

13-14: 14-5h.

Curriculum Proposal Cover Sheet - University Wide Undergraduate Curriculum Committee

Proposal Number: 14-5h	Proposal Title: [Illegible]
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Department: [Illegible]	College: [Illegible]
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Author: [Illegible]	Department Chair: [Illegible]	College Dean: [Illegible]
Co-Author: [Illegible]	Department Chair: [Illegible]	College Dean: [Illegible]

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COURSE SYLLABUS

I. CATALOG DESCRIPTION

PHYS 141 Physics I Laboratory -C

0c-3l-1cr

Corequisite: PHYS 131

Physics laboratory at the same level of Physics I; exercises in mechanics, wave motion, and sound.

II. COURSE OBJECTIVES

1) Students will demonstrate laboratory techniques such as graphing, error analysis and data manipulation.

EUSLO 1 *Informed Learners* and EUSLO 2 *Empowered Learners*

Rationale: Based upon the activities presented in the lab class, students will interpret, analyze, and use numerical and graphical data. The ability to interpret data is an empowering activity.

2) Students will use probes and sensors connected through an interface to measure and analyze data.

10% subjective evaluation

V. GRADING SCALE

Score			Grade
100 %	to	90%	A
89%	to	80%	B
79%	to	70%	C
69%	to	60%	D
Less than		60%	F

Liberal Studies Course Approval General Information
On a separate sheet of paper, please answer these questions

(Do not include this sheet or copies of the questions in your proposal; submit only the answers)

1) All sections use the same text book and lab manual. There is a Physics Department Faculty Lab committee meeting once per week where the current laboratory is discussed. All faculty who are assigned to sections of this course attend the meeting.

2) This is an introductory course in physics for science majors. The bulk of the course content is on the concepts of physics and problem solving. This lab class also requires the lecture class. These issues will be covered in the lecture class.

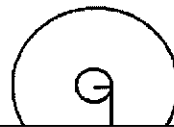
3) Since this class is a skill based laboratory course, there will be no outside reading.

4) This class is the introductory course for Physics and Pre-Engineering majors.

Sample Lesson Evaluation

Scoring rubric - each correct answer is worth one point, for a total of six points.

ROTATIONAL MOTION



OLD COURSE SYLLABUS

CATALOG DESCRIPTION

PHYS 121 / PHYS 141 Physics I Laboratory

1 credit
3 lab hours
0c-11-1cr

Corequisite: ·PHYS 111 / PHYS 131

Physics laboratory at the level of Physics I; exercises in mechanics, wave motion, and sound.

II. COURSE OBJECTIVES

Basic training in laboratory techniques such as graphing, error analysis, etc.

III. COURSE OUTLINE

Laboratory exercises (one experiment each week)

1. Measurement
2. Error
3. Acceleration of a freely falling body
4. Uniformly accelerated motion: the Atwood machine
5. Graphs and empirical equations
6. Air tracks and friction
7. Impulse and momentum
8. Collisions: Elastic and inelastic
9. Rotational motion
10. Half-life of a water column
11. The harmonic oscillator
12. Standing waves
13. Forced harmonic oscillator with damping

IV. EVALUATION METHODS

The final grade for the course will be determined as follows:

- 50% laboratory reports
- 40% weekly quizzes or pre-lab questions
- 10% subjective evaluation