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Course Information

A: Division: INSTRUCTIONAL	DATE: <u>May 27, 1997</u>
Bepartment:SCIENCE & TECHNOLOGY	New Course
	Revision of Course Information form: X
	DATED: Nevember 20, 1992
G:PHYS-207 D: Intr	roduction/General Physics II
Subject & Course No.	Descriptive Title Semester Credit
F: Calendar Description: This is a non-calculus I Topics include geometric optics; waves, interfere	
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Per Semester Company L. PHYS ?	107 or Math 12 (C or higher) with either
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K: Maximum Class Size:	
M: Transfer Credit: Granted X	
Granted <u>X</u> Coverie Credit von Gransper Unassigned Credit as Appropriate	Tuetos Tames Tungsiens in
U.B.C. S.F.U. (Attached) I. Vic.	
OTHER:	

Ni Texthooks and materials to be surebooks bicatudents (Use Bibliographic Form):

Cuttnell and Johnson, Physics, Second Edition, Wiley and Sons, 1992.

O. Course Objectives: P. Course Content: O. Method of Instruction:

m. Louise Danaliji.

O. Course Objectives:

The student will be able to

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expansion pressure volume mass mole das constant molecular mass

energy, work, efficiency.

demonstrate as wade relateding of the following assessment considers:

mechanics through the solution of problems:

- 2.1) law of reflection
- 2.2) law of refraction/Snell's law
- 2.3) total internal reflection
- 2.4) mirror equation
- 2.5) lens makers equation
- 2.6) thin lens equation

O. Course Objective (continued)

- 2.19) Ohm's law 2.20) resistance and resistivity 2 211 electric energy and nower
- 2.22)resistor combinations 2.23) Kirchhoff's rules
- capacitor charging 2.24)

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2.40)	thermodynamic processes	
2.41)	efficiency	
2.42)	Carnot cycle	

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P. **Course Content**

Light

Wave nature of light

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	1.4)	Optical devices	1 %	
	1.5)	Polarization of light		

Electricity and Magnetism -

2 431

- 2.1) Electrostatic force and field
 - Electric potential 2.2)
 - 2.3) Capacitance
- 2.4)Direct current circuit elements
- 2.5) Direct current circuit analysis
- Manualla force and field
- Magnetic force applications 2.7)
- Ampere's law 2.8)
- 2.9) Direct current meters
- Flectromagnetic induction 2.10)

P. Course Content (continued)

·-	3.2)	Thermal expansion of solids and liquids
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	3.4)	Heat capacity and latent heats
	3.5)	Heat transfer
	3.6)	Thermodynamics
4. Lab	oratory Ex	periments -
	4.1)	The Spectrometer
	4.2)	Wavelength Determinations
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4.7) Radioactivity

- Motion of Charged Particles in a Magnetic Field 4.8)
- Thermal Linear Expansion of Solids 4.9)

<u>Q.</u> Method of Instruction

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		TRIPA .

М.	_ Transfer Cred	lit
	U.B.C	with 107, Physics 110
r _{es} cerate enterenance	S.F.U	i) Physics 100 and 130 ii) with 107, Physics 100, 130, plus five units unassigned (Physics) iii) with 107 and grades of A or B in both, Physics 101, 102, 130 plus two units unassigned
Ticouract nepartin	U Vic -	with 107. Physics 102*