MASSACHVSETTS INSTITVTE OF TECHNOLOGY

Classical Mechanics 6.946, 8.351, 12.620

Week 4:

 Assignment: Due 4 October 2002
    Exercises: 2.1, 2.2, 2.3a, 2.3b, 2.4, 2.5, 2.6

    The project on the double pendulum, exercise 1.36,
       is also due 4 October 2002.

 Read: Section 1.8

 8: Conserved quantities

Read: 2.1, 2.2, 2.3, 2.4, 2.5
 9: Kinematics of rigid bodies, Moments of inertia

Read: 2.6, 2.7
10: Generalized coordinates for rigid bodies

Week 5:

 Assignment: Due 11 October 2002
    Exercises: 2.11 2.12, 2.13

    Begin project 2.21, on the rotation of Mercury, which
     will be due on 18 October 2002.

Read: 2.8, 2.9
11: Motion of a free rigid body

Read: 2.10
12: Axisymmetric top

Read: 2.11, 2.12
13: Spin-orbit coupling

Week 6:

 Assignment: Due 18 October 2002
    Exercises: 3.1, 3.3, 3.4, 3.5, 3.6

Read: 3.1 up to 3.1.1
14: Hamilton's equations

Read: 3.1.1
15: Legendre transformation