Reading assignments specify the material to be covered that day in class; problem assignments should be worked after that class has occurred. You may work with others on the assigned problems, but no more than three people should work together at one time. Feel free to discuss the problems with your professor, lab manager, or with any of the teaching assistants. There also will be regular PALG sessions run by Maddie White.

Only underlined problems are to be turned in. Each is due at the beginning of the class after the date it appears on the syllabus. Homework problems turned in late will not be accepted without a dean’s excuse. Be sure to show how you arrived at your answer, explaining each step using complete sentences. Homework showing only an answer will not receive any credit. Solutions to problems turned in for grading will be posted on Lyceum at https://lyceum.bates.edu/login/index.php the afternoon of the day they are due. Solutions for the other problems are in the Solution Manuals.

Note that there are two sections at the end of each chapter: one is Questions and the other is Problems. The assignments below are from the Problems section, NOT from the Questions section.

Wed Sept 3 Introduction to Physics 107 – 108; Standards of Measurement; Units.  
Read: Chapter One, Sections 1.1 – 1.6, 1.8.  
Do Problems: 1.27, 1.33, 1.41, 1.53  
No Lab This Week.

Fri Sept 5 Vectors; Vectors in Cartesian and Polar Coordinates, the Scalar Product.  
Read: Chapter Two, Sections 2.1 – 2.4, 2.6 – 2.15.  
Do Problems: 2.2, 2.6, 2.14, 2.15, 2.18, 2.23.  
Extra practice: 2.1, 2.5, 2.9, 2.13, 2.17, 2.25.

Mon Sept 8 Kinematics in One Dimension.  
Read: Chapter Three, Sections 3.1 – 3.6.  
Do Problems: 3.1, 3.2, 3.9, 3.12.  
Lab Begins.

Wed Sept 10 One Dimensional Motion with Constant Acceleration.  
Read: Chapter Three, Sections 3.7 and 3.8.  

Fri Sept 12 Kinematics in Two Dimensions; Projectile Motion.  
Read: Chapter Four, Sections 4.1 – 4.2.  
Do Problems: 4.1, 4.3, 4.6, 4.7, 4.9.
Mon Sept 15  More Projectile Motion in Two Dimensions.
Read: Chapter Four, Sections 4.2 – 4.3.
Do Problems: 4.11, 4.12, 4.13, 4.16, 4.22.

Wed Sept 17  Uniform Circular Motion, Angular Speed and Centripetal Acceleration.
Read: Chapter Four, Sections 4.5 – 4.7
Do Problems: 4.49, 4.53, 4.55, 4.61.
Extra practice: 4.50, 4.51, 4.52, 4.56, 4.57, 4.62.

Fri Sept 19  Non-uniform Circular Motion with Constant Angular Acceleration.
Read: Chapter Four, Section: 4.12 (ignoring references to \( \alpha \times r \)).
Do Problems: 4.68, 4.69, 4.72, 4.73.
Extra practice: 4.74, 4.80

Mon Sept 22  Review; Questions.

Wed Sept 24  EXAM ONE.

Fri Sept 26  Newton’s Laws of Motion.
Read: Chapter Five, Sections 5.1 – 5.7.
Do Problems 5.1, 5.2, 5.4, 5.5.