<table>
<thead>
<tr>
<th>Program:</th>
<th>Soil Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree:</td>
<td>MS</td>
</tr>
<tr>
<td>Department:</td>
<td>Department of Soil and Crop Sciences</td>
</tr>
<tr>
<td>Contact Name:</td>
<td>Wayne Smith</td>
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<tr>
<td>Contact Phone:</td>
<td>979-845-3450</td>
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**Outcome**

Master degree-program requirements, including theories, concepts, principles, and practice, and develop a coherent understanding of the subject matter through synthesis across courses and experiences.

** Marketable Skills**

- Ability to improve agricultural sustainability
- Analytically evaluate new information for both current and future problem-solving and decision-making.
- Review related information to develop and evaluate options and implement solutions for complex problems.

**Outcome**

Apply subject matter knowledge in a range of contexts to solve problems and make decisions.

** Marketable Skills**

- Ability to use logic and reasoning to identify the strengths and weaknesses of alternative solutions, draw conclusions or devise approaches to problem solving.
- Monitor/Assess performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- Identify measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

**Outcome**

Use a variety of sources and evaluate multiple points of view to analyze and integrate information and to conduct critical, reasoned arguments.

** Marketable Skills**

- Select and use training/instructional methods and procedures appropriate for the situation when learning or teaching new things.
- Analyze needs and product requirements to create a design.
- Generate or use different sets of rules for combining or grouping things in different ways.

**Outcome**

Communicate effectively.

** Marketable Skills**

- Understand written sentences and paragraphs in work related documents.
- Clearly and effectively communicate in written and spoken English.
- Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

**Outcome**

Use appropriate technologies to communicate, collaborate, conduct research, and solve problems.

** Marketable Skills**

- Compile, code, categorize, calculate, tabulate, audit, or verify information or data.
- Remain up-to-date technically and apply new knowledge to job.
- Collaborate with technical specialists to resolve design or development problems.

<table>
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<tr>
<th>Outcome</th>
<th>Develop clear research plans and conduct valid, data-supported, theoretically consistent, and institutionally appropriate research.</th>
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</table>
| Marketable Skills | • Use of scientific rules and methods to solve problems.  
• Conduct tests and inspections of products, services, or processes to evaluate quality or performance.  
• Investigate common agronomic and soil based problems to determine specific management techniques. |

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<th>Outcome</th>
<th>Choose ethical courses of action in research and practice.</th>
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| Marketable Skills | • Consider the relative costs and benefits of potential actions to choose the most appropriate one.  
• Determine how a system should work and how changes in conditions, operations, and the environment will affect outcomes.  
• Research sustainable agricultural processes or practices. |