

# MATH 4713 - Summer 2016

## Probability and Statistics for P-8 Teachers

---

Instructor: Lirong Yu

Office: Sequoia 234

E-mail: [lyu@daltonstate.edu](mailto:lyu@daltonstate.edu)

Office Phone: 702.272.2161

Class: MTWR 8am-10:35am in Seq 136

CRN: 50160

Office Hours: MTWR 2:00pm-4:00pm,

or by appointment

---

### Textbook

Our e-textbook is free and a print version is available at very low cost.

The book is available in a wide variety of free online formats via the website listed below. You can use the book in whichever format(s) you want; we recommend that you download the entire .pdf so that you always have access to your book.?

Introductory Statistics from OpenStax College, ISBN 1-938168-20-8,

<https://openstax.org/details/introductory-statistics>

Printed copies at a significantly reduced textbook rate are also for sale via your college bookstore or

<https://openstax.org/details/introductory-statistics>

---

**Prerequisite:** MATH 2008.

### Course description:

Provides special emphasis for teachers of grades P-8 on the fundamental concepts of probability and statistics with particular attention to specific methods and materials of instruction.

---

### Student Learning Objectives:

Upon successful completion of this course, the student should be able to:

- demonstrate an understanding of standard vocabulary and symbols associated with probability and statistics.
  - demonstrate a better understanding of the fundamental concepts in probability and statistics, including the organization of data, numerical descriptions measures, discrete random variables and their probability distributions, and continuous random variables and the normal distribution.
  - demonstrate a better understanding of appropriate strategies for teaching probability and statistics concepts at the P-8 level.
- 

### Attendance

Class attendance is required. If you are absent from a class, you will be responsible for all material covered and all announcements made. If you are absent from a test, the percentage you score on the final exam will count as your score on the missed test.

### Notes on the Calendar

There will be no classes on July 4th (Independence Day Holiday). The Last Day to Drop Without Academic Penalty is June 30th.

### Homework

There will be homework assigned each day.

**Grading**

Four in-class tests	50%
A final exam	20%
Homework	20%
class participation	5%
Teaching Presentation and written reflection	5 %

Grade= $0.5*(\text{test average})+0.2*(\text{final exam})+0.2*(\text{homework average})+0.05*(\text{Teaching})+0.05*(\text{Class participation})$

F: 0-59%, D: 60 - 69%, C: 70 - 79%, B: 80 - 89%, A: 90 - 100%

**Make-up Policy:**

Make-up exams will be given only at the discretion of the instructor and only for emergencies and other unavoidable situations. Work and vacation are not acceptable excuses to miss an exam. If possible, you must notify me in advance if you need to miss an exam so that we can schedule a make-up time. If an emergency unexpectedly causes you to miss an exam, you must contact me (by e-mail or in person) within 24 hours of the absence in order to be able to make up the exam. Documentation must be provided at the time of the make-up exam for certain situations. Such documentation depends on the reason for the absence.

**Extra Help:**

If you need extra help in this course, you have several options. First and foremost, stop by my office hours if you have questions on the material or homework problems, or make an appointment with me to discuss the material at a time which works for both of us. I also encourage you to work with other students on homework and when preparing for exams. The Math Lab is located in Sequoia 219 and is available for help with this course. The Math Lab is generally open five days a week, and specific hours will be announced in class when they are available. You are also encouraged to contact Academic Resources for information on tutoring and peer instruction.

**Academic Dishonesty:**

Cheating and plagiarism are a part of the Dalton State Code of Student Conduct, which can be found in its most updated form at <http://daltoncampuslife.com/student-conduct/>. ANY assistance provided or given in any way toward work in a class constitutes cheating, unless such behavior is authorized by your instructor. Additionally, any use of the ideas or words of others should be noted, or this will constitute plagiarism. For more details on what Dalton State considers to be Academic Dishonesty, please review the Code of Student Conduct. Instructors will assign grades based on classroom performance. Additional sanctions may be provided as a learning experience from the Student Conduct process.

**Classroom Behavior:**

Dalton State is committed to respect via the Roadrunner Respect pledge. To learn more, please visit <http://daltoncampuslife.com/roadrunner-respect/>.

I pledge to show my fellow Roadrunner students, faculty, staff, and administration respect by treating others the way they want to be treated and by thinking about others first before making decisions that might affect them.

**Inclement Weather/College Closure Emergency Instructional Plan:**

In the event the college is closed due to inclement weather or another unforeseen event, students will consult the schedule provided at the beginning of the semester to determine which sections would be covered during the time the college is closed. Students will be responsible for reading those sections and completing the online homework associated with them. Exams will be moved in the class schedule to accommodate the curtailed schedule. Check your e-mail for additional information. Your instructor

may be available via e-mail for questions on a limited basis when the college is closed.

**Drop/Withdrawal Statement:**

The last day to drop this class is June 30th. After this date, withdrawal without penalty is permitted only in cases of extreme hardship as determined by the Vice President for Academic Affairs; otherwise a grade of WF will be issued. The proper form for withdrawing from all classes at the college after the official drop/add period but before the published withdrawal date is the Schedule Adjustment Form. All students must meet with a staff member at the Office of Academic Resources in the Pope Student Center to initiate the withdrawal process. After meeting with the staff member, students will then finalize the withdrawal process in the Enrollment Services office. Before dropping any class, the college strongly advises that students meet with their academic advisor to discuss the impact of a withdrawal on their graduation plans. The college also strongly advises students who are receiving any type of financial aid to visit the Financial Aid Office in the Pope Student Center to discuss the impact a withdrawal may have on their financial aid status.

**Disability Support Services Statement**

Students with disabilities or special needs are encouraged to contact Disability Support Services. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the Disability Support Services Library Guide

<http://libguides.daltonstate.edu/Disability>

or contact the Coordinator of Disability Support Services.

Contact information:

Andrea Roberson

Pope Student Center, lower level

(706) 272-2524

[aroberson@daltonstate.edu](mailto:aroberson@daltonstate.edu)

**Workforce Development Statement**

If a student receiving aid administered by the DSC Workforce Development Department drops this class or completely withdraws from the College, the Schedule Adjustment Form must be taken to the Workforce Development Office first. The office is located in the Technical Education Building, Room 112 and their hours are 9:00 AM - 12:15 PM and 1:30 PM - 3:00 PM, Monday, Tuesday, and Thursday, and 8:30 AM - 12:00 noon on Friday. Their phone number is (706) 272-2635.

**Disclaimer:**

This syllabus provides a general outline for the course. Deviations may be necessary.