

SPRING 2026 COURSES PLANT BREEDING GRADUATE PROGRAM (PBGP)

- The **PBGP Core and Elective Courses** are listed in the [Graduate Catalog](#) and [PBGP website](#).
 - The list of elective courses is **NOT** exhaustive. Students may register for any UF graduate course, provided they have the approval of their advisor and supervisory committee.
 - Students are advised to check [ONE.UF](#) for any course updates.
- **Registration reminders:**
 - **Departmentally controlled** courses require permission to register. Students should request enrollment by contacting either the professor/instructor offering the course or the registration staff in that department.
 - **REC Students:** You must always request registration with the liaison in the department offering the class to ensure you will be indeed placed in the 'off-campus/REC' section. Usually, the class number shown in ONE.UF is for Gainesville students only.
 - A list of **UF Department Registration Contacts** is at the end of this document.
 - Eliana can register you for any Horticultural Sciences, Plant Breeding, and PMCB departmentally controlled courses. To register for courses offered by other departments, students must contact the liaison in that department directly.

CORE COURSES

AGR 5321C Genetic Improvement of Plants

Spring 2023 syllabus: <https://agronomy.ifas.ufl.edu/graduate/graduate-courses/>

Instructors: Ali Babar mababar@ufl.edu, Fredy Altpeter altpeter@ufl.edu

Prerequisite: AGR 3303

Registration: Offered annually; departmentally controlled by Agronomy, complete form at https://ufl.qualtrics.com/jfe/form/SV_8kPXSXdX1zR5ae.

AGR 6325L Plant Breeding Techniques *(will be offered only in Spring 2027)*

Spring 2025 syllabus: <https://agronomy.ifas.ufl.edu/graduate/graduate-courses/>

Instructor: Kevin Kenworthy kenworth@ufl.edu

Prerequisite: AGR 3303 or equivalent; Co-requisite: AGR 6322

Registration: Offered spring semester of odd years, departmentally controlled by Agronomy.

HOS 6932 Survey of Breeding Tools & Methods

Spring 2025 syllabus: <https://hos.ifas.ufl.edu/graduate/course-list/>

Instructors: Patricio Muñoz p.munoz@ufl.edu, Felipe Ferrão lferrao@ufl.edu (coords)

Registration: Offered annually by Horticultural Sciences; **Gainesville students:** self-register; **REC students:** email elianak@ufl.edu

STA 6093 Introduction to Applied Statistics for Agricultural and Life Sciences

Fall 2025 syllabus: <https://cals.ufl.edu/syllabuses/als-courses/>

Instructors: Denis Valle drvalle@ufl.edu, Ben Baiser bbaiser@ufl.edu

Registration: **Gainesville/On-campus students** self-register; **REC students** complete the form at https://ufl.qualtrics.com/jfe/form/SV_9GiXOIByE1Lvccm. For issues contact fogs-academics@ifas.ufl.edu.

JOURNAL COLLOQUIUM

A Journal Colloquium topic is defined as any 1-credit course that focuses on an in-depth discussion of any research topic, methods, or literature offered by any UF department. It may include one 1-credit seminar preparation or similar course offered by faculty in any of the four PBGP core departments (Horticultural Sciences, Environmental Horticulture, Agronomy, or School of Forest, Fisheries & Geomatics Sciences).

Note: *Department seminar series courses with weekly guest lecturers do not count toward the Journal Colloquium requirement.*

HOS 6932 Case Studies in Plant Breeding

Dr. José Chaparro

1 credit, hybrid, synchronous course

Registration with Eliana elianak@ufl.edu or Curtis curtisr@ufl.edu

PCB 7922 Single-Cell Genomics, Beyond Transcriptomics

Dr. Wendell Pereira

1 credit, hybrid, synchronous course

Registration with Eliana elianak@ufl.edu or Curtis curtisr@ufl.edu

HOS 6932 Concepts of AI for Plant Scientists

Dr. Charlie Messina

2 credits, synchronous, hybrid

Registration with Eliana elianak@ufl.edu or Curtis curtisr@ufl.edu

MCB 7922 Gene Editing using CRISPR/cas9

Drs. Wilfred Vermerris and Kevin Begcy

1 credit, hybrid, synchronous course

Registration with Jacqueline Lee jlee9@ufl.edu

PCB 7922 Control of the Detrimental Effects of the Plant Immune System

Dr. Wen-Yuan Song

1 credit, hybrid, synchronous course

Registration with Eliana elianak@ufl.edu or Curtis curtisr@ufl.edu

ELECTIVE COURSES

Elective courses are listed in the [Graduate Catalog](#) and [PBGP website](#). However, students may register for any UF course as their electives, provided they have the approval of their advisor and supervisory committee.

