

# Physics II for the Physical Sciences

PHY A21 - Summer 2018

Tuesday 10:00 am - 12:00 pm MW 110 Social Sciences Building

Thursday 10:00 am - 11:00 am MW 120 Social Sciences Building

$$\begin{array}{r} 2 \\ 6 \\ 4 \\ 3 \end{array} \begin{array}{l} r \\ r \\ r \\ r \end{array} \begin{array}{l} E \\ B \\ E \\ B \end{array} = \begin{array}{l} 0 \\ 0 \\ \frac{\partial B}{\partial t} \\ + \frac{\partial E}{\partial t} \end{array} \begin{array}{l} 3 \\ Z \\ Z \\ 5 \end{array} \quad \therefore \text{and there was light.}$$

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Phone Number:

## Course Requisites & Required Materials

Course Corequisite: Calculus II (MATA35/36/37)

Course Pre-requisites: Introduction to Physics IA (PHYA10), Calculus I (MATA30/31 )

Textbook: Physics for Scientists and Engineers by Randall D. Knight (Pearson, 4th Ed.)

The schedule provided at the end of this document indicates the readings you must complete before each lecture. The reading quizzes and in-class participation will be based on these assigned readings.

Your first time reading the assigned material does not need to be highly detailed. Focus on the main concepts, read one or two examples, and browse quickly through any derivations. This first reading will be the assumed starting point for all lectures. Therefore, failing to complete the readings and associated reading quizzes will impair your ability to understand our lecture discussions.

The textbook also provides the conceptual questions and detailed problems that will be the subject of the weekly online homework and practical work.

Additionally, please note that you will need an access code MasteringPhysics, either through a bundled textbook or bought separately from the bookstore, in order to access and complete the weekly reading quizzes and homework.

Automated Student Response System: i>clicker or i>clicker+ by Macmillan

You will need a clicker to answer the in-class participation quizzes. To receive the participation mark you must register your clicker by



Final Examination (35%)

## Academic Integrity and Respect for the Academic Endeavor

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong sign of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters:

[http://www.governingcouncil.utoronto.ca/policies/be\\_haveac.htm](http://www.governingcouncil.utoronto.ca/policies/be_haveac.htm)

outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments: Using someone else's ideas or work without appropriate acknowledgment; submitting your own work in more than one course without the permission of the instructor; making up sources or facts; obtaining or providing unauthorized assistance on any assignment; using someone else's clicker or multiple clickers for participation grades.

On tests and exams: Using or possessing unauthorized aids; looking at someone else's answers during an exam or test; misrepresenting your identity.

In academic work: Falsifying institutional documents or grades.

## Class Schedule

This schedule is tentative and might change during the term in order to accommodate for variations in the lecture discussions in response to student performance and understanding of the various topics.

Please note that it is your responsibility to read the assigned sections and chapters before each lecture.

The lecture discussions will not be a direct repetition of the basic material found in the textbook.

Failing to complete the readings before each lecture will hinder your ability to understand the class discussions, as a minimum understanding of the basic concepts is