

Stat 312: Course Outline

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September 2, 2004

1. **Lectures:** TR 9:30-10:45 120 Ingraham
2. **Class web:** <http://www.stat.wisc.edu/~mchung/teaching/stat312/stat312.html> Lecture notes and homeworks will be posted here.
3. **Office Hour:** TR 11:00-12:30 or by appointment
4. **Office:** 1245C Medical Science Center Tel: (608) 262-1287
5. **Teaching Assistant:** Tao Yu
yutao@stat.wisc.edu
6. **TA Office Hour:** TBA.
7. **Discussions:**
DIS 311 1:20pm Thurs 5295 MED SC CTR
DIS 312 4:00pm Thurs 1207 COMP S&ST
DIS 313 2:25pm Thurs 1289 COMP S&ST
8. **Requirements:** Stat 311 + Calculus + Access to Windows computer + printer. If you have not taken Stat 311, it is your responsibility to study Chapter 1 -5 materials by yourself.
9. **textbook:** Jay L. Devore, Probability and Statistics for Engineering and the Sciences, 6th edition. Publisher: Duxbury, ISBN: 0534399339. 5th edition can be used.
10. **Recommended reading:** Peter Dalgaard, Introductory Statistics with R. Publisher: Springer Verlag; 1st edition. ISBN: 0387954759.
11. **Topics covered:** R statistics package. sampling distributions, point estimation, properties of estimators, confidence interval, hypothesis testing, correlation, regression analysis, analysis of variance, categorical data.
12. **Computing:** Half of assignments will require using R package to generate outputs and graphs. Installation guide can be found at
<http://www.stat.wisc.edu/~mchung/teaching/R/installingR.htm>.
13. **Evaluation:** Exams may require understanding R outputs.
Assignments (20%) There will be about 8 bi-weekly assignments. Some problems will require using R. Staple your papers together. Write your name clearly. *Put your last name in the last position.* Please hand in homework in class on time. No late homework will be accepted or graded. Homework grading is the responsibility of TAs. For all matters of homework, contact TAs directly.
Mid Terms (45%) There will be two midterms. Calculators are permitted; One page note is permitted (letter size).
Final Exam (35%) Covers everything. Calculators are permitted but do not bring tiny computers; One page note is permitted (letter size).
Final Grade (100%) = Assignments (20%) + Midterms (45%) + Final Exam (35%).
14. **Important dates**
Sept 2 Class starts
Sept 6 Labor day
Oct 7 First Midterm
Nov 5 Last day to drop courses (undergraduates)
Nov 18 Second Midterm
Nov 26 Last day to withdraw courses (undergraduates)/drop courses (graduates)
Nov 25-28 Thanksgiving
Dec 15 Last class day
Dec 17 Final exam 12:25 P.M. FRI.