CAMPBELLSVILLE UNIVERSITY

COURSE SYLLABUS

PLEASE TYPE. DATE February 9, 2017

ACADEMIC UNIT Natural Science FACULTY Steven Alston

☐ Please check to indicate this course has a service learning component.

Discipline	Course# Section	Title of Course	Credit Hours	Cross Reference (if applicable)
PHY	143/243-91	General Col./Univ. Physics I Lab	1	

TEXTBOOK ☑ Required ☐ Not Required

Author Alston Title Laboratory Manual for Introductory I

Publisher _____ Date of Publication _____

WORKBOOK

Author _____ Title _____

Publisher _____ Date of Publication _____

PLEASE ANSWER THE FOLLOWING QUESTIONS ON A SEPARATE SHEET OF PAPER AND ATTACH TO THIS FORM.

1. DESCRIPTION OF COURSE: Develop a brief description of the course as it will appear in the Catalog.

2. STUDENT LEARNING OBJECTIVES: List the student learning objectives for the course. Please relate these objectives to the mission and goals of the University and the Academic Unit. For general education courses, please indicate which student learning objectives address general education goals and the intended method of assessment. A minimum of four of the seven general education goals must be included.

   Example: Students will demonstrate their ability to compare and contrast two types of basket weaving. (Goal: Oral and Written Communication; Evidence: research paper and class presentation)

3. COURSE OUTLINE: Outline the topics/units that are to be taught.

4. EVALUATION: How do you plan to determine the grade in the course? Please include grading scale.

5. REQUIREMENTS:
   a. Examinations: State when tests are to be administered, including unit, mid-term, and final examinations.
   b. Reports: How many, length required, and what type (Oral, term and/or research, book critiques).
   c. Supplemental reading assignments or outside work required.
   d. Supplemental instruction aids: Audio visual aids, field trips, guest speakers, etc.

6. BOOKLIST

DEAN Date Copy Received _____

VICE PRESIDENT FOR ACADEMIC AFFAIRS Date Copy Received _____

PHY 143/243 – General College/University Physics I Lab

Spring 2017

T 11:00am-1:30pm, R 9:30am-12:00pm

Instructor:	Dr. Steve Alston, CH 302 or SSC 218A, ext. 5250 or 5062, salston@campbellsville.edu
Textbook:	Handouts from *Laboratory Manual for Introductory Physics*, S. Alston (provided)
Attendance:	Required, per CU policy; recorded; 10% off report grade for tardiness or early exit
Division of credit:	13 lab reports; labs ***must*** be made up; reports graded on a 10-point scale; make-up labs allowed ***only by prior arrangement with instructor***, otherwise 10% off; 3 individual formal reports (14% each, due next lab period, late reports deducted); 3 group formal reports (7% each, due next lab period, late reports deducted); 6 group data sheet (5% each, due at lab end or next day); 1 group PowerPoint presentation (7%)
Grading:	Grade based on overall numerical average: A (89+), B (78+), C (67+), D (55+)
Academic dishonesty:	Individual reports, except for raw data, must be one's own work—no duplication; Natural Science Division Academic Integrity Policy will be followed (see online)
Office hours:	MTWF 900-10:00 am; MWRF 1:00-2:00 pm; by appointment

Learning objectives:

1) To practice application of the scientific method through attempts to verify known physical relations;
2) To gain a quantitative, experimental knowledge of mechanics, thermodynamics, and mechanical waves;
3) To learn to set up, work with, and troubleshoot mechanical and electronic experimental equipment;
4) To develop skills used in analyzing data, writing reports and working in small groups.

Campus Security can be reached anytime (270-789-5555, office; 270-403-3611, cell) for any security issues.

Disability Services: Campbellsville University is committed to providing reasonable accommodations for students who have documented physical and learning disabilities or medical or emotional conditions. If you have a documented disability or condition of this nature, you may be eligible for disability services. Documentation must be from a licensed professional and current in terms of assessment. Please contact the Coordinator of Disability Services at 270-789-5192 to inquire about services.

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Projected class coverage:

Tues., Thurs., Jan. 24, 26	I.2 Acceleration Due to Gravity	gd *	5%
Tues., Thurs., Jan. 31, Feb. 2	I.3 Concurrent-Force Equilibrium	gf	7
Tues., Thurs., Feb. 14, 16	I.5 Static and Sliding Friction	gd	5
Tues., Thurs., Feb. 7, 9	I.4 Newton's Second Law	if	14
Tues., Thurs., Feb. 21, 23	I.6 Momentum-Energy Conservation	gd	5
Tues., Thurs., Feb. 28, Mar. 2	I.7 Rotational Kinematics	gd	5
Tues., Thurs., Mar. 7, 9	I.8 Nonconcurrent-Force Equilibrium	if	14
Tues., Thurs., Mar. 21, 23	I.9 Buoyant Force in a Fluid	gf	7
Tues., Thurs., Mar. 28, 30	I.10 Thermal Expansion	gd	5
Tues., Thurs., Apr. 4, 6	I.11 Specific Heat of a Solid	if	14
Tues., Thurs., Apr. 11, 13	Make-Up Labs		
Tues., Thurs., Apr. 18, 20	I.13 Simple Harmonic Motion	gf	7
Tues., Thurs., Apr. 25, 27	Group lab presentations	gf	7
Tues., Thurs., May. 2, 4	I.14 Resonant Wave Motion	gd	5

* g = group report, i = individual report, f = formal report, d = data report