

**BISHOP MARROCCO/THOMAS MERTON CATHOLIC SECONDARY SCHOOL
COURSE INFORMATION SHEET - STUDENT**



DATE: FEBURARY, 2016
DEPARTMENT HEAD: Mrs. Katrina Leja
TEACHER: Mr. L. Notten

CURRICULUM POLICY DOCUMENT			
COURSE TITLE	Physics	COURSE CODE	SPH 4U
PRE-REQUISITE	Physics, Grade 11, University Preparation	GRADE & TYPE	Grade 12 University Prep
FULL YEAR / SEMESTER	Semester	CREDIT VALUE	1.0

COURSE DESCRIPTION
This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

ASSESSMENT/EVALUATION BREAKDOWN

TERM WORK

KNOWLEDGE AND UNDERSTANDING	15 %
COMMUNICATION	10 %
THINKING AND INQUIRY	15 %
<u>APPLICATION</u>	<u>30 %</u>
TERM TOTAL:	70 %

EXAM/ISU **30 %**

Units of Study

THROUGHOUT	SCIENTIFIC INVESTIGATION SKILLS AND CAREER EXPLORATION
UNIT 1:	DYNAMICS
UNIT 2:	ENERGY AND MOMENTUM
UNIT 3:	GRAVITATIONAL, ELECTRIC, AND MAGNETIC FIELDS
UNIT 4:	THE WAVE NATURE OF LIGHT
UNIT 5:	REVOLUTIONS IN MODERN PHYSICS: QUANTUM MECHANICS AND SPECIAL RELATIVITY

RESOURCES	
TEXTBOOK	Nelson Physics 12
LABORATORY EQUIPMENT	All equipment will be provided.
GENERAL MATERIALS	You will be responsible for bringing to each class: <ul style="list-style-type: none"> • A three-ringed binder with lined notepaper • Scientific calculator (actual calculator, no cell phone/ipod) • Pencil, pen, eraser, ruler • Your completed homework and/or assignments

POLICIES & PROCEDURES	
LABORATORY SAFETY	You will be given explicit instructions on how to work safely in the physics laboratory. Failure to comply with safety procedures will result in your being removed from the laboratory to have a meeting with the Science Department Head and/or the Vice Principal, and you will lose marks for that lab. *Any fooling around during an experiment will result in your being sent directly to the vice principal's office*.
ABSENT FOR A REGULAR CLASS	*You are responsible for collecting all missed work*. The "I wasn't here" is not a valid excuse at university Preparation level. Lessons will progress every day and if you so fall behind, it is up to you to catch up. Check with classmates, the course website and see the teacher to pick up any handouts that you may have missed.
ABSENT FOR A LAB	It is very difficult to make up labs since experiments require equipment that cannot be taken home. If you do miss a lab we will make arrangements for you to make it up, (within reason). Depending on the nature of the lab and the need to keep up with regular classes, it will most likely occur during lunchtime or afterschool.
ABSENT FOR A QUIZ	If you are absent for a quiz, expect to write the quiz on the first day that you are back at school . You may be required to arrange a make-up time to write the quiz (i.e. at lunch or after school). A valid reason must be provided or a mark of 0 will be assigned. Inform the teacher before quiz date if possible to make arrangements ahead of time.
ABSENT FOR A UNIT TEST	If you are absent for a test, you will be required to bring in a doctor's note or parental note explaining the extenuating circumstances under which you were not able to write. Provided a valid note, expect to write the test the first day that you are back at school . You may be required to arrange a make-up time to write the quiz (i.e. at lunch or after school). Inform the teacher before quiz date if possible to make arrangements ahead of time.
LATE ASSIGNMENTS	If you have a legitimate reason for handing an assignment late, it is up to you to discuss the situation with the teacher. A doctor's or parental note may be required. If no legitimate reason is provided, you will be deducted 2% per day for a maximum of 10%. Assignments will receive a mark of 0 if not handed in before the rest of the assignments are returned to the rest of the class. Assignments must still be submitted by the end of the course to ensure successful completion of the course requirements. Incomplete assignments will not be collected.
HOMEWORK	Questions on the unit tests are often very similar to the types of questions assigned for homework, so doing your homework is the <u>best way</u> to prepare for a test or exam.
PLAGIRISM AND CHEATING	Any external references used in assignments must be referenced in a works cited. This includes another person's words, pictures or ideas. If a plagiarism is detected, the student may receive a mark of 0 on the assignment. If a student is caught to be cheating on a text or quiz, they will receive a mark of 0. Cheating includes using any resources not permitted on the test or quiz as well as allowing another student to copy answers.
PERSONAL DEVICES IN CLASS	Cell phones and other personal devices may be used in class for educational purposes as directed by the teacher ONLY. If a student is found to be distracted by their device so as to interfere with their learning or the learning of other students, the student will be sent to administration and/or the device confiscated as per the TCDSB AUP for Technology.