

HORTICULTURE & AGRONOMY, DOCTOR OF PHILOSOPHY

College of Agricultural & Environmental Sciences

Graduate Study

The Graduate Group in Horticulture & Agronomy offers programs of study leading to M.S. and Ph.D. degrees for students interested in the science and management of agricultural crops, including their ecology, physiology, genetics, and post-harvest management, as well as the interaction of agricultural crops with the environment. In the Ph.D. program, students focus on one of five areas of emphasis: agroecology, crop improvement/plant breeding, crop production systems, plant physiology, and post-harvest biology/physiology. Research may be conducted within these areas with an applied or basic focus, but in association with a cropping system such as agronomy, environmental horticulture, pomology, vegetable crops, viticulture and weed science.

Preparation

For both M.S. and Ph.D. programs, a level of competence equivalent to that of a sound undergraduate program in Plant Science is required. This includes coursework in general biology, chemistry, organic chemistry, physics, statistics, genetics, plant physiology, and soil science. A few limited deficiencies in any of these areas can be made up after admission to the graduate program. Specific requirements are outlined in detail on the group's website. The graduate advisor, the major professor, and the student will design a program of advanced courses to meet individual academic needs within one of the specializations.

Degree Requirements & Program Coordinator

See Horticulture & Agronomy (<https://grad.ucdavis.edu/programs/ghag/>).