

ECONOMICS 3818-040  
Introduction to Statistics with Computer Applications  
Fall 2018  
TuTh, 2:00-3:15pm, ECON 117

Instructor: Matthew Ridge Butner

### **Course Components:**

Your grade will be determined through four measures with the following weights:

Exams: 70%    Sapling Homework: 10%    R exercises: 10%    Recitation: 10%

Exams: Two midterms (20% each) and a cumulative final (30%). They will be predominately multiple choice with a few free response questions. If necessary, a curve will be applied on each exam. You are allowed a 3 by 5 index card of hand written notes for reference during the exam.

Sapling Homework: There will be a brief problem set assignment every week. It will be due on Sunday at 6pm. You are responsible for knowing when homework is due. Late homework will not be accepted. Your lowest homework grade will be dropped. **Sapling is required.** Use `butner` as the enrollment key.

R exercises: There will be five simple assignments for you to complete in R and one data project. We will work on each on in class the week before the assignment is due. The data project will give you hands on experience cultivating and analyzing a data set of your choice. The first exercise will not be graded. The remaining 4 exercises and data project are each 2% of your final grade.

Recitation: This is a four credit course. Recitation attendance is mandatory. Your TA is responsible for

**Communication:**

My colorado.edu email address is the best way to contact me. I will announce important dates, and course updates, through email. Be sure to check your email to stay up to date in the course.

**Tentative timeline**

Subject to change at the instructor's discretion.

All chapter numbers refer to Moore et. al. eighth edition.

Week 1 – 8/28	Chapters 1, 2. Population v. sample, introduction to R.
Week 2 – 9/4	Chapters 12, 13.
Week 3 – 9/11	Chapters 14, 3.
Week 4 – 9/18	Mathematical expectation, Chapters 8 and 9.
Week 5 – 9/25	<b>Midterm 1</b> , Chapter 15.
Week 6 – 10/2	Properties of Estimators. Chapter 15.
Week 7 – 10/9	Chapters 16, 17.
Week 8 – 10/16	Chapters 17, 18.
Week 9 – 10/23	Chapter 20.
Week 10 – 10/30	Chapter 21, <b>Midterm 2</b> .
Week 11 – 11/6	Chapters 22, 23, 4.
Week 12 – 11/13	Chapter 5.
Week N/A – 11/20	<b>Fall Break</b>
Week 13 – 11/27	Chapters 6, 25.
Week 14 – 12/4	Chapter 26.
Week 15 – 12/11	Chapters 27, 29.
Final – 12/17	Monday, 4:30-7:00pm, tentative

**Important dates:**

Homework is due most Sundays!

Clicker questions every class period!

These dates are tentative!

- 8/28 – First day of class
- 9/4 – R exercise 1 due
- 9/5 – Last day to add a class through myCUinfo
- 9/12 – Last to drop a class without Tuition/Fee Charges and without a W Grade
- 9/18 – R exercise 2 due
- 9/25 – Midterm 1, tentative
- 10/16 – R exercise 3 due, tentative
- 11/1 – Midterm 2, tentative
- 11/2 – Last day to drop a class in myCUinfo
- 11/8 – R exercise 4 due, tentative
- 11/19 – Fall Break begin
- 11/23 – Spring Break begin
- 11/29 – R data project due, tentative
- 12/11 – R exercise 5 due, tentative
- 12/17 – Final exam, Monday, 4:30-7:00pm, tentative