Math 150: Freshman Seminar — Computing in Mathematics
Spring, 2014
TR 2:00–3:20    Jones 113

Instructor: Larry Leemis
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Office hours: Tuesday and Thursday: 3:30 - 5:00 PM, or by appointment

Purpose:
This class introduces students to the R software package with an emphasis on solving intractable problems in mathematics.

Prerequisites:
None.

Text:

Grades:
Course grades will be determined by these weights:
- Homework 20%
- Midterm I 25%
- Midterm II 25%
- Final exam 30%

The grading scale is (plus and minus grades may be assigned within each range):
- 90 – 100 %  A
- 80 – 90 %  B
- 70 – 80 %  C
- 60 – 70 %  D
- 0 – 60 %  F

Homework:
Weekly homework sets are typically due at the beginning of the Thursday class period. No late homework assignments will be accepted.

Course outline:
1. The R package
2. Introduction to the R language
3. Programming statistical graphics
4. Programming in R
5. Simulation
6. Computational linear algebra
7. Numerical optimization