Welcome to Physics

How will you learn?

• “Formal” teaching situations (7 hours)
  – three lectures (120 – 250 students)
  – one 1-hour tutorial (20–25 students)
  – one 3-hour laboratory w’shop (14–16 students)

• Your other time (~ 4-5 hours)
  – Reviewing lectures & working with textbook
  – Preparing for tutorials and labs
  – Solving problems
  – Working in study groups

Lectures

• Stimulus for your learning
• Demonstrations galore
• Overview of the important concepts—a briefing session
• Underpinning for your learning—send you out with work to do!
• Lectures are only ~25% of your physics learning time!

Demos galore!
• First semester, 640-111, 131, 171 is assumed knowledge for each of 640-112, 132, 172, but this could be acquired in a number of ways!
  – If you have not completed these subjects …
    • Read the mechanics and waves sections of your text.
    • Understand link between force and change in motion.
    • Use the First-Year Learning Centre.

• Available from the Bookroom
  • 640-112 and 640-132
    – Knight, R
      *Physics for Scientists and Engineers – a Strategic Approach (with Modern Physics)*
    – Includes access code to *MasteringPhysics*

• Available from the Bookroom
  • 640-172 and 640-182
    – Knight, R, Jones, B and Field, S
      *College Physics – a Strategic Approach*
      Pearson (2007)
    – Includes access code to *MasteringPhysics*
**Tutorials**

• Begin in week 2 of the semester
• Time for students to:
  – Ask questions
  – Grapple with ideas
  – Practise solving problems
  – Discuss/argue/express your ideas about the physics you learn
  – Work with other people—learn from them, and help them learn

**Laboratory classes**

• Begin in week 2 of the semester (weeks 2 or week 3 for 640-172)
• Time for students to
  – Learn physics hands-on
  – Develop problem solving skills
  – Improve your communication
  – Learn with other people

**Where are tutorials & labs?**

- Redmond Barry Building
- Theatre A
- Elisabeth Murdoch

Where are tutorials & labs?

Hercus & Labytheatres
Physics Building
Redmond Barry Building

enter via ramp

Tutes, Level 2
Labs, Levels 3 & 4

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Tutes, Level 2
Labs, Levels 3 & 4

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Tutes, Level 2
Labs, Levels 3 & 4

Where are tutorials & labs?
Laboratory classes

- 640-112 & 132 rotate through lab clusters
- Take lab manual and notebook
- On sale next week … or on the web

Lab Manuals

- Available from the First-Year Labs, level 3
  
  **Tuesday 28 July - Friday 31 July**
  
  11.30 pm – 2.30 pm

  - The cost is:
    
    | Item                  | Price |
    |-----------------------|-------|
    | Lab manual            | $15   |
    | Physics 1 notebook    | $5    |

  - Will also be available on the web

How will you be assessed?

- 60% End-of-semester three-hour examination
- 10% Feedback tests carried out during lectures
  - Week 4
  - Week 10
- 5% Assignment (week 8)
- 25% Laboratory work, including seminars for 640-172 and 640-182
Lab Assessment

112/132 172/182

- Labwork:
  - prelab, workshop & experiment, logbook records 25% 20%
- Seminar 5%

Support

- Problems with learning what you need to?
  - Make sure you are reviewing lectures, reading text, doing problems …
  - Use tutorials well
  - Visit the Physics First-Year Learning Centre 12.30 - 2.30 Tuesday - Friday from Week 2
  - Make an appointment to see your tutor
  - Language and Learning Skills Unit
  - See your lecturer
  - See the Director of First-Year Studies!

If you must miss a class

- A lab class?
  - take a medical certificate or other supporting evidence to the Teaching Administration Officer, Mr Colin Entwisle.

- A test?
  - medical certificate or other supporting evidence to the Teaching Administration Officer, Mr Colin Entwisle.
  - Arrange to sit the test at another time.
**Feedback to us**

- In all cases talk to the person involved first—tutor, demonstrator, lecturer
- See the Director of First-Year Studies
  - Michelle Livett
- Staff-Student Liaison Committee
  - Representative from each class
  - Meets twice per semester

**If the absence lasts ...**

- If your absence lasts for an extended period of time you should:
  - Keep your tutor, Director of First Year Studies and Student Centre informed.
  - Apply for special consideration.
  - If it’s very extended, consider withdrawal, but PLEASE ask for advice first!

**Changing Timetable**

- Use Alloc8 by following the links from the “How to …” Directory
- Problems?
  - Email using the links on the Alloc8 page, or the sessions advertised via Science

**More information?**

- More information?
- Hercus & Laby theatres
- Physics Building
- Redmond Barry Building
- Latham (level 1)
- Rivett (level 2)
- Lyle (level 1)
- Theatre A, Elisabeth Murdoch
- physics.unimelb.edu.au
- enter via ramp
Finding people

- Teaching administrator, Colin Entwisle
  - Physics Podium, room 3.11
  - First-Year Learning Centre from 10 March

- Academic matters?
  - Michelle Livett – Room 207
  - or if it’s a lab query,
    - Martin Sevior – Room 501