

**Math 433/833 Nonlin. Opt.**      Initial Survey      Name: \_\_\_\_\_

**INFORMATION:**

Please list your year, major, and preferred email address. Is this the email address on WAM?

Two *2-hour* evening tests are tentatively scheduled for the weeks of Feb 23 and Apr 13. Please mark the times that you would *not* be able to take the tests:

times	Mon	Tues	Wed	Thu	Fri
5pm–6pm					
6pm–7pm					
7pm–8pm					
8pm–9pm					

**BACKGROUND:**

What math classes have you taken? Please list classes by title, not course number (ie, Calc II, not Math 124). Include math classes in other departments, such as discrete math classes in computer science.

Have you taken multivariable calculus? Are you comfortable computing the gradient? Lagrange multipliers?

Have you taken linear algebra (also called matrix theory)? Are you comfortable solving systems of linear equations? Inverting matrices? With the concept of linear independence in  $\mathbb{R}^n$ ?

Are you comfortable using a program (such as Maple or Matlab) or a programming language that allows easy manipulation of matrices? Which program? Could you easily find the reduced row echelon form of a matrix with 100 rows and 100 columns?

Which programming languages do you know? Have you used Python? Have you used Sage?

**INTEREST:**

Why are you taking this course? What is one particular thing that you hope to get out of the course? Are there any particular topics that you want to see covered?

Please write anything else that you want me to know on the back.