MA5701: Statistical Methods

Course Introduction

Kui Zhang, Mathematical Sciences

Contents

- **Chapter 1: Data and Statistics**
- Chapter 2: Probability and Sampling Distributions
- Chapter 3: Principles of Inference
- Chapter 4: Inferences on a Single Population
- Chapter 5: Inferences on Two Populations
- Chapter 6: Inferences for Two or More Means
- Chapter 7: Linear Regression
- Chapter 8: Multiple Regression

Data and R

- **Data file**
  - Canvas Files Tab, then "Data" Folder
- **Software - R**
  - R Website - https://www.r-project.org

Instructor Information

- **Office Location:** 211 Fisher Hall
- Email: kuiz@mtu.edu
- Office Hours: MWF 2:00pm – 2:50pm; or by appointment

Grading Schemes

Letter Grade	Percentage	Grade points/credit	Rating
A	[90, 100]	4.00	Excellent
AB	[85, 90)	3.50	Very good
B	[80, 85)	3.00	Good
BC	[75, 80)	2.50	Above average
C	[70, 75)	2.00	Average
CD	[65, 70)	1.50	Below average
D	[60, 65)	1.00	Inferior
F	[0, 60)	0.00	Failure

Grading Policy

Course Component	Percentage
Attendance	5%
Weekly Homework	50%
Mid-Term Exam (Open book/note)	15%
Final Exam (Open book/note)	30%
Total	100%

Grading Policies

- **Late Assignments**
  - Not allowed unless approved by the instructor in advance.

- **No Round Up**
  - Calculated by CANVAS automatically and will not be rounded up or down.
  - For example, if your final grade in CANVAS is 89.75., then your letter grade will be B.

Course Policies

- **Attendance (5%)**
  - Get approval in advance if you cannot attend a class.

- **Homework (50%)**
  - Weekly. Final week HW has bonus points.
  - Homework can be written or typed.

- **Mid-term Exam (15%)**
  - In-class, Open book, open notes.
  - Class on Friday 2/21, last Friday before the spring break.

- **Final Exam (30%)**
  - Open book, open notes

Course Policies

- **Communication is the key.**
  - Canvas Inbox for individual correspondence.
- Let me know if you need any special accommodations for the class, the homework, and the exams as soon as possible.
- Please feel free to ask any question during class; your questions are an important part of this course.
- Please make sure to bring a calculator with you to class, so you can be appropriately prepared for assignments and/or exams.