



PHYSICS
Science
Remedial Activities for Secondary V Physics
203-001-50 (all sections)
Summer 2019

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Pre-red)

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| Teaching methods | The material will be presented using a mix of active learning activities, lectures, in-class problem solving, laboratory experiments and demonstrations. Laboratory periods will be used for experiments as well as class tests and lectures. |
| Attendance & participation | <p>Although class attendance is not compulsory, students should make every effort to attend all classes. In the event that a class is missed, the student is responsible for all material covered or assigned during that class. Attendance during laboratory experiments and for class tests is however compulsory. In the rare event that a student for valid reason (<i>e.g.</i> due to an intensive course, illness, <i>etc.</i>) is or anticipates to be absent during a laboratory experiment or for a class test, the student must, where possible, inform the teacher and provide the necessary documents before the absence or, at the latest, on the day of their return. If the absence is excused, students will have the opportunity to complete the assessment.</p> <p>All other assessments (readings, quizzes, lab activities, <i>etc.</i>) missed due to absence are: assigned a grade of zero where the absence is not excused; given zero weight in the calculation of the final grade where the absence is excused.</p> <p>For additional information regarding attendance, students should refer to the Institutional Student Evaluation Policy (ISEP section IV-C).</p> |
| Literacy standards | It is expected that students will be able to comprehend the course material and express themselves appropriately as a normal part of their academic performance in the course. Marks may be deducted for inadequate communication skills. |
| Laboratory work | Experimentation is an essential part of science. Students will be expected to perform experiments and report on their results. Your teacher will provide you with instructions for lab experiments and activities (there is no manual to purchase). Students must be present during the entire lab activity to receive credit. |
| Student conduct | Everyone has the right to a safe and non-violent environment. Students are obliged to conduct themselves as stated in the Student Code of Conduct and in the ISEP section on the roles and responsibilities of students (ISEP section II-D). Disruptions or excessive noise will not be tolerated. Students who do not comply with these rules will be asked to leave the class and may be referred to Student's Services for disciplinary action. Mutual respect is the key to a harmonious learning environment. |
| Academic integrity | Cheating, copying, or any other form of academic dishonesty will not be tolerated. Students should acquaint themselves with the policy of the College on plagiarism and cheating. According to ISEP, the teacher is required to report to the Sector Dean all cases of cheating and plagiarism affecting a student's grade (ISEP section V-C). The usual penalty for the first instance of cheating will be a grade of zero for the piece of work in question to all parties involved (under certain circumstances, even a first offence may be penalized by failure in the course). A second offence may result in the failure of the course. Students should note that using someone else's laboratory data without authorization from the student and the teacher is cheating. |
| Intensive course contacts | If a student is attending an intensive course, the student must inform the teacher, within the first two weeks of class, of the specific dates of any anticipated absences. |
| Policy on religious observance | Students who intend to observe religious holidays must inform their teachers, in writing, within the first two weeks of the semester as prescribed in the ISEP Policy on Religious Observances. (ISEP, Section IV D). This includes any religious holidays that occur during the final exam period. Please refer to the academic calendar for the exact dates. Forms for this purpose are available from your teacher. Your teacher will inform you of any modifications to planned course activities resulting from the teacher's own religious commitments. |

**Course
content**

The material to be covered is contained in the following chapters and sections of the text.

| Weeks | Topics | Chapter & Section |
|-------|--------------------------------------|-------------------|
| 1 | Course introduction and math review | { |
| 1 | Representing motion | Ch.1: 1{6 |
| 1{2 | Motion in one dimension | Ch.2: 1{7 |
| 2 | Vectors and motion in two dimensions | Ch.3: 1{4, 6{8 |
| 2{3 | Forces and Newton's laws of motion | Ch.4: 1{7 |
| 3 | Applying Newton's laws | Ch.5: 1{8 |
| 4 | Energy and work | Ch.10: 1{6, 8 |
| 4{5 | Ray optics | Ch.18: 1{7 |
| 5 | Optical instruments | Ch.19: 1{2 |