

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment for BS undergraduate students
 Department of Physics
 Adopted 12 December 2014

| Expanded Statement of Institutional Purpose | Intended Objectives/Outcomes | Assessment Criteria and Procedures | Implementation (what, when, who) |
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| <p>MISSION STATEMENT:</p> <p>The Physics Undergraduate Program will provide scientists and professionals with the training and insight to understand and explore the physical world, from elementary particles to the structure and origin of the universe.</p> <p>GOAL STATEMENT:</p> <p>We will maintain a program of high quality produce graduates capable of solving current problems and applying their skills in physics and other related disciplines.</p> | <p>Upon completion of the program, graduates can apply their physics problem solving skills in a variety of fields.</p> | <p>Physics will maintain a strong reputation for producing well-trained graduates, capable of entering graduate study or professional study in a technical field.</p> | <p>Graduates will be surveyed to identify program strengths and weaknesses. These surveys will be used in department program development strategies.</p> |
| | <p>Students will be capable of analyzing a problem, identifying the critical aspects, and devising appropriate methods to resolve the questions that arise, and communicating those results to a scientific audience.</p> | <p>Presentations for PHYS Physics Laboratory will be assessed by the faculty for their ability to communicate results in a public forum.</p> | <p>Students and faculty will be surveyed.</p> |
| | <p>Graduates will be successful in obtaining work, entering a graduate program or applying their physics training in another field.</p> | <p>80% will be employed or admitted to a graduate program one year after graduation.</p> | <p>Graduates will be surveyed.</p> |
| | <p>Demonstrated problem solving, written and oral communication skills.</p> | <p>At a department meeting in May of each year, the faculty will assess each graduate on their abilities in each area. This assessment will be based on coursework, student interactions and undergraduate research (if applicable).</p> | <p>Students and faculty will be surveyed.</p> |