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	Ch.3: 1{4; Ch.4: 1, 2, 4{6
	circular motion)	
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	