Driskill Graduate Program in Life Sciences

Graduate Program Goals/Mission Statement:

We seek to provide students a challenging and supportive environment in which students will develop into independent scientists. Students should learn fundamental biological principles, develop critical thinking skills, and develop both oral and written communication skills. Students are also expected to generate a body of work that contributes to new knowledge in their field.

<table>
<thead>
<tr>
<th>Learning objective(s)</th>
<th>Milestone/Requirement/Capacity</th>
<th>Assessment Strategies and Criteria*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students should be able to...</td>
<td></td>
<td>How do we know this objective has been achieved?</td>
</tr>
<tr>
<td>Comprehend fundamental biological principles</td>
<td>Coursework</td>
<td>What criteria do we have to measure success?</td>
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<tr>
<td>Develop Critical thinking skills</td>
<td>Research, proposals, experimental design and analysis</td>
<td>Successfully complete coursework, including core classes, with a cumulative GPA of at least 3.0.</td>
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| Present information verbally, advancing their oral communication skills | Seminar requirement, thesis committee meetings and defenses | 1. Coursework includes proposal writing for many electives. Students are required to take a course on proposal writing, which must be passed.  
2. Qualifying exam consists of developing a research proposal. Student must write the proposal and defend to a faculty committee.  
3. Student needs to develop a thesis proposal and submit to their committee for approval.  
4. Student must conduct original research. Students are expected to design and analyze their own experiments as they advance through the program. Progress is tracked by the advisor and thesis committee. |

*Assessment Strategies and Criteria include how the objective has been achieved and what criteria are used to measure success.
| Communicate through writing, advancing their written communication skills | Qualifying exam, thesis proposal and committee meetings, thesis, publication | 1. Qualifying exam written proposal is evaluated by a faculty committee and feedback is provided.  
2. Thesis proposal is submitted to the thesis committee for evaluation. Thesis committee provides feedback to the student.  
3. For each yearly committee meeting, students must submit a written report of their research so far and plans for the future to be evaluated by the thesis committee.  
3. Student must communicate their research in their dissertation. Dissertation is evaluated by the thesis committee.  
4. Students must publish at least one first author, peer reviewed research publication. |
|---|---|---|
| Contribute to their field | Thesis, Publication | 1. The thesis committee evaluates the written thesis to determine whether it constitutes a significant contribution to the student’s field of research.  
2. Students must publish at least one first author, peer reviewed research publication. |