



**E-Mail:** I will only respond to e-mails sent from a recognized University of Toronto address. Please put PHYC50 in the subject line of any course-related e-mails. I will endeavour to reply as quickly as possible to your e-mails. However, I cannot promise that I will do so outside of normal working hours (Monday-Friday 9-5). Please include your name and student number in any communications. I will not respond to emails if I cannot tell who they are from. Please also note that I will NOT accept assignments via e-mail.

#### **OFFICE HOURS:**

I will be available to answer questions on a drop in basis on Wednesdays between 11:30 and 12:30 in Room SW506H. If you are unable to attend these hours for timetable reasons you may arrange an appointment by e-mail. General questions regarding the lecture material will also be addressed in the Tuesday tutorial.

#### **LECTURE SCHEDULE**

##### **SEPTEMBER 6**

Laplace's equation in 1, 2 and 3D (3.1.1-3.1.4)

##### **SEPTEMBER 11 and SEPTEMBER 13**

Boundary Conditions, Uniqueness and Method of Images (3.1.5-3.2.3)

Separation of Variables (Cartesian) (3.3.1)

##### **SEPTEMBER 18 and SEPTEMBER 20**

Separation of Variables (Spherical) (3.3.2)

Multipole Expansions (3.4.1-3.4.2)

##### **SEPTEMBER 25 and SEPTEMBER 27**

Electric Field of a Dipole (3.4.2-3.4.4)

Polarization, Dielectrics(4.1.1-4.2.1)

##### **OCTOBER 2 and OCTOBER 4**

Bound Charges (4.2.1-4.2.2)

The Electric Displacement (4.2.3-4.4.1)

**OCTOBER 23 and OCTOBER 25**  
**Energy and Forces (4.4.4)**

**NOTES:**

**Due dates and times will appear on the assignment handouts. Late assignments will be penalized by 50% per day. Assignments must be handed in at the tutorial on the day they are due. Assignments handed in later on the same day will be considered 1 day late. Anything received after 6pm the day after the tutorial is 2 days late and will not be accepted.**

**I expect that, in the course of doing your assignments, you will discuss**