

PHYSICS Civil Engineering Technology Civil Engineering Physics II 203-923-DW (all sections) Fall 2018

Teacher	Alex Pronine 7A.14, local 4029, pro9physics@gmail.com	
Pre-requisites	Civil Engineering Physics I (203-912-DW)	
Co-requisites	None	
Ponderation	2-1-1 (2 hours of lecture, 1 hour of labs, and 1 hour of work outside class per week)	
Course objectives	This course is designed to provide students in the Civil Engineering Technology Program with physics fundamentals to improve their chances of success in their program. Detailed information regarding the objectives and standards for the competencies related to this course and the speci c performance criteria is available at https://www.dawsoncollege.qc.ca/oad/professional-development/ministerial-program-documents/.	
Course competencies	 This course will allow the student to partially achieve the competency: O1XC: To analyze the structural reactions of engineering works. 1. To examine data on the work. 2. To establish the internal stresses of the structural elements. 3. To determine the strength of structural elements. 4. To determine any deformations in structural elements. 5. To have the analysis results approved. 	
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.	
	Quizzes (6 2.5%)1!Laboratory activities20Class tests (2 15%)30	% 5% 0% 0% the rst week of class.
	In order to pass the course, students must show a basic understanding of the course material at the covered in the lectures and in the lab. This is achieved by attaining a nal grade of at least 60%, calcu according to the evaluation scheme above. Note: course work not submitted by the due date be penalized at the teacher's discretion.	
Reference materials	1. Statics & Strength of Materials, 7th edition, by H.W. Morrow and R.P. Kokernak, Pearson.	
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 & Although class attendance is not compulsory, students should make every e ort 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.

Course content

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

Weeks	Topics	Chapter & Section
1{4	Internal reactions: Stress for axial loads	Ch.10: 1{8 (9 optional)
5{7		,