301A F18 End of Semester Schedule

Dear 301A class! Due to the extraordinary events at the end of this semester, I have amended the schedule of classes and homework. First, let us drop one of the Portfolio problems. If you haven't started the second Portfolio problem yet, I recommend you move immediately on to the third. Recall that the third Portfolio problem has three options, and you may choose any one of the three.

Next, the outline of the material to be covered is as follows:

DATE   LECTURE TOPIC

November 26:   Causal Response (i.e. Transient Response)

November 28:   Steady State Response (i.e. response to a periodic drive)

November 26:   Fourier Series

December 3:   The Kepler Problem. We find the orbit (i.e. time independent path).

December 5:   The Kepler Problem. We find the trajectory (i.e. time dependence)

December 7:   A Critique of Newton. Motivation for the Lagrangian approach.

December 10:   Mechanics according to Lagrange.

December 12:   Lagrangian problems.

December 14:   A special lecture on ***Approximation in Mechanics***.

Exam Week: We will schedule problems sessions by class vote.

Problem set 5 is nominally due December 10, and sets 6 & 7 are due at the end of exam week. I have attempted to outline sets of notes for each unit here at the end. All of these will be found on our class site.