WINTHROP UNIVERSITY PHYS 101 Course Syllabus Department of Chemistry, Physics, Geology and the Environment

| Day of the week | Date | Chapters | Topics | Assignments |
|--------------------|-----------------------|----------|--|-------------|
| Tuesday | March 4 | Chap.1 | Energy, Scientific Method, Feynman on Scientific Method, Scope of Physics, and Measurement. | |
| Thursday | March 6 | Chap.2 | Speed, Velocity, Acceleration, Graphing Motion: Position VS. Time, Velocity VS. Time, and Kinematic Equations. | Quiz 1 |
| Tuesday | March 11 | Chap.3 | Acceleration due to gravity, Falling Objects: Aristotle VS. Galileo, Reaction Time, and Projectile | |
| Thursday | March 13 | Chap.4 | History: Aristotle, Galileo, & Newton; Newton's Laws of motion, Mass VS. Weight, and Free- Body diagram. | Quiz 2 |
| Tuesday | March 25 | Exam 1 | Chapters 1-4 | |
| Thursday | March 27 | Chap.5 | Circular Motion: Centripetal Force, Planetary Motion: Kepler's laws & Newton's law of universal gravitation. | No Quiz |
| Tuesday | April 1 | Chap.6 | Work, Power, Kinetic Energy, Potential Energy: Gravitational & Elastic, Conservation of Energy, and Energy Transformations. Horsepower. | |
| Thursday | April 3 | Chap.7 | Momentum, Impulse, Conservation of Momentum, and Collisions. | Quiz 3 |
| Tuesday | April 8 | Chap. 8 | Rotational Motion: Torque, Rotational Inertia, Center of Mass, Angular Momentum, & Conservation | |
| Thursday | April 10 | Exam 2 | Chapters 5-8 | |
| Tuesday | April 15 | Chap. 10 | Temperature, Heat, Specific Heat, Calorimetry, Methods of heat transfer, Gas Laws, and Heat Engines | |
| Thursday | April 17 | Chap.12 | Electric Charge, Conductors & Insulators, Coulomb's law, Electric field, and Electric potential. | Quiz 4 |
| Tuesday | April 22 | Exam 3 | Chapters 10-12 | |
| Thursday | April 24 | Chap.13 | Electric Current, Resistance, Ohm's law, Electric circuits: Series & Parallel, Class evaluations, Electric power & energy, DC vs.AC, Household circuits, and Cost of Electricity. | |
| Thursday | April 30- 11:30 am | | Final exam | |