Degree Program Assessment Plan

Degree Program - CASNR - DE - Plant and Soil Science (MS)

Student Learning Outcome: Develop an understanding of both Applied and Theoretical Knowledge principles of Plant and Soil Science

Students will develop and demonstrate theoretical and applied knowledge within their field of Plant and Soil Science.

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 08/25/2014

Assessment Methods

<table>
<thead>
<tr>
<th>Assessment Methods</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Oral exam</strong> - Students will write a thesis as evidence of applied and theoretical knowledge in their field of Plant and Soil Science (Active)</td>
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<tr>
<td><strong>Criterion:</strong> 95% of all students will successfully complete a thesis and defend their applied and theoretical knowledge in their field of Plant and Soil Science</td>
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<tr>
<td><strong>Schedule:</strong> This will occur at the oral defense</td>
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| **Oral exam** - Students will successfully complete their thesis project and successfully defend their applied and theoretical knowledge of Horticultural science at their oral exam (Active) |
| **Criterion:** 95% of all students will successfully complete their thesis research and defend their field of applied and theoretical knowledge 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. |

| **Case Studies** - 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 this to take about one year to complete. Once completed, we will revise our assessment criterion. |

Student Learning Outcome: Methodological Research Expertise and 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

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<td><strong>Course Level Assessment</strong> - Students will defend their individual project and general knowledge in the field of Plant and Soil</td>
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Degree Program - CASNR - DE - Plant and Soil Science (MS)

**Science (Active)**

**Criterion:** 95% of all 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** - Non-thesis master students will present a comprehensive oral exam (Active)

**Criterion:** 95% of all students will successfully present a comprehensive oral exam 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** - Students will write scientific peer-review publications and submit abstract for oral presentation (Active)

**Criterion:** 95% of all students will write peer-review publications and submit abstract 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.

**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**

**Master's Comprehensive 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 thesis in their field of Plant and Soil Science.

**Schedule:** This will occur at the comprehensive exam. 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.

**Performance** - Develop experimental design to conduct research project (Active)

**Criterion:** 95% of all students will develop scientifically sound experimental plan to conduct their research.

**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.

**Performance** - Develop statistical means to analyze data produced in their research project (Active)

**Criterion:** 95% of all students will develop statistical means to analyze data produced in their 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 demonstrate their ability to communicate in oral form appropriate for a career in Plant and Soil Science.

- **Outcome Status:** Active
- **Outcome Type:** Student Learning
## Assessment Methods

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

**Criterion:** 95% of students will successfully present their thesis research in an oral presentation  
**Schedule:** This will be completed at the oral defense. 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.

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### 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  
**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.