

Physics BS Assessment Plan

Undergraduate Learning Outcomes:

Learning Outcome	Description	Year Assessed	Criteria for Success	Criteria Met?
Intellectual Literacy	Students will solve problems by applying the primary physical theories: classical mechanics, thermodynamics, wave phenomena, electricity and magnetism, and modern physics.			
Critical Thinking A	Students will apply appropriate mathematical tools to solve physical problems.	2015-2016	Students will be administered the "Colorado Upper-Division Electrodynamics" (CURrENT) test, both at the start and end of tuition in PHYS 330B (Senior level course). Student gain for the course is expected to exceed 0.15.	Yes
Critical Thinking B	Students will demonstrate understanding of scientific inquiry by designing experiments and analyzing experimental data.			
Communication	Students will clearly and concisely report scientific observations and analysis of experimental data.	2014-2015	Student oral presentations will be assessed in 6 categories, each category scored on a scale of 0 - 3 points. Students will be assessed by 3 independent assessors, each offering their own scores. Overall percentage of scores at the 2 (meets expectations) or 3 (exceeds expectations), summed across all three assessors, to be greater than or equal to 80%.	
Teamwork	Students will demonstrate the ability to work collaboratively to collect and interpret data and draw conclusions.	2016-2017	Students teamwork skills will be assessed in our capstone laboratory course using a rubric (modified from the AACU Teamwork VALUE Rubric) on a scale of 1-4. Students will be assessed by the instructor of the course. Students will self-assess their teamwork skills near the end of the semester.	

For the most up-to-date information, please contact the program.