

Department: Academic Upgrading

Physics 0130 Winter 2008 Course information and outline:

Grade 12 Equivalent PC0130 (5-0-1.5)

Credit/Contact Hours: 5-credit course - 5 hr./wk lecture and 1.5 hr/wk lab

Instructor: Sheryl Heikel (Bachelor of Education: Secondary Math/Science)

Phone: 539-2849

Office: E401-2

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Office Hours: Immediately after class Tuesday 2:30 -3:30 and

Thursday 2:30 -3:00, or by appointment

Prerequisite(s)/co-requisite(s): PC 0120 or equivalent

MA 0120 or equivalent or MA0130 placement.

Required Text: COLLEGE PHYSICS by WILSON & BUFFA (Sixth Edition)

Course Description: The major concepts to be covered in this course include:
Brief review of Work, Energy, Conservation Laws; Trigonometry and vectors;
Momentum and its conservation; Electric forces and fields; Current
electricity; Magnetic fields and electromagnetic induction; Blackbody
radiation, photoelectric effect, and Compton's effect; The Nucleus and the
nuclear reactions- fission and fusion. Both understanding of Physics theory,
problem solving and lab skills are emphasized. Practice problems will be
assigned from each chapter.

Labs: Lab attendance is compulsory. Missed labs receive a score of zero.

Make-up labs CANNOT be guaranteed. Lab reports are due on the post dates. Late reports result in a penalty of 2 marks per day for up to two days. After this they are not accepted.

Regular attendance is important for success in the course.

Cell phones or otherwise will not be permitted.

The instructor reserves the right to use electronic plagiarism detection services.

<u>Uni</u>	<u>†</u>	<u>Dates</u>
Introduct	ion	Jan 2-11
Unit A:	Momentum and Impulse	Jan 18-25
	Unit A Exam	Jan. 28
Unit B:	Electric forces and fields; Current electricity;	Jan 28-Feb 14
	Unit B Exam	Feb 15
Reading Week		February 18-22
Mid	term Exam 1	Feb. 25
Unit C:	Magnetic fields,electromagnetic induction; EMR	Feb 26 - Mar 14
	Unit C Exam	Mar 17
Unit D:	Atomic Physics	Mar 18 - Apr 10
	Unit D Exam	April 11
	t day of regular classes April 11	
Mid	term Exam 2 will be scheduled with college finals.	

Lab Period Schedule (Mondays 12:30-2:20)

no lab
Lab 1: Spring Constant
Lab 2: Momentum in One Dimension
Unit A Exam
Lab 3: Electrostatics
Lab 4: Ohm's Law
February 15 Friday Unit B Exam
Reading Week February 18-22
Reading Week February 18-22 Midterm Exam
Midterm Exam
Midterm Exam Lab 5: Circuits, Series and Parallel
Midterm Exam Lab 5: Circuits, Series and Parallel Lab 6: Current Balance
Midterm Exam Lab 5: Circuits, Series and Parallel Lab 6: Current Balance Unit C Exam
Midterm Exam Lab 5: Circuits, Series and Parallel Lab 6: Current Balance Unit C Exam to be announced

Evaluation: The final grade in the course will be based on the following components.

Unit Exams (4) = 40% Midterms (2) = 45% Labs = 15%

Exams **must** be written at the scheduled times unless **prior** arrangements have been made with the instructor. A missed exam will result in a score of **zero**.

Final Grades are assigned on the Letter Grading System.

Academic Upgrading Department Grading Conversion Chart

Alpha Grade	4-point	Percentage	Designation		
Zupila Grade	Equivalent	Guidelines			
A*	4	90 – 100	EXCELLENT		
Α	4	85 – 89	EXCELLIN		
A ⁻	3.7	80 – 84	FIIRST CLASS STANDING		
B⁺	3.3	76 – 79			
В	3	73 – 75	GOOD		
B-	2.7	70 – 72			
C+	2.3	67 – 69			
С	2	64 – 66	SATISFACTORY		
C-	1.7	60 – 63			
D*	1.3	55 – 59	MINIMAL PASS		
D	1	50 – 54	MINIMAL PASS		
F	0	0 – 49	FAIL		