<table>
<thead>
<tr>
<th>Texas A&amp;M University</th>
<th>Marketable Skills: Doctoral</th>
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</thead>
<tbody>
<tr>
<td>Program:</td>
<td>Molecular and Environmental Plant Sciences</td>
</tr>
<tr>
<td>Degree:</td>
<td>PharmD</td>
</tr>
<tr>
<td>Department:</td>
<td>Interdisciplinary Degree Program</td>
</tr>
<tr>
<td>Contact Name:</td>
<td>Dirk Hays</td>
</tr>
<tr>
<td>Contact Phone:</td>
<td>979-845-6148</td>
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| Outcome | Master degree-program requirements, including theories, concepts, principles, and practice; develop a coherent understanding of the subject matter through synthesis across courses and experiences; and apply subject matter knowledge to solve problems and make decisions. |
| Marketable Skills | • Apply knowledge of plant organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.  
• 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 a variety of strategies and tools, use a variety of sources, and evaluate multiple points of view to analyze and integrate information and to conduct critical, reasoned arguments. |
| 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 | 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 | Develop clear research plans, conduct valid, data-supported, theoretically consistent, and appropriate venues to a range of audiences. |
| 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.  
• Design molecular and environmental plant science experiments, oversee their execution, and interpret results. |

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

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<tr>
<td>• Compile, code, categorize, calculate, tabulate, audit, or verify information or data.</td>
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<tr>
<td>• Remain up-to-date technically and apply new knowledge to job.</td>
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<tr>
<td>• Collaborate with technical specialists to resolve design or development problems.</td>
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<thead>
<tr>
<th>Outcome</th>
<th>Teach and explain the subject matter in their discipline.</th>
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<tr>
<td>Marketable Skills</td>
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<tr>
<td>• Communicate research or project results to other professionals or the public or teach related courses, seminars, or workshops.</td>
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<tr>
<td>• Communicating effectively in writing as appropriate for the needs of the audience.</td>
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<tr>
<td>• Translating or explaining what information means and how it can be used.</td>
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<tr>
<th>Outcome</th>
<th>Choose ethical courses of action in research and practice.</th>
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<td>Marketable Skills</td>
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<tr>
<td>• Consider the relative costs and benefits of potential actions to choose the most appropriate one.</td>
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<tr>
<td>• Determine how a system should work and how changes in conditions, operations, and the environment will affect outcomes.</td>
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<td>• Research sustainable agricultural processes or practices.</td>
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