

# Biology

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The guiding principle of the Biology Graduate Program is that by integrating training across multiple disciplines, we can gain deeper insights into challenging problems such as how life functions and adapts to changing physical and social environments. Our goal is to prepare our graduate students to be world-class scientists and leaders, unafraid of tackling the most significant scientific challenges of our era.

Areas of study include: cell biology, physiology, ecology, evolution, behavior, and fisheries, wildlife and conservation biology. Specializations within these areas include developmental biology, neurobiology, genomics, invertebrate biology, animal reproduction, biorhythms, behavioral ecology, community ecology, population ecology, conservation biology, fisheries ecology, wildlife field studies, aquaculture and others.

**Degrees earned will be distributed as: "Master of Biology", "Master of Science", and "Doctor of Philosophy" without area of study, specialization, or track specifications.**

## Master's Degree Requirements

AEC 502 and PHI 816 (or equivalent) are required. No more than six hours of temporary courses (AEC 624, BIO 624, INB 624, BIO 824) or two hours of departmental seminar can be included in the 30-hour requirement for the M.S. Six hours of research credits (INB 695) resulting in a thesis are required. A minor (usually 9-10 hours) is optional. Other requirements may be imposed by the advisor.

## Doctoral Degree Requirements

AEC 502 and PHI 816 (or equivalent) are required. A student's advisory committee recommends appropriate courses which will provide a strong foundation in the student's area of interest. A minimum of 10 hours of research (INB 895) leading to a dissertation is required. A minor (usually 9-10 hours) is optional. Other requirements may be imposed by the advisor.

## Student Financial Support

Graduate teaching and research assistantships are available to well-qualified M.R., M.S. and Ph.D. students.

## Other Relevant Information

Excellent research facilities, equipment and computers are available. Off-campus research is conducted at the Pamlico Aquaculture Field Laboratory, research and extension centers in Eastern and Western North Carolina, the Center for Marine Science and Technology in Morehead City, and at facilities of state and federal agencies and private organizations. Field work can be conducted at nearby natural areas and laboratory work at various state and federal laboratories associated with the department, nationally, and internationally.

Biology Program Website (<https://biologygraduateprogram.wordpress.ncsu.edu/>)

## Admission Requirements

It is important that you identify a potential faculty adviser, as this will greatly increase your chance of admission to NCSU's Biology Graduate Program. Although all applications are made available to faculty advisers for review, a graduate student will not be admitted to

the Biology Program for graduate studies unless the prospective student has identified a faculty adviser. Once a faculty adviser has requested review of a prospective student, the application is then evaluated with regard to the applicant's potential for success in graduate school. The admissions process involves consideration of the ability of our program to accommodate students.

Successful applicants usually have a Bachelor's degree in Biological Sciences or a related field with at least an overall B average and a minimum number of courses in biology (and related fields) and supporting fields (6 in biology, 4 in chemistry, 2 in physics, and 2 in mathematics). In addition to the applicant's grades and coursework, we consider relevant experience (e.g., through internships, research experiences, volunteer or paid work, and publications), statement of interest, and letters of recommendation. GRE scores are not required. We expect applicants for the MS degree to have at least a 3.0 GPA, and applicants for the PhD degree to have at least a 3.2 GPA. Research experience is highly recommended.

## Applicant Information

- **Delivery Method:** On-Campus
- **Entrance Exam:**
- **Interview Required:** None

## Application Deadlines

To guarantee consideration for funding, applications should be complete by the following dates: for Fall Semester admission both U.S. and international applicants should have their application materials completed by January 15; for Spring Semester the deadline is October 15 for U.S. applicants and international applicants. Please note that it typically requires four to six weeks from the date of your request until transcripts and letters of recommendation reach us. Applications received after the dates listed above will still be considered until the Graduate School deadlines (June 25 and November 25 for U.S. applicants, March 1 and July 15 for international applicants); however, opportunities for funding may be limited (note that the Biology Graduate Program does not accept M.S. and Ph.D. students without support).

## Degrees

- Biology (MR) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biology/biology-mr/>)
- Biology (MS) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biology/biology-ms/>)
- Biology (PhD) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biology/biology-phd/>)
- Biology (PhD) (<http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biology/biology-phd/>)

David Derek Aday

Betty L. Black

Russell J. Borski

David Buchwalter

Jeffrey A. Buckel

Ignazio Carbone

Jaime A. Collazo

William Gregory Cope

Harry Valentine Daniels III

Robert R. Dunn

David B. Eggleston

John R. Godwin

Kevin Gross

Craig A. Harms

Jeffrey M. Hinshaw

Rebecca Elizabeth Irwin

Thomas J. Kwak

Thomas M. Losordo

Carolyn Jane Mattingly

Heather B. Patisaul

Luis Alonso Ramirez-Ulate

Ann Helen Ross

Mary Higby Schweitzer

David R. Tarpy

Scott M. Belcher

Shobhan Gaddameedhi

Adam Hartstone-Rose

Randall Brian Langerhans

John Edward Meitzen

Nanette M. Nascone-Yoder

Marianne Niedzlek-Feaver

Antonio Planchart

Reade Bruce Roberts

Jie Cao

Khara Deanne Grieger

Nathan James Hostetter

Kurt Marsden

Jamian Krishna Pacifici

Seema Nayan Sheth

Caitlin Suzanne Smukowski Heil

Joy Little Snowden

Bradley William Taylor

Christopher Scott Walker

Elsa Youngsteadt

Jennifer L. Campbell

Louis Broaddus Daniel III

Miles Dean Engell

Miriam G. Ferzli

Jesse Robert Fischer

Terry Allen Gates

William Miller Johnstone III

Jane L. Lubischer

Erin Alison McKenney

Lisa M. Paciulli

Lisa D. Parks

Martha Burford Reiskind

Damian Shea

Adrian Alan Smith

Lindsay E. Zanno

Peter T. Bromley

Billy J. Copeland

Frederick T. Corbin

Phillip D. Doerr

William C. Grant

Robert M. Grossfeld

Thurman L. Grove

Harold F. Heatwole

Joseph E. Hightower

Richard A. Lancia

Richard L. Noble

Kenneth H. Pollock

James Alan Rice Jr.

John F. Roberts

Damian Shea

Theodore R. Simons

Herbert A. Underwood

John G. Vandenberg

Thomas G. Wolcott

Robert R. Anholt

Tyler Ray Black

Arthur E. Bogan

Heather Evans

John G. Boreman Jr.

David T. Cobb

Louis Broaddus Daniel III

Mitchell J. Eaton

John Jeffrey Govoni

Nicholas M. Haddad

Andrew Bittinger Heckert

Ryan J. Heise

Corinne J. Kendall

Reid W. Laney

Trudy F. MacKay

Alexa J. McKerrow

Gerard McMahon

James Adiel Morris Jr.

Jennifer R Runkle

Megan Elizabeth Serr

Rowland M. Shelley

Kyle W. Shertzer

Adrian Alan Smith

Seth Patrick Stapleton

Bryan Lynn Stuart

Adam J. Terando

## Adjunct Professors

Christian Farrell Kammerer

Candice Small

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## Teaching Associate Professor

Jennifer Landin

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## Adjunct Associate Professor

Guohong Cui

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## Assistant Professors

Christa Baker

Carter K. Clinton

Natalia Dugue-Wilckens

Corey Dunn

Maria L. Rodgers

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