

AGRICULTURAL AND ENVIRONMENTAL PLANT SCIENCE

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| Graduate Program Head | Erin Connolly |
| Program Code | AEPS |
| Campus(es) | University Park (Ph.D., M.S.) |
| Degrees Conferred | Doctor of Philosophy (Ph.D.) Master of Science (M.S.) Dual-title Ph.D. and M.S. in Agricultural and Environmental Plant Science and International Agriculture and Development |
| The Graduate Faculty | View (https://secure.gradsch.psu.edu/gpms/?searchType=fac&prog=AEPS) |

The graduate program in Agricultural and Environmental Plant Science emphasizes research that increases the efficiency of production of agronomic and horticultural crops, improves the quality of food, feed, and fiber available for humans and animals, develops an understanding of the basic soil-plant-animal climate complex of which humans are a part, and improves the overall quality of the human environment. Within this framework, students may specialize in various disciplinary foci related to horticultural or agronomic crops including turfgrass. Specialties include plant breeding, genetics, and genomics, agricultural ecology, ecophysiology, management of cropping systems, plant nutrition, root/soil interactions including microbiomes, plant physiology, international agriculture, abiotic stress biology, climate resilience, plant molecular biology and biotechnology, horticultural crop marketing, pomology, viticulture, vegetable production, and weed science.