

# Department of Horticultural Science

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Horticulture is a dynamic segment of agriculture. The development, growth, distribution, and utilization of fruits, vegetables, flowers, and ornamental plants, plus the art and science of landscape designing enrich our lives with nutritious foods and more attractive surroundings. North Carolina's varied climatic conditions favor the production of a wide variety of horticultural crops on a commercial scale, as well as numerous beautiful parks, gardens, and arboreta. The growing interest in local foods and home gardening has created a demand for more information about fruits and vegetable production and new crop varieties adapted to North Carolina's environments. Urban population growth fuels a need for ornamental plants and a thriving nursery industry. Designers skilled in residential and commercial landscaping, interior plantscaping, and plant maintenance are in high demand. The growth in demand for horticultural information by the consumer, schools, and state and county government continues to increase.

Undergraduate programs in horticultural science offer a broad based education in physical and biological sciences and a sound production background. Students can concentrate in areas of fruit and vegetable science, floriculture, woody ornamental plant science, landscape design, or pursue a general approach encompassing all the specialties. They are prepared for graduate study or for diverse professional service.

For more information about this department, including contact information, visit the department (<https://cals.ncsu.edu/horticultural-science/>) website.

## Contact

### Department of Horticultural Science

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### Frank Louws

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## Faculty

### Department Head

Frank Louws

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### Undergraduate Coordinator

Helen T. Kraus

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### Director of Graduate Programs

Gina Fernandez

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### Department Extension Leader

Mark Hoffmann

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### Director, JC Raulston Arboretum

Mark Weathington

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### William Neal Reynolds Distinguished Professor

T.C. Wehner

C. Yencho

Z. Zeng

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### JC Raulston Distinguished Professor

T. Ranney

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### Professors

R. Bonanno

W.G. Buhler

J. Dole

G.E. Fernandez

C.A. Iglesias

B. Jackson

J.C. Neal

P. Perkins-Veazie

T.G. Ranney

J.R. Schultheis

J. Sherk

T.C. Wehner

B.E. Whipker

C. Yencho

S. Zeng

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### Associate Professors

H. Ashrafi

D. Carley

J.M. Davis  
B.A. Fair  
R. Hernandez  
M. Iorizzo  
K. Jennings  
H.T. Kraus  
A.V. LeBude  
D.R. Panthee  
M.L. Parker

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## Assistant Professors

H. Chen  
M. Hoffmann  
M. Knuth  
T.M. Kon  
T. Kon  
W. Liu

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## Lecturers

E.M. Meyer  
J. Songer

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## Researcher

M.E. Clough  
K.V. Pecota  
R. Shekasteband

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## Research Associate

A. Nus  
J. Spencer  
K. Starke  
R. Welker  
J. Zhang

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## Research Assistant Professor

M. Mollinari  
B.A. Olukolu

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## Extension Associate

M. Clough  
W.E. Mitchem  
E. Rogers  
C. Simmons

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## Adjunct Assistant Professors

G. Gusmini  
C.E. Niedziela

## Plans

- Agroecology & Sustainable Food Systems (BS): Urban Horticulture Concentration (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/agroecology-sustainable-food-systems-bs-urban-horticulture-concentration/>)
- Horticultural Science (BS): Landscape Design, Gardens & Urban Environments Concentration (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticultural-science-bs-landscape-design-gardens-urban-environments-concentration/>)
- Horticultural Science (BS): Plant Breeding and Biotechnology in Horticulture Concentration (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticultural-science-bs-plant-breeding-biotechnology-horticulture-concentration/>)
- Horticultural Science (BS): Production Systems and Entrepreneurship in Horticulture Concentration (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticultural-science-bs-production-systems-entrepreneurship-horticulture-concentration/>)
- Horticultural Science (Minor) (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticultural-science-minor/>)
- Horticulture (Undergraduate Certificate) (<http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticulture-undergraduate-certificate/>)