

PHYSICS

Reference
materials

1. Physics for Scientists and Engineers (with Enhanced WebAssign) by Serway & Jewett, 9th edition or Physics for Scientists and Engineers (with Mastering Physics) by Knight, 4th edition

**Course
content**

The material to be covered is contained in the following chapters and sections of **Physics for Scientists and Engineers by Knight, 4th edition**.

Weeks	Topics	Chapter & Section
1	Concepts of motion	Ch.1: 1{8
1{2	Kinematics in one dimension	Ch.2: 1{6 (7 optional)
2{3	Kinematics in two or three dimensions (including circular motion)	Ch.3: 1{4; Ch.4: 1, 2, 4{6
3{4	Dynamics in one dimension	Ch.5: 1{7; Ch.6: 1{4, 6 (5 optional)
4	Newton's laws	Ch.7: 1{5
5	Dynamics in two dimensions	Ch.8: 1{5
5	Work and kinetic energy	Ch. 9: 1-6
6	Energy	