

NAME & Places: (hometowns, etc)

Year & Program: (3rd year MATH/APMA, for example)

E-Mail (req) & Local Phone (opt):

Quantitative Courses: (course # and term taken)

calculus & advanced calculus

linear algebra & analysis

courses with computing

quantitative courses (sciences, economics, etc)

Matlab & Maple – Experience: (yes/no)

Matlab & Maple – Access: (lab and/or home)

Other Computing Experience: (software, programming languages, web design)

Subjects of Interest: (specific maths, sciences, etc)

Learning Objectives: (3 = high priority, . . . , 0 = don't care)

[] analysis/theory [] applications [] computing & graphics

Personal Course Objectives: (goals for this class & future plans)

Familiarity Scale: I know it ...

5 ... in my sleep!

4 ... after a bit of thinking

3 ... should I see it in class again

2 ... if I can wikipedia it

1 ... vaguely from a previous exam question I couldn't answer

0 ... huh?

-7 ... is a subject to be avoided at all costs

Mathematical Topics: use above scale (section numbers from Calculus text, 6th ed)

Exponential, Logarithm & Hyperbolic Functions (1.5, 1.6, 3.1, 3.6 & 3.11)

Limits, Limit Laws & Continuity, in 1D & 2D. (2.3, 2.4 14.2)

Fundamental Theorem of Calculus (5.3)

Methods of Integration (chap 7)

Average Value and Arclength by Integration (6.5, 8.1 & 10.4)

Polar Coordinates (10.3)

Convergence of Sequences & Series (11.1, 11.6)

Arithmetic & Calculus for Series (11.2, 11.9)

Geometric, Power & Taylor Series (11.2, 11.8, 11.10)

Level Curves in 2D & Surfaces in 3D (14.1)

Partial & Directional Derivatives (14.3, 14.6)

Linear Approximation in 2D (14.4)

Multi-Variable Chain Rule & Variable Changes (14.5, 15.9)

Double & Line Integrals (15.3, 15.4 & 16.2)