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 3 Oct (Wed) at 3 pm, either in class or in the box outside of 102 Steele.

1. Which course are you taking (circle one): CDS 101  CDS 110a  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 104/AM 125/CDS 201 (linear analysis)  _____ BE 150/Bi 250b (systems biology)
   _____ ACM 95/100 (complex variables, ODEs)   _____ CDS 140 (dynamical systems)
   _____ ACM/EE 116 (random processes)   _____ ChE 105 (control of chemical systems)
   _____ AM/CE 151 (dynamics and vibrations)   _____ EE 113 (feedback circuits)
   _____ Ae 105 (aerospace engineering)   _____ ME/CS 132 (robot motion planning)

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

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>never heard</td>
<td>remember main ideas/concepts</td>
<td>very familiar with topic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   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 of the top section in CDS 101 and all three columns 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

   _____ Mathematica   _____ MATLAB   _____ Python

6. What is the reason you are taking the class (check all that apply)?
   _____ Option requirement   _____ Recommended by advisor
   _____ Need for my research   _____ Recommended by friend
   _____ Interested in topic   _____ Other: _______________________

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