STAT 532: BAYESIAN DATA ANALYSIS
Fall, 2015

TENTATIVE SCHEDULE

The following schedule is a *TENTATIVE* guideline for reading and organization. I will update you each class period on required readings and keep you updated regarding due dates of assignments, projects, quizzes, and exams. I very much want students to play an active role in organization and path of the course and also plan to make some changes this semester to what I have done in the past.

Table 1: Tentative order of topics with chapters in text

Topic	Reading
Setting up a probability model, Bayes' rule, etc.	Chapter 1
Binomial model and example	Sections 2.1-2.5
Standard univariate models (normal, Poisson)	Sections 2.6-2.9
Multiparameter models	Chapter 3
Intro to computation and posterior simulation	Chapter 3
Hierarchical models	Chapter 5
Model checking, posterior predictive checking, etc.	Chapter 6
Computation	Chapters 10, 11, Appendix C
Normal linear regression from Bayesian perspective	Chapter 14
Hierarchical linear and generalized linear models	Chapter 16
Generalized linear models	Chapter 16
Connections to other methods, examples of pitfalls	Chapters 8 and 9
Data collection issues	Chapter 7
Decision Analysis	Chapter 22 (probably won't get to this)
Models for Missing Data	Chapter 21 (probably won't get to this)

Date	Event
September 7	No class (Labor Day)
October 1-2	Tentative Midterm I
November 4 - 6	Tentative Midterm II
November 26	No class (Thanksgiving)
December 3	Written projects due by 3:00 p.m. (This is a Thursday)
December 2-4	Oral presentations (May also have presentations during finals week)
December 10	Final exam due by 11:00 a.m. (scheduled Final Exam time is 8-9:50)