### Student Learning Outcomes and proposed Methods for collecting data (from assessment plan)

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Methods of Assessment</th>
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<tbody>
<tr>
<td>1  Fundamental understanding of the principles, major research findings and current unresolved problems in their area of emphasis</td>
<td>•  Comprehensive Examination (1,2,4,5)</td>
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<td>2  Effective scientific communication skills</td>
<td>•  Written Research Thesis (1-6)</td>
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<tr>
<td>3  Effective laboratory and field research skills</td>
<td>•  Committee meetings (1-6)</td>
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<tr>
<td>4  Proficiency in critical thinking</td>
<td>•  Graduate seminar (1,2,4,5)</td>
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<td>5  Appropriate use of the scientific method</td>
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<td>6  Technical writing proficiency</td>
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