E-Mail: Please put PHYB21 in the subject line of any course-related e-mails. I will endeavour to reply as quickly as possible to your e-mail. 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 Fridays between 11:30 and 12:30 in Room SW504E. If you are unable to attend these hours for time table reasons you may arrange an appointment by e-mail. Gene

FEBRUARY 27 and MARCH 1
Capacitance (2.5.4)
Magnetic Fields, Lorentz Forces (5.1.1-5.1.2)

MARCH 6 and MARCH 8
Currents, Biot-Savart Law (5.1.3-5.2)
Divergence and Curl of B, Ampere's Law (5.2.1)

MARCH 13 and MARCH 15
Ampere's Law cont'd (5.3.1-5.3.3)
Magnetic Vector Potential (5.4.1-5.4.3)

MARCH 20 and MARCH 22
Magnetostatic Boundary Conditions (5.4.2)
Ohm's Law, Electromotive force, Motional EMF (7.1.1-7.1.3)

MARCH 27 and MARCH 29
Electromagnetic Induction, Induced Fields (7.2.1-7.2.2)
Inductance, Energy Stored in Magnetic Fields (7.2.3-7.2.4)

APRIL 3 and APRIL 5
Maxwell's Equations (7.3.1-7.3.3)
Extra tutorial

ASSESSMENT:

A COMPREHENSIVE FINAL EXAM (3 hrs) : 50%

MIDTERM TEST (90 minutes) : 21%

4 ASSIGNMENTS (tutorial and take home work): 20% in total

3 TUTORIAL PRACTICALS/QUIZZES : 9% in total

TESTS AND EXAM:

Both the midterm and final exam will draw from lecture and tutorial materials.

NOTES:

One of the main problems students seem to have when taking electromagnetism for the first time arises because much of the mathematics is unfamiliar to them. The study of electromagnetism requires the use of