Course: STAT 6223-10  
Semester: Spring 2015  
Time: Wednesday, 6:10-8:40  
Location: Rome Hall 459

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COURSE DESCRIPTION
This is a course on Bayesian theory and methods. It is an overview of Bayesian statistics, starting with a discussion of why one would use Bayesian methods. The course includes theory and applications, and is meant for a person with some theoretical statistics background.

Course topics include foundational issues -- the likelihood principle and the Bayesian approach, conjugate priors and non-informative priors, Bayesian estimation, Bayesian testing of hypotheses and the Bayes factor, Bayesian linear models, robustness of Bayesian analyses, and computational issues.

COURSE PREREQUISITES: Stat 6201-6202

TEXT

GRADES
The overall grade is made up of
HW 50%  
Final 50%

LEARNING OUTCOMES
You will learn
--the importance of prior information in inference problems  
--problems and issues in classical inference  
--conditional risk and integrated risk principles  
--Bayesian estimation principles  
--Bayesian hypothesis testing approaches and the Bayes factor  
--about robustness issues and approaches in Bayesian analyses.
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

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 Rome Hall, Suite 102, 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 Rome Hall is affected, follow the evacuation procedures for the building. After evacuation, seek shelter on the main floor of Gelman Library.