Stat6226: Advanced Biostatistics

Instructor: Zhaohai Li
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Office phone: 202-994-7844
Office hours: Thursday: 10:30am -11:30am; Wed.: 5:00-6:00pm
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References:


**Learning Outcomes**

As a result of completing this course, students will be able to:

Understand current research in areas of statistical methods for analysis of longitudinal data, sequential design and analysis of biomedical studies, and Empirical Bayes methods;

Understand the EM algorithm and implement the EM algorithm;

Conduct research in areas of statistical methods for analysis of longitudinal data, sequential design and analysis of biomedical studies, and Empirical Bayes methods;

Apply the EM algorithm, sequential design and analysis, methods for analysis of longitudinal data to real problems.

**Grading:** Your final letter grade will be based on weighted average: 35% Homework, 30% Midterm Exam, and 35% Final Exam.
No incomplete grades will be assigned for marginal or failing grades at the end of the semester. There will be no extra work available to improve your final grade. Your grade will be determined as outlined above. **There will be no exceptions.**

**Class Attendance:** Class discussions will extend the materials covered in the textbook. Therefore, it is important that you attend the class. You are responsible for any materials covered or any announcements made in class, even if you are not present.

**University Policy on Religious Holidays:**
1. Students should notify faculty during the first week of the semester of their intention to be absent from class on their day(s) of religious observance;
2. Faculty should extend to these students the courtesy of absence without penalty on such occasions, including permission to make up examinations;
3. Faculty who intend to observe a religious holiday should arrange at the beginning of the semester to reschedule missed classes or to make other provisions for their course-related activities

[NOTE: for other university policies on teaching, see http://www.gwu.edu/~academic/Teaching/main.htm]

**ACADEMIC INTEGRITY**
I personally support the GW Code of Academic Integrity. It states: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see: http://www.gwu.edu/~ntegrity/code.html

**SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM**
**DISABILITY SUPPORT SERVICES (DSS)**
Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: http://gwired.gwu.edu/dss/

**UNIVERSITY COUNSELING CENTER (UCC) 202-994-5300** The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include:
- crisis and emergency mental health consultations
- confidential assessment, counseling services (individual and small group), and referrals

http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices

**SECURITY**
In the case of an emergency, if at all possible, the class should shelter in place. If the building that the class is in is affected, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location.