PLANT SCIENCE: BIOINFORMATICS (PH.D.)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)
Degree: Doctor of Philosophy

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PLNT 701	Doctoral Comprehensive Examination.[1]	0

[1] Must be taken within one year of registering.

Complementary Courses (6 credits)

Two courses to be chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 511	Bioinformatics for Genomics.	3
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
COMP 618	Bioinformatics: Functional Genomics.	3
PHGY 603	Systems Biology and Biophysics.	3

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's advisory committee.