<table>
<thead>
<tr>
<th>Program:</th>
<th>Ecology and Evolutionary Biology</th>
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<tbody>
<tr>
<td>Degree:</td>
<td>PhD</td>
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<tr>
<td>Department:</td>
<td>Ecology and Evolutionary Biology IDP</td>
</tr>
<tr>
<td>Contact Name:</td>
<td>Nick Jacobsen</td>
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<td>Contact Phone:</td>
<td>(979) 845-2114</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**

- Critical Thinking: Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Active Learning: Ability to find new information and understanding the implications of new information for both current and future problem-solving and decision-making.

**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**

- Getting Information: Observing, receiving, and otherwise obtaining information from all relevant sources.
- Active Listening: 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.
- Documenting/Recording Information: Entering, transcribing, recording, storing, or maintaining information in written or electronic form.

**Outcome**

Communicate effectively.

** Marketable Skills**

- Speaking: Talking to others to convey information effectively.
- Writing: Communicating effectively in writing as appropriate for the needs of the audience.
- Persuasion: Persuading others to change their minds or behavior.

**Outcome**

Develop clear research plans, conduct valid, data-supported, theoretically consistent, and appropriate venues to a range of audiences.

** Marketable Skills**

- Science: Using scientific rules and methods to solve problems.
- Collaboration: Using scientific expertise and communication skills, work effectively as a team member with individuals from a variety of different disciplines and sectors.
- Using analytical or scientific software: working with appropriate software packages to appropriately analyze data and present results to a variety of audiences.

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<tr>
<th>Outcome</th>
<th>Use appropriate technologies to communicate, collaborate, conduct research, and solve problems.</th>
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| Marketable Skills | • Instructing: Taking advantage of an expanding variety of available technologies to effectively teach people in different settings.  
• Data Collection: In field and/or lab settings, develop skills to use appropriate technology for data collection and storage.  
• Data Analysis: Using and understanding appropriate data analysis and database software to store, analyze, and present data to members of academia as well as the general public. |

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<th>Outcome</th>
<th>Teach and explain the subject matter in their discipline.</th>
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| Marketable Skills | • Instructing: Teaching others how to do or understand something.  
• Learning Strategies: Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.  
• Evaluation: Using effective evaluation tools to ensure continuous improvement of content and teaching methods in repeated courses. |

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<th>Outcome</th>
<th>Choose ethical courses of action in research and practice.</th>
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| Marketable Skills | • Judgment and Decision Making: Considering the relative costs and benefits of potential actions to choose the most appropriate one.  
• Social Perceptiveness: Being aware of others' reactions and understanding why they react as they do.  
• Service Orientation: Actively looking for ways to help people or the environment. |