Course Information

Class Meeting Place: 110 OSB
Class Meeting Time: T Th 2:00pm - 3:15pm (Lecture)

Instructor: Dr. Wei Wu
E-mail: wwu@stat.fsu.edu
Office: OSB 106B
Office Hours: T Th 10:30-11am, 1:30-2pm
Mailbox location: 214 OSB (accessible during 8:00am - 5:00pm on working days)

Teaching Assistant: Yue Mu
E-mail: ym18e@my.fsu.edu
Office: 204 OSB
Office Hours: W 2-3pm

Textbook: Computational Statistics, by G. H. Givens and J. A. Hoeting (Optional)

Course Objectives: To gain an understanding of the techniques and ideas used in implementing mathematical/statistical formulations on computers, with a focus on common statistical approaches. Students will also obtain practice in using MATLAB.

Prerequisite: basic probability and statistics, linear algebra, and advanced calculus.

Topics
- Linear Methods for Regression Analysis
- Principal Component Analysis
- Nonlinear Methods for Maximum Likelihood Estimation
- Elementary Pattern Recognition
- Simulation of Random Variables
- Monte-Carlo Methods for Integration
- Dynamic Programming

Grading: Homework (50%), Midterm Project (25%), Final Project (20%), Attendance (5%). The midterm project is graded for both the report (20%) and the presentation (5%). The final project is graded only for the report.

Course Policy
- Classroom policies:
  - You are required to attend all classes
  - Come to the class on time
  - Be quiet
• **Homeworks:** The homework problems will typically be assigned every Thursday and be due the next Thursday. The homework must be neatly written, preferably typed. You can work with other students, but each student must independently finish his/her own solutions. **No late homework!**

• **Academic honor policy:** The Florida State University Academic Honor Policy outlines the University’s expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “. . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy, found at http://dof.fsu.edu/honorpolicy.htm.)

• **Students with disabilities:** Students with disabilities needing academic accommodation should:
  1. register with and provide documentation to the Student Disability Resource Center; and
  2. bring a letter to the instructor indicating the need for accommodation and what type.
This should be done during the first week of class.
For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
97 Woodward Avenue, South
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu
http://www.disabilitycenter.fsu.edu/