Below is information on some elective courses.

AGR 7306 Multi-Omic Integration for Applied Prediction Breeding

Instructor: Diego Jarquin, jhernandezjarqui@ufl.edu

Registration: Lorraine White, whitelm@ufl.edu, complete form at https://ufl.qualtrics.com/jfe/form/SV_8kPXSKxdX1zR5ae.

HOS 5242 Genetic and Breeding of Vegetable Crops

Spring 2025 syllabus: <https://hos.ifas.ufl.edu/graduate/course-list/>

Prerequisite: AGR 3303 or equivalent.

Instructor: Bala Rathinasabapathi brath@ufl.edu

Registration: Offered odd years by Horticultural Sciences; **Gainesville students:** self-register on ONE.UF; **REC students:** email Eliana Kampf elianak@ufl.edu

GMS 6231 Genomics and Bioinformatics

Prerequisite: STA 6166 and PCB 5065 or consent of instructor.

Instructors: Matias Kirst mkirst@ufl.edu, Kelly Balmant balmant@ufl.edu, Wendell Pereira wendellpereira@ufl.edu

Registration: Departmentally controlled by Medicine-Molecular Genetics & Microbiology, contact instructors for permission to enroll and for registration information.

AGR 6305 Plant Chromosomes and Genomes

Instructors: Jianping Wang wangjp@ufl.edu

Registration: Offered only in spring of even years, departmentally controlled by Agronomy, complete form at https://ufl.qualtrics.com/jfe/form/SV_8kPXSXdX1zR5ae.

THE LINKS BELOW WILL SHOW ALL THE COURSES OFFERED BY THESE UF DEPARTMENTS:

- Agronomy: <https://agronomy.ifas.ufl.edu/graduate/graduate-courses/>
- Horticultural Sciences: <https://hos.ifas.ufl.edu/graduate/course-list/>
- Environmental Horticulture: <https://hort.ifas.ufl.edu/course-list/>
- Agricultural and Biological Engineering: <https://abe.ufl.edu/graduate/courses/>
- Summary of UF Statistical courses for 2025-2026: https://ufstatscourses.shinyapps.io/shiny_tutorial/

REGISTRATION CONTACTS IN OTHER UF DEPARTMENTS

AGRONOMY

To register for Agronomy courses, fill out the form at https://ufl.qualtrics.com/jfe/form/SV_8kPXSXdX1zR5ae.

Lorraine White, whitelm@ufl.edu

AGRICULTURAL AND BIOLOGICAL ENGINEERING

Daphane Flournoy, dfLOURNOY@ufl.edu

AGRICULTURE COMMUNICATION AND EDUCATION

Becky Cook, rtrammell@ufl.edu

ENTOMOLOGY AND NEMATOLOGY

Elena Alyanaya, ealyanaya@ufl.edu

Feenix Hartell, fhartell@ufl.edu

ENVIRONMENTAL HORTICULTURE

Mallory Buchyn, mbuchyn@ufl.edu

FOREST, FISHERIES AND GEOMATIC SCIENCES (FFGS)

To register for any FFGS courses, fill out the form at https://ufl.qualtrics.com/jfe/form/SV_9GiXOIByE1Lvccm

For issues, email ffgs-academics@ifas.ufl.edu and include your UFID and location (REC or Gainesville).
Amy Abernethy, aabner@ufl.edu or Kristina Haselier, khaselier@ufl.edu

HORTICULTURAL SCIENCES (HOS)

Eliana Kampf-Plant Breeding, elianak@ufl.edu - *can register you for any HOS, PBGP, or PMCB course*

Curtis Smyder-Horticultural Sciences, curtistr@ufl.edu

Emily McFalls-PMCB, emurphy1@ufl.edu

PLANT PATHOLOGY

Jessica Ulloa, julloa@ufl.edu

SOIL, WATER, AND ECOSYSTEM SCIENCES

Mike Sisk, mjsisk@ufl.edu