

Physiology

The Physiology Graduate Program is an interdisciplinary and interdepartmental program comprising faculty drawn from across the University. An advanced degree in Physiology is highly valued by the scientific community and can lead to careers in research and teaching in academia, industry and government laboratories, public policy and consulting. Research is carried out using a variety of model organisms, laboratory and companion and agriculturally important species.

Admission Requirements

Students entering the graduate program in Physiology should have a Bachelor's degree in a related biological or physical science. Undergraduate courses should include Physiology, Biochemistry, Organic Chemistry, Calculus, and Physics. Each application package will be screened by the Admissions Committee. Factors considered for admission include: grade point average (3.0 is required for regular admission), GRE scores, undergraduate courses, letters of recommendation, and the willingness of a member of the Graduate Physiology faculty to serve as the applicant's advisor.

Master's Degree Requirements

All Master's students are required to complete PHY 503, PHY 504, BCH 553, and a one-credit hour course in research ethics. Master of Science Degree: For a Master of Science degree a minimum of 30 semester hours of graduate work in the degree program is required including a minimum of 20 hours of course work at the 500-800 level. On average, the M.S. degree takes two to three years to complete. Master of Physiology Degree: The non-thesis Master's degree (Master of Physiology) requires a total of 36 credits. The median time to degree completion is 1.75 years or less.

Student Financial Support

Financial assistance for qualified students in the form of research assistantships, fellowships and traineeships is available through participating departments only and not through the Physiology program for thesis-based students only.

Other Relevant Information

Graduate students enrolled as Physiology majors are housed in the department of their major professor and may participate in departmental activities.

Recommended Courses Normally Included in Programs of Study for the M.S Degree and the Non-Thesis MOP Program

Other recommended/supporting courses are available through many departments, e.g. Animal Science, Biochemistry, Biomathematics, Biotechnology, Cell Biology, Comparative Biomedical Sciences, Entomology, Genetics, Immunology, Microbiology, Nutrition, Pharmacology, Poultry Science, Psychology, Statistics, and Toxicology, and may be included for consideration in the plan of work.

Degrees

- Physiology (MR) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-mr/>)
- Physiology (MS) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-ms/>)
- Physiology (Minor) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-minor/>)

Faculty

Full Professors

Glen William Almond

Kenneth E. Anderson

Christopher M. Ashwell

Betty L. Black

Anthony T. Bliklager

Russell J. Borski

Patricia Ann Curtis

David C. Dorman

Frank W. Edens

Kenneth L. Esbenshade

Charlotte E. Farin

William Lucas Flowers IV

John E. Gadsby

Troy Ghashghaei

Jody L. Gookin

Sung Woo Kim

Matthew D. Koci

Hsiao-Ching Liu

Christian Maltecca

Kathryn Montgome Meurs

Paul Edward Mozdziaik

Jack Odle

Heather Patisaul

James N. Petitte

Robert M. Petters

Shannon Elizabeth Phillips

Richard M. Roe

Paul David Siciliano

Geoffrey W. Smith

Jeffrey A. Yoder

Associate Professors

Luke B. Borst

Babetta Ann Breuhaus

Jose Manuel Bruno-Barcena

John Edward Meitzen

Marianne Niedzlek-Feaver

Marcelo Rodriguez-Puebla

Practice/Research/Teaching Professors

Elaine B. Bohorquez

Hanna Gracz

Jane L. Lubischer

Shweta Trivedi

Emeritus Faculty

Talmage T. Brown Jr.

Warren J. Croom Jr.

Robert M. Grossfeld

Harold F. Heatwole

Thomas E. Levere

John F. Roberts

Malcolm C. Roberts

Thomas David Siopes

Herbert A. Underwood

Steven Paul Washburn

Michael David Whitacre

Thomas G. Wolcott