Ph 1a Fall 2011

Course Calendar

Week 1

9/26	Mon	**Required Reading**: Frautschi Chapter 1
9/27	Tues	**Suggested Reading**: Feynman Vol. I Chapters 1, 2, 8
9/28	Wed	**Lecture #1**: Introduction
		HW #1: QP1, QP17; Frautschi Chapter 3, problems 10, 13
9/29	Thurs	**Required Reading**: Frautschi Chapter 2
9/30	Fri	**Lecture #2**: Falling bodies, derivatives

Week 2

10/3	Mon	**Required Reading**: Frautschi Chapters 3, 4
10/4	Tues	**Suggested Reading**: Feynman Vol. I Chapter 11
10/5	Wed	**Lecture #3**: Integrals and Intertia
		HW #2: QP9, QP43; Frautschi Chapter 4, problems 17, 20
		HW #1 due
		Quiz #1 handed out
10/6	Thurs	**Required Reading**: Frautschi Chapter 5
10/7	Fri	**Lecture #4**: Vectors

Week 3

10/10	Mon	**Required Reading**: Frautschi Chapter 6
		Quiz #1 due
10/11	Tues	**Suggested Reading**: Feynman Vol. I Chapters 9, 7
10/12	Wed	**Lecture #5**: Newton's laws
		HW #3: QP3, QP4; Frautschi Chapter 7, problems 16, 17
		HW #2 due
10/13	Thurs	**Required Reading**: Frautschi Chapter 7
10/14	Fri	**Lecture #6**: Gravitation & circular motion

Week 4

10/17	Mon	**Required Reading**: Frautschi Chapter 8
10/18	Tues	**Suggested Reading**: Feynman Vol. I Chapter 12
10/19	Wed	**Lecture #7**: Forces of Nature
		HW #4: QP20, QP21, QP28; Frautschi Chapter 9, problem 6
		HW #3 due
		Quiz #2 handed out
10/20	Thurs	**Required Reading**: Frautschi Chapter 9
10/21	Fri	**Lecture #8**: Non-Inertial Frames

Week 5

10/24	Mon	**Required Reading**: Frautschi Chapter 10
		Quiz #2 due
10/25	Tues	**Suggested Reading**: Feynman Vol. I Chapters 4, 13, 14
10/26	Wed	**Lecture #9**: Energy
		HW #5: Frautschi Chapter 10, problems 11, 25, 28, 32
		HW #4 due
10/27	Thurs	No reading required
10/28	Fri	**Lecture #10**: Conservation of Momentum

Week 6

10/31	Mon	**Required Reading**: Frautschi Chapter 11
11/1	Tues	**Suggested Reading**: Feynman Vol. I Chapters 10, 21, 23, 24
11/2	Wed	**Lecture #11**: Oscillatory Motion
		HW #6: FP2, FP10, QP6, QP23
		HW #5 due
		Quiz #3 handed out
11/3	Thurs	**Required Reading**: Frautschi Chapter 12
11/4	Fri	**Lecture #12**: Oscillatory Motion

Week 7

11/7	Mon	**Required Reading**: Frautschi Chapter 13
		Quiz #3 due
11/8	Tues	**Suggested Reading**: Feynman Vol. I Chapters 18, 19, 20
11/9	Wed	**Lecture #13**: Angular Momentum
		HW #7: FP5, FP8, QP15, QP16
		HW #6 due
11/10	Thurs	**Required Reading**: Frautschi Chapter 14
11/11	Fri	**Lecture #14**: Rotation of Rigid Bodies

Week 8

11/14	Mon	No reading required
11/15	Tues	**Suggested Reading**: Feynman Vol. II Chapters 40, 41
11/16	Wed	**Lecture #15**: Fluid Mechanics
		HW #8: FP3, FP11, FP17
		HW #7 due
		Quiz #4 handed out
11/17	Thurs	**Required Reading**: Frautschi Chapter 16
11/18	Fri	**Lecture #16**: Kepler's Laws

Week 9

11/21	Mon	**Required Reading**: Frautschi Chapter 17
		Quiz #4 due
11/23	Wed	**Lecture #17**: Solving the Kepler Problem
		HW #9: FP4, FP6, FP12, FP18
		HW #8 due
11/24	Thurs	**THANKSGIVING HOLIDAY**
11/25	Fri	**THANKSGIVING HOLIDAY**

Week 10

11/28	Mon	**Required Reading**: Frautschi Chapter 15
11/30	Wed	**Lecture #18**: Gyroscopes
		HW #9 due; no new homework
		Final Exam handed out
12/2	Fri	**No lecture**

Week 11

12/7	Wed	**Final Exam Due** at NOON, box outside 201 E Bridge.

WINTER RECESS, December 10 - January 3