function, and
transformation.
Requisites: Prerequisite, undergraduate cell biology or biochemistry or
permission of the instructor.
Grading status: Letter grade
Same as: BIOC 643, PHCO 643, PHYI 643.

PHYI
Undergraduate-level Courses
PHYI 50. First-Year Seminar: Human Physiology. 3 Credits.
Clinical cases are used to introduce the study of physiology. Students
develop learning objectives and research selected topics in health and
disease. Final class project is a group endeavor.
Gen Ed: PL.
Grading status: Letter grade.

PHYI 292. Introduction to Physiology. 5 Credits.
A course in human physiology exploring physiological processes
from molecular to organ systems levels including regulation and
interrelationships. Five lecture hours a week.
Requisites: Prerequisites, CHEM 101 and 102 (or BIOC 107 and 108) and
BIOL 252.
Grading status: Letter grade.

PHYI 395. Undergraduate Research in Physiology. 1-6 Credits.
Permission of the instructor. Directed readings or laboratory study on a
selected topic. Final written report required in each term. At least three
hours of independent work per week for each unit of credit.
Requisites: Prerequisites, BIOL 101/101L and CHEM 101/101L.
Grading status: Letter grade.

Advanced Undergraduate and Graduate-level Courses
PHYI 643. Cell Structure, Function, and Growth Control I. 3 Credits.
Comprehensive introduction to cell structure, function, and
transformation.
Requisites: Prerequisite, undergraduate cell biology or biochemistry or
permission of the instructor.
Grading status: Letter grade
Same as: CBIO 643, BIOC 643, PHCO 643.