



**PHYSICS**  
**Physiotherapy Technology**  
**Physics for Physiotherapy Technology**  
203-946-DW (all sections)  
Fall 2018

---

<b>Teacher</b>	Chris Roderick 7A.10, local 4008, croderick@dawsoncollege.qc.ca
<b>Pre-requisites</b>	Secondary IV Mathematics 563-404, Secondary V Physics 553-504
<b>Co-requisites</b>	None
<b>Ponderation</b>	2-3-3 (2 hours of lecture, 3 hours of labs, and 3 hours of work outside class per week)
<b>Course objectives</b>	This course will cover some of the basic concepts of biomechanics. Students will learn the laws governing

**Reference  
materials**

1. Reference texts covering statics and materials can be found at:

**Course  
content**

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

Weeks	Topics	
0{1	Units, Vectors, and math review	
1{3	Forces, static equilibrium, applications to physical rehab	
4{7	Torque, equilibrium, more advanced applications	
8	Physics of solids and biological materials	
9{10	Energy and Power	
11{12	Waves and Sound: Properties of waves, propagation, superposition, resonance, ultrasound therapy, <i>etc.</i>	
13{14	Electricity: Current, voltage, circuits, safety, AC/DC, electrotherapy	
15	Review	

**Note:** The above schedule is tentative.