P225, WINTER, TERM 1: A. JIRASEK, TUES/THURS 12:30 - 2PM, SCI 236

Date	Lecture	Topics	Mazur*	FLP*	Assignment / Quiz
16/09/08	1	Intro, Coulomb's Law, E & M fields, vector fields	Ch 22 All	1.1-3	
16/09/13	2	derivatives of fields, del operator, flux of vector field, Gauss' theorem		2.1-5,7,8, 3.1-4	1
16/09/15	3	E field of continuous distributions, Energy assoc w/ E, force on charge	23.1-7		1
16/09/20	4	Electric dipole, Flux, Gauss' Law	23.8, 24.1-6		
16/09/22	5	Electric potential, multiple charges, dipole	25.1-7		1
16/09/27	6	Gauss' Law differential form, Applications, E field	24, 25	4.1-7, 5.1-10	A1, Q1
16/09/29	7	Field from potential, Laplacian	25.6-7	6.1-6	1 1 1 1
16/10/04	8	Capacitance	26.1-5		1
16/10/06	9	Dielectrics, polarization	26.7-8	10.1-5, 11.1-5	1
16/10/11	10	Current & Resistance	31.1-2	9.1-6	A2
16/10/13	11	Mid term exam			Q2
16/10/18	12	Magnetic field, B from a current, Ampere's Law	27.1-7, 28.5		
16/10/20	13	Ampere's Law, Solenoid, Gauss's Law in Magnetism	28.1-7		1 1 1 1
16/10/25	14	Magnetic forces	27.1-7		1
16/10/27	15	Magnetic Torques, Motion of charged particles in B fields	28.3-8		
16/11/01	16	Magnetism in Matter, Vector potential, energy of steady currents		14.1-7	A3, Q3
16/11/03	17	Induction, magnetic flux, Faraday's law	29.1-3		1
16/11/08	18	Faraday's law, induced fields	29.4-8	17.1-2	
16/11/15	19	E&M fields & waves, displacement current	30.1-2		1
16/11/17	20	Maxwell's equations, EM waves	30.4-6	18.1-5	A4, Q4
16/11/22	21	E&M waves, polarization	30.4-6	18.6	1 1 1 1
16/11/24	22	Solutions to Maxwell's equations		20.1-4, 21.1-2	1
16/11/29	23	Solutions to Maxwell's equations con't		20.1-4, 21.1-2	A5, Q5
16/12/01	24	SPARE			

^{*}Textbooks:

^{1.} Mazur, Principles of Physics, vol 2.

2. Feynman's Lectures on Physics, Vol II, freely available from http://www.feynmanlectures.info

ACADEMIC INTEGRITY

The academic enterprise is founded on honesty, civility, and integrity. As members of this enterprise, all students are expected to know, understand, and follow the codes of conduct regarding academic integrity. At the most basic level, this means submitting only original work done by you and acknowledging all sources of information or ideas and attributing them to others as required. This also means you should not cheat, copy, or mislead others about what is your work. Violations of academic integrity (i.e., misconduct) lead to the break down of the academic enterprise, and therefore serious consequences arise and harsh sanctions are imposed. For example, incidences of plagiarism or cheating usually result in a failing grade or mark of zero on the assignment or in the course. Careful records are kept to monitor and prevent recidivism. A more detailed description of academic integrity, including the policies and procedures, may be found at http://www.calendar.ubc.ca/okanagan/index.cfm?tree=3,54,111,959. If you have any questions about how academic integrity applies to this course, consult with the instructor.

DISABILITY ASSISTANCE

If you require disability-related accommodations to meet the course objectives, please contact the Diversity Advisor of Disability Resources located in the University Centre, Room 227. For more information about Disability Resources or academic accommodations, please visit the website at: http://students.ok.ubc.ca/drc/welcome.html

Equity, Human Rights, Discrimination and Harassment

UBC Okanagan is a place where every student, staff and faculty member should be able to study and work in an environment that is free from human rights based discrimination and harassment. If you require assistance related to an issue of equity, discrimination or harassment, please contact the Equity Office, your administrative head of unit, and/or your unit's equity representative.

UBC Okanagan Equity Advisor: ph. 250-807-9291; email equity.ubco@ubc.ca

Web: www.ubc.ca/okanagan/equity