Department of Entomology and Plant Pathology

Entomology

Undergraduate instruction in entomology provides introductory and advanced courses in the basic science of entomology and the management of beneficial and pest insects. Courses at the 200- and 400-level fulfill General Education Requirements in Natural Sciences or Science and Technology and serve students majoring in biological sciences, agronomy, horticultural science, agricultural education, crop science, forestry and plant biology. They also provide fundamental training for graduate study in entomology (see the Graduate Catalog (http://catalog.ncsu.edu/graduate/)).

Opportunities

For graduates with advanced degrees in entomology, opportunities include research, teaching, and extension positions in colleges and universities; research, development, production, control, and sales positions in private industries; consultative positions in pest management; research and regulatory positions with state and federal agencies; and curatorial positions in museums.

Curricula

There is no undergraduate major in entomology. Those students with a primary interest in entomology are advised to choose a general biological science curriculum and minor in entomology.

Plant Pathology

Plant Pathology is a diverse discipline that provides fundamentally important information to many of the undergraduate degree programs offered in CALS at NC State. Undergraduate instruction in plant pathology provides introductory and advanced courses on the biology of plant pathogens and the nature and control of plant diseases to students majoring in crop science, horticultural science, the life sciences, and forestry. It also provides the fundamental training necessary for graduate study in plant pathology and related fields.

Kelman Scholars

Thanks to the generosity of Dr. Arthur and Mrs. Helen Kelman, family and friends, the department offers the S.E. Kelman Memorial Scholarship to one or more outstanding undergraduates enrolled at NC State or other universities. This competitive program allows selected applicants to gain research experiences as interns working under the supervision of a faculty member in the Department of Plant Pathology. For details about this scholarship program, please see scholarship’s information page (https://cals.ncsu.edu/entomology-and-plant-pathology/plant-pests-pathogens-people-certificate/).

Opportunities

As a graduate department, our graduates, with advanced degrees in plant pathology, are competitive for employment in many areas. Employment opportunities at the M.S. and Ph.D. levels include research, extension, teaching and regulatory sciences with universities and colleges, the U.S. Department of Agriculture, including APHIS and CPHIST, a wide array of agriculturally related industry, and private consulting. The rapid development of biotechnology, regulatory sciences, agricultural chemicals and biocontrol offers numerous opportunities for exciting and rewarding careers that service societal needs and advance our sciences.

Curricula

There is no undergraduate major or minor in plant pathology. We co-direct with the Department of Entomology a certificate in Plant Pests, Pathogens, and People (https://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/entomology-plant-pathology/plant-pests-pathogens-people-certificate/), which offers a course of study in the biology, ecology, economic significance, and management of plant diseases and insects. This program may be completed on-campus or totally online.

For more information about this department, including contact information, visit the department (https://cals.ncsu.edu/entomology-and-plant-pathology/) website.

Faculty

Department Head
Carolyn Young

Associate Department Head
Steve Frank

Director of Undergraduate Programs
Terri Billeisen

Director of Graduate Programs for Entomology
Michael Reiskind

Director of Graduate Programs for Plant Pathology
Dorith Rotenberg

Department Extension Leader
Jim Kerns

Professors of Distinction

Ralph Dean, William Neal Reynolds Distinguished Professor
Fred Gould, William Neal Reynolds Distinguished Professor
Professors
Ignazio Carbone
Marc Cubeta
Ralph Dean
Steve Frank
Fred Gould
Shujin Hu
George Kennedy
Jim Kerns
Marce Lorenzen
Peter Ojiambo
Charles Opperman
Lina Quesada
Dominic Reisig
Michael Reiskind
Jean Ristaino
David Ritchie
Michael Roe
Dorith Rotenberg
Coby Schal
Max Scott
Clyde Sorenson
James Walgenbach
Anna Whitfield
Brian Wiegmann

Carolyn Young

Associate Professors
David Orr
Anders Huseth
David Rasmussen

Assistant Professors
Daisy Ahumada
Michael Bradshaw
Adrienne Gorny
Alejandra Huerta
LeAnn Lux
Aram Mikaelyan
Gareth Powell
Sara Villani

Assistant Extension Professors
Lorena Lopez

Research Professor
Allen Cohen

Extension Associates
Matt Bertone
Terri Billeisen
William Cline
Inga Meadows
Liz Driscoll

Principal Research Scholars
Tika Adhikari
Ayako Katsumata
Logu Ponnusamy
Tim Sit
Senior Research Scholars

Jennie Fagen
Yeonyee Oh

USDA

Peter Balint-Kurti
Christina Cowger

Plans

- Entomology (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/entomology-plant-pathology/entomology-minor/)