

## Statistics 5301 Autumn 2016: Intermediate Data Analysis

**Instructor:** Yuan Zhang (zhang.7824@osu.edu)

**Office hours:** Monday 10am–noon in 229 Cockins Hall

**Grader:** Guowei, Li (li.7230@osu.edu)

**Lectures:** Monday and Wednesday, 3–4:50pm Page Hall, Room 020

**Class materials:** on course Carmen site

**Description:** STAT 5301 is a first course in a two-semester pre-calculus sequence in data analysis covering exploratory data analysis, regression, design of experiments, probability, and one/two sample statistical inferences.

**Prerequisites:** Open to students with at most 5 credit hours in Statistics. The course is pre-calculus and designed for students with limited mathematics background.

**Textbooks:**

1. First half: (Optional) *Introduction to the Practice of Statistics* (5th Edition onwards), by D. S. Moore and G. P. McCabe
2. Second half: *The Statistical Sleuth: A Course in Methods of Data Analysis*, 3rd Edition, by F. Ramsey and D. Schafer, 2012

**Homework:** Homeworks will be posted on the Carmen site. Homeworks are mostly due on Mondays (except for the first one). Each homework is due at the beginning of the class on the due date. The lowest homework score will be dropped. No late homework accepted.

You are encouraged to work together and discuss homework questions, but your own answer must be written independently.

Put your name and the homework assignment number on the top right-hand corner of every page. All homework should be submitted on A4 paper. Staple the pages together. We are not responsible for lost pages. Submit the problems in order, making sure that the computer output and discussion are placed together (do not put the computer output at the end of homework). Raw computer output is not acceptable. Make it clear what parts of the output are relevant and show how they answer the questions posed in the homework.

**Exams:**

- Midterm 1: Monday, September 26, in class
- Midterm 2: Monday, November 7, in class
- Final: Friday, December 9, noon-1:45pm, location TBA

All exams are closed book. Calculators are allowed. Cellphones, laptops and personal digital assistants are not allowed. Exams are cumulative. There will be no make-up exams.

**Score break down:** homework: 15%, midterm 1: 25%, midterm 2: 25%, final: 35%

**Academic misconduct:**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

**Disability statement:**

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292- 0901; <http://www.ods.ohio-state.edu/>.