

MATH 7608 STATISTICAL PROGRAMMING WITH R
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Fall, 2015
Time: TR 01:00pm-02:25pm
Room: DH 207

(A) Course Contents:

1. Brief overview on R.
2. Basic Data Structure and Expression in R.
3. Basic Programming in R.
4. Input and Output in R.
5. R Programming with functions.
6. Advanced Data Structure in R.
7. Better Graphics Using R.
8. Advanced Programming Techniques in R.
9. R for Statistical Applications.

(B) Office Hours: 10:30am-12pm TR (DH 219) or by appointment lihdeng@memphis.edu

(C) Textbook and Required Equipment:

- “Scientific Programming and Simulation Using R”, by Owen Jones, Robert Maillardet, and Andrew Robinson, CRC Press Second edition, 2014, ISBN-13 978-1-4665-6999-7.
- PC/Mac with access to internet will be required. Students will install R, which is a free programming language.

(D) Grading:

- mid-term exam -1 25 %
- mid-term exam -2 25 %
- final project 35 %
- homework and class participation 15 %