

Applied Plant Sciences Specialization Curriculum

In addition to the common curriculum, the student takes courses in the following areas:

Specialization Courses:

Area 1: Genetics and Plant Breeding:

Introduction to Plant Breeding	AGRO 5021	3 cr.
Population and Quantitative Genetics	EEB 5033	4 cr.
Molecular Genetics	GCD 4034	3 cr.
Plant Breeding Principles I	AGRO 8201	3 cr.
Plant Breeding Principles II	AGRO 8202	4 cr.
Cytogenetics	AGRO 8231	4 cr.
Molecular & Cellular Genetics of Plant Improvement	AGRO 8241	3 cr.
Evolution of Crop Plants	HORT 8023	2 cr.

Area 2: Organismal Biology:

Manipulation of Plant Growth and Reproduction	HORT 8044	2 cr.
Plant Response to Environmental Stresses	HORT 8045	3 cr.
Physiol. Ecology of Plants in Natural/Managed Ecosystems	AGRO 8305	4 cr.
Plant Physiology	PBIO 5401	3 cr.
Plant Cell and Molecular Biology	PBIO 5402	3 cr.
Plant Morphology Development and Evolution	PBIO 5403	3 cr.
Developmental Plant Anatomy	PBIO 5404	3 cr.

Area 3: Cropping Systems, Communities, and Commodities:

Landscape Design, Implementation & Management I	HORT 4021	4 cr.
Landscape Operations	HORT 5018	2 cr.
Landscape Design, Implementation & Management II	HORT 5021	4 cr.
Sustainable Fruit Production	HORT 5031	2 cr.
Sustainable Commercial Vegetable Production Systems	HORT 5032	3 cr.
Nursery Management	HORT 5041	4 cr.
Floriculture Crop Production	HORT 5051	4 cr.
Specialty Greenhouse Crop Production	HORT 5052	3 cr.
Turf and Landscape Management	HORT 4061	4 cr.
Turfgrass Science	HORT 5061	3 cr.
Restoration and Reclamation Ecology	HORT 5071	3 cr.
Integrated Weed Management	AGRO 4505	4 cr.
Advanced Perspectives in Weed Science	AGRO 8505	2 cr.
Ecology of Agricultural Systems	AGRO 5321	3 cr.
Advanced Management of Agroecosystems	AGRO 8605	3 cr.
Colloquium in Sustainable Agriculture	SAGR 8010	2 cr.
Management Technologies for Crop Prod	AGRO 4605	3 cr.