

203-NYA-05 (all sections) Fall 2019

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Pre-requisites	Sec. V Physics 504, Mathematics 506 (or equivalent)		
Co-requisites	Calculus I (201-NYA-05)		
Ponderation	3-2-3 (3 hours of lecture, 2 hours of labs, and 3 hours	s of work ou	tside class for each 5 hours of class time)
Course objectives	The role of this course in the program is two-fold. First, it presents the basic principles of mechanics { kinematics, dynamics, and the three conservation laws (energy, momentum and angular momentum) { which are essential to the study of all the natural sciences. Second, it provides an opportunity for students to develop problem solving skills.		
	The laws and concepts introduced in this course are the foundation of our scienti c view of the world. Ideas about force, motion, energy and momentum arise again and again in all the sciences and in daily life. Understanding them is essential to the education of a scientist or an engineer. In every physics, chemistry, geology and even biology course at college and university, concepts such as energy and momentum, rst learned in mechanics, will be generalized, broadened, deepened and applied.		
	Detailed information regarding the objectives and st criteria is available at https://www.dawsoncollege	andards for . qc. ca/phy	this course and the speci c performance sics/program-documents/science/.
Course competencies	 This course will allow the student to fully achieve the competency: OOUR: Analyze various situations and phenomena in physics using the basic principles of classical mechanics. 1. Describe the translational and rotational motion of bodies. 2. Apply the concepts and laws of dynamics to the analysis of the motion of bodies. 3. Measure the amount of work and energy involved in simple situations. 4. Apply the principles of conservation in mechanics. 5. Verify experimentally a number of laws and principles in mechanics. 		
Evaluation	The Institutional Student Evaluation Policy (ISEP) is designed to promote equitable and e ective evalua- tion 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 nal grade will be the higher of the two schemes.		
	Assignments, quizzes and class tests ^y Laboratory activities Final examination	40% 20% 40%	25% 20% 55%

In order to pass the course, students must show a basic understanding of the course material at the level

Intensive If a student is attending an intensive course, the student must inform the teacher, within the rst two weeks of class, of the speci c dates of any anticipated absences. con icts

Policy on
religiousStudents 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
observance