CDS 101/110
R. Murray   **Course Survey**   Issued: 30 Sep 02
Fall 2002   Due: 7 Oct 02

The purpose of this survey is to get a sense of the background and level of the students in the class. Please mark your answers in the space provided.

Please turn in this survey by Monday, 7 October, at 5 pm in the box outside of 102 Steele.

1. Which course are you taking (CDS 101, CDS 110a, ChE 105, undecided): _____

2. What is your area of study (ME, ChE, CS, Bio, etc)? _____ Year (Jr, Sr, G1, G2, etc)? _____

3. Put a check mark next to any of the following courses that you have already taken. Put a 'C' if you are currently enrolled in the course:

   ____ ACM 95/100 (complex variables, ODEs)   ____ AM 114 (complex variables, ODEs)

   ____ AM 35 (statics and mechanics)   ____ ME 18/ChE 63 (engineering thermo)

   ____ EE 20 (circuit theory)   ____ EE 32 (signals and systems)

   ____ AM 151 (dynamics and vibrations)   ____ CDS 140 (dynamical systems)

4. Please rank your understanding of the following topics on a scale of 1 to 5, using the following classification:

1	2	3	4	5
never heard of topic		remember main ideas/concepts		very familiar with topic

   Note: it is *completely OK* if you have not heard of many of these topics. The purpose of the survey is to understand that background of the class. We will cover most of the topics in the right hand column in CDS 101 and almost all of them in CDS 110ab.

   Topics:

   ____ matrices and vectors   ____ frequency response

   ____ eigenvalues and eigenvectors   ____ transfer function

   ____ ordinary differential equations   ____ Laplace transform

   ____ homogeneous and   ____ PID control

          particular solutions   ____ lead/lag compensation

   ____ Jordan form   ____ gain and phase margin

   ____ asymptotic stability   ____ linear quadratic regulator

   ____ region of attraction   ____ Kalman filter

   ____ limit cycles   ____ feedback linearization