

## STAT 544 Bayesian Data Analysis Spring 2019, MWF 12:00-12:50, Math 108

### Course Information

- **Instructor:** David Patterson, Math 208, 243-6748, david.patterson@umontana.edu
- **Textbook:** Statistical Rethinking, Richard McElreath, CRC Press, 2016. Available as ebook through Mansfield Library.
- **Prerequisites:** Stat 452 (Statistical Methods II) or Stat 422 (Mathematical Statistics) or equivalent. Some experience in R is also assumed.
- **Software:** Most assignments will require the use of R and the `rethinking` package. R is a free program which can be downloaded from <http://www.r-project.org/>. Instructions for downloading the `rethinking` package are in the Preface to the textbook.
- **Office Hours:** See Moodle page

### Grading:

- Grades will be based entirely on homework, in-class presentations and discussions of homework problems or other material. Students who attend regularly and do the work shouldn't have any problems achieving a good grade.

### Catalog description:

STAT 544 is a topics course:

STAT 544 - Topics in Probability and Statistics. 3 Credits. (R-12) Offered intermittently.

### Course outline:

We will work through the book, chapter by chapter, with the goal of finishing the entire book. Problems will be assigned from every chapter.

### Important dates:

- **Monday, January 21:** Martin Luther King, Jr. Day, no classes.
- **Thursday, January 31:** last day to drop course with refund. A "W" will appear on transcript for courses dropped after this date.
- **Monday, February 18:** Presidents' Day, no classes.
- **Friday, March 15:** last day to drop course with instructor's and advisor's signatures. After this date changes require Dean's signature and a WP or WF will appear on transcript.
- **Mon-Fri, March 25-29:** Spring break, no classes.
- **Friday, April 26:** last day of classes.

### Incompletes

Incompletes are given at the discretion of the instructor and are only considered in cases where the student has been in attendance and doing passing work up to three weeks before the end of the semester, and for reasons beyond the student's control and which are acceptable to the

instructor, the student has been unable to complete the requirements of the course on time. Negligence and indifference are not acceptable reasons.

**Students with disabilities are welcome to discuss accommodations with me.**

### **Academic Honesty**

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary action by the University. All students need to be familiar with the Student Conduct Code. You can find it in the A-Z index on the UM home page.