Welcome to Physics

Strong interest in physics, with a desire for a deeper, more rigorous approach.

Thinking about a major study in physics, or recognise that a sound understanding will support your other studies.

Want or need to fill a gap in your physics background.

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!
demonstrations galore!

Where are your lectures?

Hercus & Laby theatres

Physics Building

Latham (level 1)

Redmond Barry Building

Rivett (level 2)

Lyle (level 1)

Theatre A

Elisabeth Murdoch

Textbook

- Available from the Bookshop
- 640-111/2 and 640-131/2
  - Knight, R
  - Physics for Scientists & Engineers
  - A Strategic Approach
    (1st edition OK)
  - Includes access code to
    MasteringPhysics and ebook

Textbook

- Available from the Bookroom
- 640-171
  - Knight, R, Jones, B and Field, S
  - College Physics – a Strategic Approach
  - 2nd edition, Pearson, 2010
    (1st edition OK)
  - Includes access code to
    MasteringPhysics and ebook
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

Where are tutorials & labs?

- Hercus & Laby theatres
- Physics Building
- Redmond Barry Building
- Latham (level 1)
- Rivett (level 2)
- Lyle (level 1)

Lab: Tutes, Level 2
Labs: Levels 3 & 4

up the ramp to tutorials and labs
entry and noticeboards

Laboratory classes

• Begin in week 3 of the semester
• Time for students to:
  – Learn physics hands-on
  – Develop problem solving skills
  – Improve your communication
  – Learn with other people
Laboratory classes

• 640-111 & 131 rotate through labs
  - Mechanics
  - Optics
  - Waves

• Take lab manual and notebook
• On sale from the Melbourne University bookshop, from week 2 ... or on the web

Laboratory classes

• 640-171 labs shadow lectures
  • Starts with
    – Introduction to Linear Motion
  • Take lab manual and notebook
    – On sale from the Melbourne University bookshop, from week 2 ... or on the web

How will you be assessed?

• 60% End-of-semester three-hour examination
• 10% Two tests carried out during lectures
  • Week 4
  • Week 10
• 5% Assignment, due week 8
• 25% Laboratory work

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.
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 Monday - Thursday from Week 2
  – Make an appointment to see your tutor
  – Science 101 - don’t forget, starts Week 3
  – Academic Skills Unit
  – See your lecturer
  – See the Director of First-Year Studies!

Changing subjects

• According to guidelines?
  – Use the Student Portal

• Against the guidelines?
  – Seek permission by:
    • filling in form available near First-Year Learning Centre
    • visiting Director of First-year Studies for discussion and signature
  – Go to your Student Centre

Changing Timetable

• Use Alloc8 and its EDIT function
• Having trouble?
  Email using the further enquiries link
  Visit the Eastern Precinct Student Centre,
  10 am – 4 pm, till 12 March
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

More information?

- Teaching administrator, Colin Entwisle
  - Physics Podium, room 3.11
    - First-Year Learning Centre from 8 March
- Academic matters?
  - Michelle Livett – Room 207
  - Martin Sevior (lab) – Room 501

Finding people

- Staff-Student Liaison Committee
  - Representative from each class