



PHYSICS
Science
Waves, Optics & Modern Physics
203-NYC-05 (all sections)
Fall 2016

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Pre-requisites Mechanics (203-NYA-05), Calculus I (201-NYA-05)

Co-requisites Calculus II (201-NYB-05)

Ponderation 3-2-3 (3 hours of lecture, 2 hours of labs, and 3 hours of work outside class per week)

Course objectives

Evaluation

The Institutional Student Evaluation Policy (ISEP) is designed to promote equitable and effective evaluation of student learning and is therefore a crucial policy to read and understand. The policy describes the rights and obligations of students, faculty, departments, programs, and the College administration with regard to evaluation in all your courses, including grade reviews and resolution of academic grievance. ISEP is available on the Dawson website.

There are two grading schemes. **Your final grade will be the higher of the two schemes.**

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

1. **Physics for Scientists and Engineers (with Enhanced WebAssign) by Serway & Jewett, 9th edition** or **Physics for Scientists and Engineers (with Mastering Physics) by Knight, 4th edition**. Custom packages for Dawson College NYC are available at the bookstore which include an access code for the online homework system. Your teacher will tell you which textbook will be used in your section.
2. **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 &

Academic
integrity

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.

Questions outside class All regular day program teachers will be available in their respective offices to their students during