

Course Information Physics 121, Spring 2008

Time Table

| Date | Topic | Chapter |
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| January 17 | Introduction, Units, Error Analysis. | 1 |
| January 22 | Pre Test | |
| January 22 | Motion (velocity and acceleration) in 1D. | 2 |
| January 24 | Vectors. | 3 |
| January 29 | Motion in a plane, Projectile Motion. | 3 |
| January 31 | No Class | |
| February 5 | Circular Motion, Newton's First Law. | 3 + 4 |
| February 7 | Newton's Second and Third Law. | 4 |
| February 12 | Friction. | 5 |
| February 14 | Gravity, Newton's Law of Gravity, Potential Energy. | 6 |
| February 19 | Planetary Motion, Kepler's Law. | 6 |
| February 21 | Work and Energy (Constant and Variable Force). | 7 |
| February 26 | Kinetic and Potential Energy. | 7 + 8 |
| February 28 | Midterm Exam # 1 | |
| February 28 | Conservation of Energy. | 8 |
| March 4 | Conservative and Non-Conservative Forces. | 8 |
| March 6 | Center of Mass, Linear Momentum, Conservation of Momentum. | 9 |
| March 18 | Elastic and Inelastic Collisions in 1D. | 9 |
| March 20 | Collisions in 2D. | 9 |
| March 25 | Midterm Exam # 2 | |
| March 25 | Rotational Motion. | 10 |
| March 27 | Rotational Kinetic Energy, Inertia, Torque. | 10 |
| April 1 | Rotational Kinetic Energy, Torque. | 10 |
| April 3 | Angular Momentum. | 11 |
| April 8 | Conservation of Angular Momentum. | 11 |
| April 10 | Equilibrium. | 12 |
| April 15 | Harmonic Motion, Damped Motion. | 14 |
| April 17 | Temperature, Heat. | 17 |
| April 22 | Midterm Exam # 3 | |

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| April 22 | Kinetic Theory of Gases, Ideal Gas, Mean Free Path. | 18 |
| April 24 | First Law of Thermodynamics, Heat Capacity, Equipartition of Energy. | 19 |
| April 29 | Post Test | |
| April 29 | Second Law of Thermodynamics. | 20 |
| May 8 | Final Exam | |