

COURSE OUTLINE

COURSE: Physics 122

TEACHER: Mr. Finnermore, BSc., Bed. (I may be reached at school at 575-6020)

TEXT: Merrill Physics (Presently out of Print)

EQUIPMENT: pencil, scientific calculator, three ring binder, ruler.

EVALUATION:

- Assignments/Labs/Quizzes 30%
- Tests 40%
- Final Exam 30%

PREREQUISITES: Physics 112, Foundations Math 110

OVERVIEW: This is the second of two sequential Physics courses and is designed for students who have successfully completed Physics 112 or equivalent. Topics covered are: vectors, dynamics II, Newton's laws', applications, momentum and energy, conservation, projectile motion, circular motion, universal gravitation, Kepler's Laws, field theory, electro statics, and electricity. More about the Curriculum can be found at www.gnb.ca/0000/anglophone-e.asp

- (1) Assignments are normally one or two per week. If an assignment is not handed in the relevant test will be worth more. Extensions will be granted for illness (bring a note) or at the discretion of the teacher.
- (2) If you know that you will not be present on the day that an assignment is due, make arrangements with me before that day, **NOT** after.
- (3) If I determine that you are habitually missing assignments, your parents maybe informed by a letter or phone. However, you are a young adult and will be treated with respect. Your schooling is your responsibility and this course is designed to prepare you for university, should you decide to go.
- (4) For full value you must **SHOW ALL YOUR WORK** (an answer is not enough since you will have access to the answers before the assignment is handed in). Give your answer in a **COMPLETE SENTENCE** when doing word problems. Some questions may require you to write more than a single sentence.
- (5) Extra help can be obtained at noon or Monday, Wednesday and Thursday after school.
- (6) School polices will be sent home by synervoice. Paper copies are available by request.

RULES: 1. Do not be late. If you are habitually late you may not be allowed into class when you are late.

2. Have all of the equipment that you need. If you habitually leave needed items in your locker, you may not be allowed to get them.
3. Hand in assignments on time. See above.
4. If you miss a class without a valid excuse you will lose credit for any test or assignment done or due that day.
5. Be polite and respect others and do not talk while I or others are talking.
6. Do not waste class time. This only makes homework more difficult to complete.

TOPICS:	Chapter 6	Vectors	3 weeks
	Chapter 7	2D motion	2 weeks
	Chapter 8	Universal Gravitation	2 weeks
	Chapter 9	Momentum	2 weeks
	Chapter 11	Energy	2 weeks
	Chapter 20	Static Electricity	2 weeks
	Chapter 21	Electric Fields	2 weeks
	Chapter 22	Current electricity	2 weeks
	Chapter 23	Parallel and Series circuits	1 weeks

LABS AND DEMONSTRATIONS

- Chapter 6 - Three forces in equilibrium.
- Chapter 7 - Air table lab in the form of a ramp to view projectile motion.
 - Determine the speed of a marble at the bottom of a ramp using projectile motion.
 - Find the mass of a rubber stopper using centripetal force.
 - Determine the factors effecting the period of a pendulum and the value of “g”
- Chapter 9 - Collide two pucks on an air table to explore conservation of momentum.
- Chapter 22 - Ohm's law.
 - Kettle efficiency vs a beaker on a hot plate.
- Chapter 23 - Create several circuits involving lamps, resistors and bells.

Parent Signature: _____