Graduate Curriculum

Each student must demonstrate proficiency in the four core areas of Endocrinology, Physiology, Molecular Biology and Biochemistry, and Statistics and Experimental Design. To establish proficiency in each area, students can select courses offered by the EAB Graduate Program and other programs at Rutgers. Students should consult with their advisor prior to selecting courses each semester. Consult the current University Schedule of Classes for course availability (http://sis.rutgers.edu/soc).

Students must maintain a grade point average of B or better. A maximum of two courses with grades of C can be counted toward the degree.

A. Core-Area Courses

I. Endocrinology

11:067:450 Endocrinology (4) Zama
16:340:510 Neuroendocrinology (3) Sarkar (Fall, even years)
16:340:612 Recent Advances in Endocrinology (2) (Next offering to be determined)
16:137:520 Exercise Endocrinology (3)

II. Physiology

16:340:508 Equine Exercise Physiology (3) McKeever (Spring)
16:340:591 Reproductive and Developmental Toxicology (4) Roepke (Fall, odd years)

III. Molecular Biology and Biochemistry

11:067:492 Molecular and Cellular Physiology (3) Belden (Spring)
16:115:503,504 General Biochemistry (4,4)
16:115:511,512 Molecular Biology and Biochemistry (3,3)

IV. Statistics and Experimental Design

01:960:401 Basic Statistics for Research (3) (recommended if you did not have stats as an UG)
16:115:557 Statistics in Biomedical Science (3) (Fall)
16:125:578 Interdisciplinary Biostatistics Research Training for Molecular and Cellular Sciences: Enhancing Rigor and Reproducibility (3) (Spring)
16:960:501 Statistical Theory for Research Workers (3) (Spring)
16:960:590 Design of Experiments (3)

PHCO 0504 Introduction to Biostatistics (3) (offered through the Rutgers Biomedical and Health Sciences School of Public Health; special registration may be required)
Additional Courses of Interest

01:146:474 *Immunology* (3)
16:681:502 *Molecular Genetics* (3)
16:681:585 *Cancer Molecular Biology* (3)
16:709:506 *Nutritional Aspects of Disease* (3)
16:963:603 *Advanced Problems in Toxicology* (1) Fall
16:963:631 *Toxicological Pathology* (3) Spring

B. Other Requirements

**Seminar** – 16:340:693,694 *Seminar in Endocrinology and Animal Biosciences* (1) Pass/Fail

All EAB graduate students are required to attend this weekly seminar, which is held on Fridays at 9:15 AM in Foran-138A. Students should register once for fall (693) and once for spring (694) during the first 2-3 years of their program.

**Ethics Course** – 16:115:556 *Ethical Scientific Conduct* (1) (Spring)

Required for all students joining the graduate program starting Fall 2018 and for students competing for federal fellowship and training programs

*Updated August 2018*