## Phys102 Physics for Life Sciences I Lecture 1

#### Course Info

- Instructor: Michael Chen
  <a href="http://www.sfu.ca/~mxchen">http://www.sfu.ca/~mxchen</a> → Course webpage
  Office hours (P9442): MWF 11:30am-12:00noon; Fri. 4:00-5:00PM.
- Tutorials: Mandatory (starting next week May 14-16)
- Grading
  - Weekly assignments (written + Mastering Physics): 10%
  - i-cliker quizzes: 5%
  - Tutorial attendance: 5%
  - Midterms: 2 x 20% = 40%
  - Final exam: 40%

Note: No make-up midterms.

- Textbook
  - Giancoli *Physics 6<sup>th</sup> Edition*
  - MasteringPhysics Access Code (included in each new book)

#### **Mastering Physics**

- An online personalized assignment system
  Worth about 5% of your total mark
- Get your access code
  - If you buy a new text book, the access code is included;
  - If you buy a used book, you would need to buy the access code separately.
- Register on line: <a href="http://www.masteringphysics.com/">http://www.masteringphysics.com/</a>
  - Use your SFU computing ID or email address as your login name;
  - Enter your 9-digit SFU ID as your student ID.
  - Our course ID is MPCHEN15176

# Registering your i-clicker online

## iclicker



Have questions about clicker registration? Contact us at <a href="mailto:support@iclicker.com">support@iclicker.com</a> or 866-209-5698.

Thank you for using iclicker! Please complete the form below. Your professor will then be able to give you credit for using your iclicker in class.

First Name	
Last Name	
Student ID	
Clicker ID	

- 1. Go to www.iclicker.com.
- 2. Click "REGISTER."
- 3. Enter these 4 details and click "submit."

#### **IMPORTANT!!**

You MUST enter your 9-digit SFU ID in the STUDENT ID field to ensure proper crediting.

REGISTER AT www.iclicker.com

WEB REGISTRATION

### i-clicker question 1-1

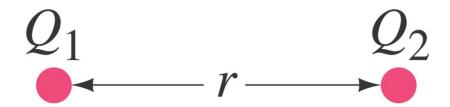
#### I have the following version of Giancoli:

- A) SFU custom edition
- B) 4<sup>th</sup> Edition (Physics for Scientists and Engineers)
- C) 6th Edition (Principles with Applications)
- D) Two of above
- E) None of above

## Things to do before next lecture

- Register to Mastering Physics.
- Get an i-clicker, and register online.
- Check the course calendar and read the sections of textbook to be covered (16-1,2,3,4,5,6,8,9). Be ready for clicker quizzes.
- Attempt assignment #1 (both written and online).
- Print out and read the lecture notes (P102Lec02.pdf).

#### Coulomb's Law



The force is along the line connecting the charges, and is attractive if the charges are opposite, and repulsive if they are the same.

The magnitude of the electric force:

$$F = \frac{1}{4\pi\epsilon_0} \frac{Q_1 Q_2}{r^2}$$
 where  $\epsilon_0 = 8.85 \times 10^{-12} C^2 / N \cdot m^2$ 

**Example 16-4: Electric force using vector components.** 

Calculate the net electrostatic force on charge  $Q_3$  shown in the figure due to the charges  $Q_1$  and  $Q_2$ .

