Fall 2014

Physics Discipline 3-Year Assessment Plan 2014-2017

Physics Discipline

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University of Minnesota, Morris
Academic Program Assessment Plan

<table>
<thead>
<tr>
<th>Academic Program: Physics</th>
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<tbody>
<tr>
<td>Academic Division: Science and Mathematics</td>
</tr>
<tr>
<td>Program Contact:</td>
</tr>
<tr>
<td>Name: Gordon McIntosh</td>
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</tbody>
</table>

In the space below, list your Program Student Learning Outcomes (PSLOs):

The physics program sees its PSLOs as to help students:
1. Understand the concepts of classical and modern physics
2. To develop students’ ability to solve quantitative problems in these areas.
3. To acquire the skills necessary to perform experimental work.
and 4. To develop students’ ability to communicate, in form and content, both orally and in writing, the results of scientific work.
<table>
<thead>
<tr>
<th>Program Student Learning Outcome(s) to be assessed</th>
<th>How will you measure the outcome?</th>
<th>Where will the data be collected and by whom?</th>
<th>When will the data be collected?</th>
<th>Overlap with CSLOs?* If yes, which CSLO?</th>
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</table>
| 2014-15 Senior Thesis - PSLO 4                   | The physics discipline underwent a program review in 2011. This review included a survey of physics alumni. The alumni indicated the most useful skills in their respective professional environments. As a result of this survey and our self-assessment, we adjusted our curriculum. The Senior Thesis course was expanded from one to two credits to more accurately match the workload and to increase the discipline based writing and speaking expectations for our majors. Initial, informal assessment is that students value the opportunity to study various topics in physics even if the depth of the study is limited.  

In order to expand discipline based speaking and writing Phys 4901 Senior Thesis was changed from one credit to Phys 4901 Senior Thesis I and Phys 4902 Senior Thesis II. Each of these courses is worth one credit. The 2015-2016 is the first year in which this new model of Senior Thesis has been in effect so the outcome has yet to be measured. | | | Yes, CSLO 2 |
| 2015-16 General Physics II – PSLOs 1 and 2  
Modern Physics – PSLO 3  
Senior Thesis I and II- PSLO 4 | The course instructors will measure the outcome by scoring, recording, and interpreting specific problems, laboratory reports, oral presentations, and written reports. The data will be collected throughout the semester during which the course is taught. | | | Yes, CSLOs 1, 2 and 4 |
### 2016-17

| Principles of Physics I – PSLOs 1 and 2 | Senior Thesis I and II - PSLO 4 | The course instructors will measure the outcome by scoring, recording, and interpreting specific problems, laboratory reports, oral presentations, and written reports. The data will be collected throughout the semester during which the course is taught. | Yes, CSLOs 1, 2 and 4 |

*Your PSLOs need not overlap with CSLOs, but if your PSLO does reinforce or overlap with a CSLO, please report that information.*
Please report any other planned assessment for your academic program in the space below: