

**COMP / ELEC / MECH 450**  
**Index Card - Fall 2009**

COMP/ELEC/MECH 450 attracts students from different disciplines. Please fill this index card as thoroughly as possible to help us plan for the projects of this class.

All students **taking or auditing** this class should fill and return this index card to Dr. Kavraki.

1. Your name, department and year of study at Rice:

2. Your email:

3. Your web page if you have one:

4. Programming languages. Please check all that apply and indicate if you consider yourself a novice, an intermediate or an expert in that language):

java  
java3d  
C  
C++  
Matlab  
Mathematica  
Python  
Perl  
openGL  
LaTeX  
Word

5. Foundation Courses. Please indicate the class number if you took the class at Rice, or indicate where you took the class and at what level the class was offered. Please indicate if you are taking the class concurrently with COMP 450.

data structures and programming (e.g., COMP 210, 320, 314)

algorithm analysis (e.g., COMP 482)

discrete mathematics (e.g., COMP 282)

6. Other Courses. Please provide the same information as in 5 above. Note that knowledge of the topics below is not required for the class. But if you do have such knowledge, we need to know to design better projects for you.

vector calculus

linear algebra

probability and statistics

real analysis

differential geometry

ordinary differential equations

numerical analysis

numerical integration

numerical solution of linear systems

measure theory

geometric topology

dynamics of mechanical systems

control theory

robotics

optimal control

non-linear control

robust control

signal processing

probabilistic or randomized algorithms

graphics

artificial intelligence

graph theory

theoretical computer science (comp 481 or equiv.)

computer vision

computational geometry

7. Do you (or did you) have any affiliation with any research group? If yes, which one? If you are a graduate student and have a thesis adviser, who is your adviser?
  
8. Have you worked on any projects related to robotics in the past? Please describe.
  
9. Why are you taking this course (degree requirement, your own interest, help in your research projects?)