

Summer 2018  
**University of Akron**  
**3470: 461/561 Applied Statistics**

**Time and Place:** MTTh 6:00 - 9:20pm CAS 140  
**Instructor:** Nao Mimoto  
**Office:** CAS 413  
**Phone:** (330) 972 8011  
**Email:** nmimoto@uakron.edu  
**Office Hours:** MTTh 5-6 and by appointment  
**Course Web Page:** gozips.uakron.edu/~nmimoto\461

**Textbook:** Devore, J. Probability and Statistics for Engineering and the Sciences, 8th ed. Thompson Brooks/Cole, Belmont CA. (Recommended)

**Course Description:** Prerequisite: 3450:222 or equivalent. Applications of statistical theory to natural and physical sciences and engineering, including probability distributions, interval estimation, hypotheses testing (parametric and nonparametric), and simple linear regression and correlation.

**Attendance:** You are expected to attend all meetings of the class. If you miss a class for whatever reason, you are responsible for all covering materials, assignments and deadlines.

**Homework Assignments and Rules:** Homework after each lecture will be posted on Springboard.

**Statistical Software R:** We will use a statistical software called R. You can download for free, and install on your Windows, Mac or Linux machine. See instruction posted on class web page for more details.

**Exams:** There will be one midterm exams and a final exam. All the exams will be held within the class period, in the same room as the lectures. Make-up tests will be given only when you have a verifiable medical excuse.

**Grading Scale:** Grading is based on homework and exam scores according to the following schemes:

<i>SchemeA</i>		<i>SchemeB</i>	
Homeworks	50%	Homeworks	30%
Midterm 1	25%	Midterm 1	30%
Final	25%	Final	40%

Your course score will be the **higher** of the two scheme. A course grade will be given according to the following scale:

A		B		C		D	
90%		80%		70%		60%	

A plus/minus grade may be assigned if a student's total fall just below one of the cut-offs.

**ADA:** Any student who feels he/she may need an accommodation based on the impact of a disability should contact the Office of Accessibility at (330) 972-7928. The office is located in Simmons Hall room 105. Their web page can be viewed at <http://www.uakron.edu/access/>.

**Disclaimer:** The instructor reserves the right to make any changes he considers academically advisable. Changes will be announced in class and on the course web site. It is your responsibility to keep up with any changed policies and assignments.

Table 1: **Tentative Schedule of Chapters to be covered**

#	Week of	M	T	Th
1	June 11	1/2	2	3
2	June 18	3	4	4
3	June 25	Exam	5	6
4	July 2	6	7	7
5	July 9	8	8	Final