

DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – PC0130 B3 PHYSICS GRADE 12 EQUIVALENT WINTER 2015

INSTRUCTOR:Dr. Brian Redmond, Ph.D.PHONE:(780) 539-2093OFFICE:J206E-MAIL:bredmond@gprc.ab.ca

OFFICE HOURS: TBA

PREREQUISITE(S)/COREQUISITE: PC0120 (or Physics 20) and MA0122 (Math 20-2) or MA0120 (Math 20-1) or MA0130 placement

REQUIRED TEXTS/RESOURCE MATERIAL: Pearson Physics 2009 (either hardcover or electronic edition: <u>http://media.pearsoncmg.com/intl/pec/school/physics/</u>); Scientific Calculator

CALENDAR DESCRIPTION: The major concepts to be covered in this course include: momentum and impulse; electric forces and fields; current electricity; magnetic forces and fields; electromagnetic radiation (light); and atomic physics. Problem solving is highly emphasized throughout the course.

CREDIT/CONTACT HOURS: 5 (5-0-1.5) HS

DELIVERY MODE(S):	Lectures:	B3	ΜT	11:30-12:50	J202
			RΕ	11:30-12:20	J202
	Lab*:	L3	W	8:00-9:50	J103
	*Labs will start in the week of Jan. 12-16				

OBJECTIVES: A detailed list of course objectives and outcomes can be found on pages 39-69 in the following document: <u>http://education.alberta.ca/media/654853/phy2030_07.pdf</u>

TRANSFERABILITY: See www.gprc.ab.ca and www.acat.gov.ab.ca

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions and may not meet the prerequisite requirements for other math courses. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE					
GRADING CONVERSION CHART					
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation		
A ⁺	4.0	90 - 100	EXCELLENT		
Α	4.0	85 – 89	EXCELLENT		
A⁻	3.7	80 - 84	FIRST CLASS STANDING		
B+	3.3	77 – 79	FIRST CLASS STAINDING		
В	3.0	73 – 76	GOOD		
B-	2.7	70 – 72	GOOD		
C+	2.3	67 – 69	SATISFACTORY		
С	2.0	63 – 66			
C-	1.7	60 - 62			
D+	1.3	55 – 59	MINIMAL PASS		
D	1.0	50 – 54	IVIIVIIVIAL FASS		
F	0.0	0 – 49	FAIL		
WF	0.0	0	FAIL, withdrawal after the deadline		

EVALUATIONS:	Assignments	10%
	Tests	20%
	Labs	15%
	Midterm	20%
	Final Exam	35% April 16-27 inclusive (Saturdays and evenings)

STUDENT RESPONSIBILITIES:

Students are responsible for all lecture material, labs and readings. Students are expected to practice the material by doing problems from the textbook. Assignments will not be accepted if handed in late. Attendance is required in labs and on test days (see schedule below). There will be no make-up labs or tests. If the midterm is missed due to illness the weight will be transferred to the final. If the final is missed due to illness it will be deferred (see calendar for more information). A doctor's note and a phone message or email will be required in both cases.

STATEMENT ON PLAGIARISM AND CHEATING: Refer to the Student Conduct section of the College Admission Guide at <u>http://www.gprc.ab.ca/programs/calendar/</u> or the College Policy on Student Misconduct: Plagiarism and Cheating at <u>www.gprc.ab.ca/about/administration/policies/**</u>

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

А. В.	Momentum and Impulse Forces and Fields	Chapter 9 Chapters 10-12	Test 1: Tuesday, Jan. 27 Test 2: Tuesday, Feb. 10
		·	Midterm: Tuesday, Mar. 3
C.	Electromagnetic Radiation	Chapters 13-14	Test 3: Tuesday, Mar. 24
D.	Atomic Physics	Chapters 15-17	Test 4: Tuesday, Apr. 7