DEPARTMENT OF CELL BIOLOGY AND PHYSIOLOGY

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.

Graduate Programs

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

Courses

The following courses are open to undergraduate students majoring in the sciences.

CBIO–Cell and Development Biology

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.

Rules & Requirements
Gradning 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).

Rules & Requirements
Gradning 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.

Rules & Requirements
Gradning Status: Letter grade.

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

Rules & Requirements
Gradning Status: Letter grade.

CBIO 643. Cell Structure, Function, and Growth Control I. 3 Credits.
Comprehensive introduction to cell structure, function, and transformation.

Rules & Requirements
Requisites: Prerequisite, undergraduate cell biology or biochemistry or permission of the instructor.
Gradning Status: Letter grade.
Same as: BIOC 643, PHCO 643, PHYI 643.

PHYI–Physiology

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.

Rules & Requirements
IDEAs in Action Gen Ed: FY-SEMINAR.
Making Connections Gen Ed: PL.
Gradning 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.

Rules & Requirements
Requisites: Prerequisites, BIOL 101/101L and CHEM 101/101L.
Gradning 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.

Rules & Requirements
Requisites: Prerequisite, undergraduate cell biology or biochemistry or permission of the instructor.
Gradning Status: Letter grade.
Same as: CBIO 643, BIOC 643, PHCO 643.

Contact Information

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Chair
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