Crop Science

The Graduate Program in Crop Science revolves around our vision of being a world leader in Crop Science education and in the generation and application of knowledge required for economically and environmentally sustainable crop systems and products, as well as in developing land management strategies that protect the quality of North Carolina’s soil, water and air resources.

Our mission within the Graduate program is to develop future leaders in Crop Science with a focus on improving crop plants and products, devising effective and sustainable crop production systems and effective and sustainable management techniques in both agricultural and urban settings; and dissemination of crop science knowledge for the benefit of users and producers of food, feed, turf, biofuels and fiber in North Carolina, the nation and the world.

The specific program areas in which Graduate education focuses are crop management and physiology, plant breeding and genetics, weed science, alternative crops and pesticide fate and impact on the environment.

Entrance requirements for the Graduate program in Crop Science follow the NC State Graduate School guidelines. A minimum of a 3.0 GPA at the Baccalaureate or master’s level is required, although exceptions may be made for master’s applicants with a very strong GPA in science classes and/or their final two years, or with substantial post-baccalaureate work experience. Students accepted will typically have a bachelor’s or master’s degree in crop science, or closely related fields, with strong preparation in the biological and physical sciences. The Graduate Record Examination is also required but there is no minimum score on any of the sections.

Financial assistance in the form of a Graduate Assistantship is available for most of the students accepted into the program. However, funding is limited and positions are highly competitive within a major professor’s program area. It is recommended that applicants review the department’s faculty listing and communicate directly with faculty members who have similar interest to theirs.

Degrees

- Crop Science (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/crop-science/crop-science-mr/)
- Crop Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/crop-science/crop-science-ms/)
- Crop Science (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/crop-science/crop-science-phd/)
- Crop Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/crop-science/crop-science-minor/)

Faculty

Full Professors

Gina Brown-Guedira
Kent O. Burkey
Thomas E. Carter
Miguel S. Castillo
Guy D. Collins
Richard J. Cooper
Ralph E. Dewey
Keith L. Edmisten
Loren Ray Fisher
Major M. Goodman
Candace H. Haigler
Ronnie W. Heiniger
James B. Holland
David L. Jordan
Vasu Kuraparthi
Ramsey S. Lewis
David P. Livingston III
David S. Marshall
Rouf M. Mian
Grady L. Miller
J. Paul Murphy
Robert P. Patterson
Charles H. Peacock
S. Christopher Reberg-Horton
Robert J. Richardson
Thomas W. Rufty Jr.
Michelle S. Schroeder-Moreno
Randy Wells
Fred H. Yelverton

Associate Professors

Wesley J. Everman
Travis W. Gannon
Ramon Gonzalo Leon Gonzalez
Matthew D. Krakowsky
Susana R. Milla-Lewis
Lori J. Unruh Snyder

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**Assistant Professors**

Charles W. Cahoon  
Jeffrey C. Dunne  
Amanda M. Hulse-Kemp  
Anna Locke  
Angela R. Post  
David H. Suchoff  
Earl Taliercio  
Matthew C. Vann  
Rachel A. Vann

**Emeritus Faculty**

Daniel C. Bowman  
Daryl T. Bowman  
Arthur H. Bruneau  
Joseph W. Burton  
Harold D. Coble  
William K. Collins  
Will A. Cope  
Frederick T. Corbin  
David A. Danehower  
James T. Green, Jr.  
Harry D. Gross  
Robert D. Keys  
H. Michael Linker  
Raymond C. Long  
Jean-Marie Luginbuhl  
Gail G. McRae  
J. Paul Mueller  
Gerald F. Peedin  
Rongda Qu  
W. David Smith  
Janet F. Spears  
Harold T. Stalker, Jr.  
Gene A. Sullivan  
Donald L. Thompson

**Adjunct Professors**

Thomas R. Sinclair