Final Exam Review
Final Exam Date, Time, and Layout

- Saturday, Dec. 13, 11 am - 1 pm
- Multiple choice ~ 30 questions
- Long Answer - 3 multi-part questions
- Worth 20% of your grade
Details

• The exam is cumulative and covers Volume C and Volume N

• The multiple choice and long answer questions will not be taken from the homework or two minute problems.

• They may be similar, but they won’t be exactly the same as any other problems you’ve seen.
How to Study

• Review Exam 1 and Exam 2 - solutions will be posted on the web.

• Review HW problems

• Focus on later chapters in each volume for long answer questions

• Study two minute conceptual problems - multiple choice will be similar

• Questions on N12 and N13 will not be on the final
**Topics that may be on final**

**Unit C: Conservation Laws**  
Constrain Interactions

- C1: Introduction to Interactions
- C2: Vectors
- C3: Interactions Transfer Momentum
- C4: Particles and Systems
- C5: Applying Momentum Conservation
- C6: Introduction to Energy
- C7: Some Potential Energy Functions
- C8: Force and Energy
- C9: Rotational Energy
- C10: Thermal Energy
- **C11: Energy in Bonds**
- C12: Power, Collisions, and Impacts
- C13: Angular Momentum
- C14: Conservation of Angular Momentum

**Unit N: The Laws of Physics are Universal**

- N1: Newton's Laws
- N2: Vector Calculus
- N3: Forces from Motion
- N4: Motion from Forces
- N5: Statics
- N6: Linearly Constrained Motion
- N7: Coupled Objects
- **N9: Noninertial Reference Frames**
- N10: Projectile Motion
- N11: Oscillatory Motion
- **N12: Introduction to Orbits**
- N13: Planetary Motion