CALIFORNIA INSTITUTE OF TECHNOLOGY
Control and Dynamical Systems

CDS 101/110
Course Survey

R. Murray
Fall 2008

Issued: 29 Sep 08
Due: 1 Oct 08

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 1 Oct 08 (Wed) at 3 pm, either in class or in the box outside of 109 Steele.

1. Which course are you taking (circle one): CDS 101 CDS 110a CDS 210 undecided
2. What is your current option (ME, ChE, CS, Bio, etc)? _____ Year (Jr, Sr, G1, G2, etc)? _____
3. Are you obtaining a minor in CDS: yes no maybe
4. 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 125/CDS 201 (linear analysis)
   ____ Ae 115 (spacecraft navigation)
   ____ CDS 104 (dynamical systems concepts)
   ____ CDS 140a (dynamical systems)
   ____ CS/EE 145 (computer networking)
   ____ ChE 105 (control of chemical systems)
   ____ ChE/BE 169 (cellular engineering)
   ____ EE 113 (feedback circuits)
   ____ ME 115 (kinematics and robotics)

5. 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 all of the topics in the left two columns in CDS 101 and all of them in CDS 110ab.

____ matrices and vectors	____ transfer functions	____ Laplace transforms
____ eigenvalues/eigenvectors	____ asymptotic stability	____ sensitivity function
____ differential equations	____ gain/phase margin	____ linear quadratic regulator
____ frequency response	____ PID control	____ Kalman filter
____ MATLAB	____ SIMULINK	____ Mathematica

6. What is the reason you are taking the class (check all that apply)?

   ____ Option requirement
   ____ Need for my research
   ____ Interested in topic
   ____ Recommended by advisor
   ____ Recommended by friend
   ____ Other: _____

7. Are there any specific applications of feedback and control concepts that you are interested in?