

Xiaodong Liu, Assistant Professor

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Location: HUMN 135  
Meeting Times: MWF 1:00 – 1:50 pm  
Office Hours: W 2:00 – 4:00 pm

**TA:** Amit Patel ( )

**RECITATIONS:**

021	9:00-9:50	TH	HLMS 259
022	8:00-8:50	TH	ECON 16
023	5:00-5:50	T	ECON 16

**CLASS WEBSITE:** All course materials will be posted on D2L.

**COURSE DESCRIPTION:**

Econ 3818 provides an introduction to statistics with emphasis on both theory and applications. We will study basic statistical concepts and techniques, and introduce their applications to a variety of practical problems. We will utilize Microsoft Excel for the data analysis in this course. Excel is available in all campus computer labs, including the lab in the basement of the Economics building.

**TEXT:**

**ASSESSMENT:**

The grade for this course will be calculated as follows:

1. Class participation (10 pts).
2. Homework (10 pts).
3. Two midterms (20 pts each).
4. Final (30 pts).
5. Recitation (10 pts).

*Class Participation:* A student can miss two classes. After that, one point will be deducted for each missed class.

*Homework:* Weekly problem sets with due dates will be posted on D2L. Late homework will NOT be accepted.

*Exams:* There will be no makeup exams. A student who misses a midterm due to an excused absence will have the additional weight shifted to the final.

### **TENTATIVE SCHEDULE:**

Ch 2,3	Descriptive statistics: measures of central tendency and dispersion
Ch 4	The relationship between population and sample
Ch 5	Basic probability concepts
Ch 6	Basic probability distributions
Midterm 1	
Ch 7	Expectation
Ch 8	Joint probability distributions
Ch 9	Some applications of joint probability distributions
Midterm 2	
Ch 10	Statistical properties of estimators
Ch 11	Confidence intervals
Ch 12	Hypothesis tests
Ch 13	The two-variable regression model
Ch 14	The multi-variate regression model
Final	

### **UNIVERSITY POLICIES:**

University policies regarding classroom behavior are available at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

Information regarding the University Honor Code is available at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode>. The Honor Code Council can be contacted by telephone at 303-725-2273 or by email at [honor@colorado.edu](mailto:honor@colorado.edu).

University policies regarding disabilities are available at <http://www.colorado.edu/disabilityservices>. Disability Services can be contacted by telephone at 303-492-8671 or by e-mail at [dsinfo@colorado.edu](mailto:dsinfo@colorado.edu).

University policies regarding religious practice are available at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html).

University policies regarding Sexual Harassment and Amorous Relationships are available at <http://www.colorado.edu/odh/>. The Office of Discrimination and Harassment can be reached by telephone at 303-492-2127. The Office of Judicial Affairs can be reached at 303-492-5550.