

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.