

Assignments, quizzes and class tests ^y	55%	35%
Laboratory activities	15%	15%
Final examination	30%	50%

^yYour teacher will provide a detailed breakdown of these components and a tentative test schedule during the first week of class.

In order to pass the course, students must show a basic understanding of the course material at the level covered in the lectures and in the lab. This is achieved by attaining a final grade of at least 60%, calculated according to the evaluation scheme above. **Note: course work not submitted by the due date may be penalized at the teacher's discretion.**

Reference materials

- Your teacher will tell you which **one of the two textbooks** will be used in your section and whether you need an access code or not for the online homework system.
Serway custom package for Dawson College NYB containing excerpts from *Physics for Scientists and Engineers (with Enhanced WebAssign)* by Serway & Jewett, 9th edition;
or
Knight custom package for Dawson College NYB, 2nd edition, containing excerpts from *Physics for Scientists and Engineers (with Mastering Physics)* by Knight, 4th edition.
The custom packages are available at the bookstore and include a semester-long access code for the online homework system. Used textbook generally do not include an access code.
- Library copies:** Copies of the textbook are available on reserve in the Dawson Library.

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

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 (*e.g.* due to an intensive course, illness, *etc.*) 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.

All other assessments (readings, quizzes, lab activities, *etc.*) 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.

For additional information regarding attendance, students should refer to the Institutional Student Evaluation Policy (ISEP section IV-C).

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 421(stiatelyTf 81.9621ateliatelyTf y3end)-384(6shf017)]TJ0 g 0 G

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 offense may be penalized by failure in the course). A second offense 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 observing religious holidays must inform their teachers, in writing, as prescribed in the ISEP Policy on Religious Observances, no later than the end of the second week of the impacted semester or term. This applies both to the semester or term, as well as to any final examination period. (ISEP Section IV-D) 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

Weeks	Topics	Chapter & Section
1{3	Electric fields	Ch.23: 1{7
3{4	Gauss's law	Ch.24: 1{4
4{6	Electric potential	Ch.25: 1{6 (7 & 8 optional)
7{8	Capacitance and dielectrics	Ch.26: 1{4 (5, 6 & 7 optional)
8{9	Current and resistance	Ch.27: 1, 2, 4{6 (3 optional)
9{10	Direct-current circuits	Ch.28: 1{5
11{12	Magnetic fields	Ch.29: 1{4 (5 & 6 optional)
12{13	Sources of the magnetic field	Ch.30: 1{5 (6 optional)
13{14	Faraday's law	Ch.31: 1{5 (6 optional)
15	Inductance	Ch.32: 1, 2 (3{5 optional)
	Alternating-current circuits (time permitting)	Ch.33: 1{9

The material to be covered is contained in the following chapters and sections of **Physics for Scientists and Engineers by Knight, 4th edition**.

Weeks	Topics	Chapter & Section
1	Electric charges and forces	Ch.22: 1{5
2{4	The electric field	Ch.23: 1{6 (7 optional)
5	Gauss' law	Ch.24: 1{6
6{7	The electric potential	Ch.25: 1, 2, 4{7 (3 optional)
7{8	Potential and field	Ch.26: 1{6 (7 optional)
9	Current and resistance	Ch.27: 1{5
10{11	Fundamentals of circuits	Ch.28: 1{9
12{14	The magnetic field	Ch.29: 1{8 (9 & 10 optional)
15	Electromagnetic induction	Ch.30: 1{5 (6{8 optional)
	AC circuits (time permitting)	Ch.32

Comprehensive examination

Second-year students can opt to complete the independent study portion of their comprehensive examination in this course. (This option is not available in continuing education courses.) The project will be evaluated on pass or fail basis independently from the course grade.