Science Division
Course Outcomes Assessment
FA 16

Course Title: PHY 201 – General Physics 1, 4 credits
Program Team: Paul Jozik

Expected Learning Outcomes:

1. Use mathematical models as a medium for quantitative reasoning and describing physical reality.
2. Use graphical models to analyze laboratory data.
3. Apply the classical conservation laws as a basis of deriving and understanding physics principles.
4. Describe physics concepts verbally, graphically, and mathematically
5. Solve problems individually and collaboratively
6. Use software to analyze physics experiments
7. Access, process, analyze and synthesize scientific information.

Assessment (How do or will students demonstrate achievement of each outcome?)

four lecture exams, two laboratory exams, and lab reports

Validation (What methods have you used or will you use to validate your assessment?)

Students passing with a 75% or better

Results (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?

A large proportion of the students are achieving success in this course. A common relationship is that students who do not complete assigned problems and/or lab reports make up a disproportionately large portion of the students who begin the course and either do not complete the course or do not achieve success by the end of the semester.

Follow-up (How have you used or how will you use the data to improve student learning?)

I look for weaknesses in the students' performance on the individual problems on each exam and in their lab reports. Adjustments are where deemed appropriate.

Budget Justification (What resources are necessary to improve student learning?)

No additional resources needed.

Course: PHY 201   **SLOA Data**   **Faculty Team: P. Jozik**

	FA 2009	FA 2010	SU 2011	FA 2011	SU 2012	FA 2012	SU 2013	FA 2013	SU 2014	FA 2014	FA 2015	FA 2016
# Active students	29	29	9	42	NA	24	NA	21	NA	28	37	20
%W	28%	24%	33%	14%	NA	0	NA	0		0	0	0
*% walk-away Fs No final exam/grade = F	14%	3%	NA	5%	NA	25%	NA	0		0	16%	0
% Success (A,B,C)	66%	64%	44%	83%		67%		86%		93%	78%	100%
Mean Common Lab Exam Score	85%	88%		86%		80%		81%		86%	82%	76%
Median Score	88%	89%		88%		85%		84%		86%	83%	77%
Common Final Exam Score	78%	85%		88%		77%		77%		77%	75%	85%
Median Score	80%	90%		91%		80%		79%		79%	77%	88%
Mean course grade	2.50	2.57	2.14	3.03		2.17		2.52		2.82	2.27	2.70
Weakest Content Areas												

*% Walk-away Fs = Did not take the final exam and received a grade of F.