

PHY138Y1Y: Physics for the Life Sciences I

"Physics is the universe's operating system."

-- Steven R. Garman

People of PHY138

- Instructors
 - Dr. David Harrison (Mechanics)
 - Dr. Jason Harlow (Waves)
 - Prof. Kimberly Strong (Electricity & Magnetism)
 - Prof. Tony Key (Nuclear and Radiation)
- Technologists
 - Larry Avramidis
 - Howard Okada
 - Phil Scolieri
 - Rob Smidrovskis
 - Greg Vowles

People of PHY138 - continued

- Undergraduate Administrative Assistant
 - April Seeley
- Teaching Assistants
 - 13 Tutors & 30 Lab Demonstrators
- Lab Coordinator
 - Dr. Vatche Deyirmenjian (MP124)

Dr. David Harrison

- PhD – U. of T. – Elementary Particle Physics
- Professional Interests:
 - Foundations of Physics
 - Physics Education Research

Doing Well at University

- Time Management is very important.
- Take responsibility for yourself.

Tutorials: No Marks for Attendance, Participation, etc.

Last year the tutors reported on tutorial attendance:

	Average Final Mark in PHY138
0: never or hardly ever attended	63
1: attended some but not all	68
2: attended most or all	74

This was only for our interest, not for marks!

Doing Well at University

- Time Management is very important.
- Take responsibility for yourself.
- Consider joining or forming a study group.
- When problems or questions arise, contact the prof, TA, etc.
 - Ignored problems do not go away, they just get worse!

About Learning Physics 1

There are only a few powerful *concepts*.

- Once you understand the concepts, their application to numerical problems is easy!
- Memorising formulas is not a good learning strategy.

In PHY138, tests and exams will tend to emphasise concepts.

About Learning Physics 2

Each concept builds on previous ones.

Assimilating any powerful concept takes time.

- Keep up with your studies.
- The "last minute cram" before a test or exam is unlikely to help.

Imagine you are taking a course on Shakespeare:

- The course is discussing *Hamlet*.
- You have not read the play.
- The professor asks:

"But why didn't Hamlet obey the ghosts, and thus save seven of the eight lives?"



Bring:

- Your "clicker" to every class.
- **Student Workbook** to every tutorial.

Assignments:

- By Wednesday's class: Read Chapter 1 of the textbook.
- Establish your *MasteringPhysics* (MP) account now.
- By Monday Sept. 18 at 10AM: Finish:

Pre-Class Quiz Q1 Chaps 02-04

on MP.

After This Class

- I will be pleased to talk to you
- First, we have to take down all the computers etc. we have used in class today
- In about 5 minutes I will be right outside the door closest to “stage right” which is on your left

Please do not come up on to the stage. We have to “strike the set” and get out of here! I *will* be available in ~ 5 minutes