

Assessment: Assessment Plan

Degree Program - CASNR - Plant and Soil Science (PHD)

CIP Code: 01.1102.00

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Program Purpose Statement: The College of Agriculture and Science and Natural Resources is dedicated to providing programs of excellence in teaching, research and outreach. These educational programs are designed to prepare the student for the dynamic agricultural and renewable natural resources industry- an industry that encompasses five closely related segments: (1) producing agricultural products; (2) supplying agricultural chemical, feed, seed, and other production resources; (3) processing, storing, distributing, and other marketing functions for agricultural products; (4) planning and managing programs for renewable natural resources; and (5) providing technical assistance financing, services, education, research, and communications in all sectors of the food, feed, fiber, and natural resource complex.

Modality: Face-to-Face

Student Learning Outcome: Develop an understanding of both theoretical and applied principles of Plant and Soil Science

Students will develop and demonstrate a theoretical and applied knowledge of Plant and Soil Science

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/25/2014

Assessment Methods

Qualifying Exam - Students will successfully complete their qualifying exam, dissertation, and successfully defend their applied and theoretical knowledge of Plant and Soil Science at their oral exam (Active)

Criterion: 95% of students will successfully complete their qualifying exam and successfully defend their applied and theoretical knowledge of Plant and Soil Science

Schedule: We are in the process of revising our graduate curriculum. We expect this to be completed within one year. At that time we will revise and update the assessment criterion.

Course Level Assessment - Develop relevant literature review of the research project (Active)

Criterion: 95% of all students will develop relevant literature review of the research project

Schedule: We are in the process of revising our graduate curriculum. We expect to have this revision completed in one year. Once completed, we will update our assessment criterion.

Course Level Assessment - Students will write peer-review papers in refereed journals (Active)

Criterion: 95% of all students will write at least 2 peer-review papers in refereed journals

Schedule: We are in the process of revising our graduate curriculum. We expect this revision to take about one year. Once completed, we will revise our assessment criterion.

Student Learning Outcome: Methodological Research Expertise and

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Critical Thinking

Students will demonstrate the use of critical thinking to identify problems and derive conclusions in a complex global society

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/25/2014

Assessment Methods

Oral exam - Students will defend their individual project and general knowledge in the field of Plant and Soil Science (Active)

Criterion: 95% of students will successfully defend their individual project and general knowledge in the field of Plant and Soil Science

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year. Once completed, we will revise our assessment criterion.

Course Level Assessment - Students will write scientific peer-review publications and submit abstracts for oral presentation (Active)

Criterion: 95% of all students will write peer-review publications and submit abstracts for oral presentation

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.

Qualifying Exam - Students will defend their individual project and general knowledge in the field of Plant and Soil Science (Active)

Criterion: 95% of students will successfully defend their individual project and general knowledge in the field of Plant and Soil Science

Schedule: We are in the process of revising our graduate curriculum. We expect this process to take about one year to complete. Once completed, we will revise our assessment criterion.

Student Learning Outcome: Ability to design experiments and analyze data

Students will demonstrate their ability to design experimental plan for their research and analyze data generated.

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/25/2014

Assessment Methods

Oral exam - Students will defend their individual project and general knowledge in the field of Plant and Soil Science (Active)

Criterion: 95% of students will successfully defend their individual project and general knowledge in the field of Plant and Soil Science

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.

Course Level Assessment - Develop experimental design to conduct research project (Active)

Criterion: 95% of all students will develop experimental design to conduct research project

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year. Once completed, we will revise our assessment criterion.

Course Level Assessment - Develop statistical means to analyze data produced in the research project (Active)

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Criterion: 95% of all students will develop statistical means to analyze data produced in the research project

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.

Student Learning Outcome: Develop Communication Skills

Students will communicate in oral form appropriate for research level position in Plant and Soil Science

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/25/2014

Assessment Methods

Course Level Assessment - Students will present their thesis research in PSS 5100 seminar (Active)

Criterion: 95% of students will pass PSS 5100 seminar

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.

Course Level Assessment - Students will present posters and make oral presentation in conference (Active)

Criterion: 95% of all students will present posters and make oral presentation in conference

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.

Course Level Assessment - Students will participate and present their research in industry field day organized by the department (Active)

Criterion: 95% of all students will participate and present their research in industry field day organized by the department

Schedule: We are in the process of revising our graduate curriculum. We expect this to take about one year to complete. Once completed, we will revise our assessment criterion.