

## Class Schedule and Assignments

### Unit 1: Classical Mechanics

- August 27, Wednesday **Topic: One-Dimensional Kinematics**  
**Read:** Preface to the Student, Chapter 1, 2-1, 2-2, 2-3  
**Assigned Problems:** A1, A2, A5, A6; **CH 1:** 39; **CH 2:** 7, 15, 19, 23, 25, 49, 51
- August 28, Thursday **Topic : Introduction to Programming in Python and VPython**
- August 29, Friday **Topic: Problem Session**
- September 1, Monday **Topic: Two- and Three-Dimensional Motion**  
**Read:** 3-1, 3-2, 3-3, 3-6  
**Assigned Problems:** A7, A8; **CH 3:** 6, 8, 15, 21, 23, 25, 33, 45, 51
- September 3, Wednesday **Topic: Newton's Laws**  
**Read:** Chapter 4  
**Assigned Problems:** A12; **CH 4:** 5, 11, 15, 27, 29, 37, 41, 45, 61
- September 4, Thursday **Topic: Computer Modeling of Motion**
- September 5, Friday **Topic: Problem Session**
- September 8, Monday **Topic: Newtonian Dynamics**  
**Read:** Chapter 5  
**Assigned Problems:** A15, A16; **CH 5:** 3, 9, 13, 19, 23, 25, 35, 37, 42
- September 10, Wednesday **Topic: Work and Energy**  
**Read:** Chapter 6  
**Assigned Problems:** A18; **CH 6:** 2, 6, 11, 13, 19, 25, 29, 31, 41, 47, 49, 53
- September 11, Thursday **Topic: Computer Modeling**
- September 12, Friday **Topic: Problem Session**

- September 15, Monday    **Topic: Conservation of Mechanical Energy**  
**Read:** Chapter 7  
**Assigned Problems:** A19, A20, A21, A22, A23; **CH 7:** 1, 9, 10, 17, 25, 65a
  
- September 17, Wednesday **Topic: Momentum Conservation**  
**Read:** 9-2 through 9-6  
**Assigned Problems:** A26, A27, A28; **CH 9:** 5, 8, 9, 19, 21, 23, 27, 31, 47
  
- September 18, Thursday **Topic: Computer Modeling**
  
- September 19, Friday      **Topic: Problem Session**
  
- September 22, Monday    **Topic: Classical Mechanics Problem Solving and Review**
  
- September 24, Wednesday **Topic: Group Exercise**
  
- September 25, Thursday **TEST 1**

### Hand-In Problems

1. Due Monday, September 1, 4:30 pm  
A4; **CH 2:** 18, 22, 26, 50
  
2. Due Monday, September 8, 4:30 pm  
A9, A10; **CH 3:** 22, 34, 52; **CH 4:** 16, 30, 48
  
3. Due Monday, September 15, 4:30 pm  
A14, A17; **CH 5:** 12, 36, 40; **CH 6:** 20, 22, 30, 40, 50
  
4. Due Monday, September 22, 4:30 pm  
A24, A25, A29; **CH 7:** 22, 26, 64; **CH 9:** 22, 26, 32, 48