

Physics 101 Reading Assignments

PHY 101: Concepts in Physics

Conceptual foundations of physics emphasizing key experiments.

• MECHANICS

1. 8/31

What is physics? Law of inertia. Acceleration.
Course Pack Week 1
Bloomfield, Sec 1.1 and 1.2

2. 9/7

Newton's laws of motion. Calculus.
Course Pack Week 2
Bloomfield, Sec 3.1, 3.2, 3.3

3. 9/14

The solar system
Course Pack Week 3

4. 9/21

Energy
Course Pack Week 4
Bloomfield, Sec 1.3

• GASES AND LIQUIDS

5. 9/28

Density and pressure; buoyancy
Course Pack Week 5 (to 5.6)
Bloomfield, Sec. 4.1, 4.2

• ELECTRICITY AND MAGNETISM

6. 10/5

Electric charges and the electric force
Course Pack Week 6
Bloomfield, Sec 8.1 and 8.2

7. 10/12

Electric current
Course Pack Week 7
Bloomfield, Sec. 9.1

8. 10/19

Magnetism
Course Pack Week 8
Bloomfield, Sec. 8.3

9. 10/26

Electromagnetism
Course Pack Week 9
Bloomfield, Sec 9.2

10. 11/2

Electric Power
Course Pack Week 10

• LIGHT

11. 11/9

Properties of Light
Course Pack Week 11
Bloomfield, Sec 12.1, 12.2

• MODERN PHYSICS

12. 11/16

Quantum theory
Bloomfield, Sec 12.3

13. 11/23

Nuclear Physics
Course Pack Week 14
Bloomfield, Sec 14.1, 14.2, 14.3

14. 11/30

Elementary particle physics

15. 12/7