#### UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment for Physics BS program
Department of Physics
Adopted 12 May 2016

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| MISSION STATEMENT:                         | Basic understanding of fundamental laws of physics and ability to apply to them to real world problems | Physics will maintain a strong International reputation for producing well-trained graduates. | 1. FCI (At beginning & end of phys 211x, at the end of phys 213x and just before graduation)  
2. Capstone course (presentation form)  
3. Student presentation (presentation form)  
4. Exit interview (written and/or oral form) |
| Ability to engage in analytical thinking, problem solving and demonstrate subject expertise | Students will demonstrate their abilities and progress through presentations, and written reports. | 1. Research experience: Capstone project (mentor rubric/presentation form)  
2. National competition presentation evaluation (presentation form) |
| Appropriate preparation for Higher education and/or Professional career | 80% will be employed or admitted to a graduate program one year after graduation. Additionally they will have been exposed to research and appropriate communications techniques through the capstone course and communications sequence. | 1. Capstone courses (research) (mentor rubric/presentation form)  
2. Communications (phys 213, 381, 462, capstone) (presentation forms)  
3. Number of students pursuing Education at next level (enumerate)... or ...  
4. Employment of graduating students into appropriate careers (enumerate)  
5. Number of students involved in faculty research (enumerate)  
6. Honors, awards, and other forms of Recognition (enumerate)  
7. Presentations and publications (enumerate)  
8. Survey of student perception of their own learning (annual survey form)  
9. Survey of alumni perception of their own learning (alumni survey form - after 1 and 5 years) |
| Preparation for: Lifelong learning, Outreach, and Community development | Students will demonstrate their abilities through presentations and outreach activities. | 1. Capstone course (presentation form)  
2. 213 general audience presentation (presentation form)  
3. Outreach activity involvement:  
   - Outreach presentations (enumerate)  
   - Targeted seminars (enumerate)  
   - Science fair participation (enumerate) |

MISSION STATEMENT:

The Physics Undergraduate Program will provide scientists and professionals broad problem solving skills and the training and insight to understand and explore the physical world, from elementary particles to the structure and origin of the universe.

GOAL STATEMENT:

We will maintain a program of high quality, international reputation and produce scientists and professionals capable of solving current problems and anticipating future challenges in Physics as well as other disciplines.