





- ISBN-13: 978-0078136337
- ISBN-10: 0078136334

- Optional Reference Books: Hacker, *A Writer's Reference*, RC Edition
- Calculator: A basic scientific calculator. Learn to use it before test day. A calculator capable of performing basic statistic calculations would be beneficial.

**Course Grades:**

The following table outlines the the approximate grade weights

Exams	60%
Homework	20%
Project	20%

Letter grade Scale

A	93 - 100	C	73 - 76
A-	90 - 92	C-	70 - 72
B+	87 - 89	D+	67 - 69
B	83 - 86	D	63 - 66
B-	80 - 82	D-	60 - 62
C+	77 - 79	F	0 - 59

**Homework Quizzes:**

Graded homework will consist of electronic quizzes that can be taken online in your "Inquire" class management page [ [inquire.roanoke.edu](http://inquire.roanoke.edu) ]. The quizzes will be typically multiple choice and cover the material presented in class. The quizzes will be available after the material in class has been covered and typically due a week later. Don't wait until the last minute to submit your quizzes to help avoid computer or other issues.

**Exams:**

There will be three exams during the semester and a final exam. During these exams no cell phone use will be permitted. You may use a basic scientific calculator and a 3x5 note card with notes (front and back). When you take the final exam, you can re-use all of these note cards plus one additional (essentially up to four note cards for the final). The final will include two sections. The first section covers the material learned in the last few days of class. The second section is a cumulative portion covering all material covered in the class.

**Please Note**, missing an exam will result in a score of zero for that exam. I do not allow make up exams during the semester. So, if you miss an exam you get a grade of zero. However, the grade you get on the cumulative final can be used to replace your lowest exam score.

**Projects:**

There will be up to three projects in class that are designed to challenge your problem solving and data manipulation skills. These projects will be setup to allow you the freedom to be independently creative and explore the connection between weather and statistics.

**Reading:**

It is expected that all students will read assigned sections prior to class and come prepared to participate and discuss the material. Consult the table at the end of this syllabus for more information. Additional readings may be announced in class.

**Attendance and Make-up Work:**

Attendance and the completion of assignments on time is critical to your success in this class. Past experience has shown that students who miss class usually perform poorly on exams. It is your responsibility to complete all assignments on time and show up for the in class exams. **I do not give make-up exams.** However, I know things can happen and that is why I permit the grade that you receive on the cumulative portion of the final can be used to replace the lowest exam grade during the semester.

**Academic Integrity:**

Students are expected to adhere to the Academic Integrity policies of Roanoke College. No electronic devices other than a calculator can be taken out during testing time (this includes cell phones). Please note, that looking at a cell phone during an exam is a violation of Academic Integrity regardless of your purpose. Further, you are not allowed to leave class during an exam until you have finish and turned in your work.

**Student Resources:**

- Center for Learning and Teaching ○  
Subject Tutoring ○ Writing Center
  - Online at [ [roanoke.edu/inside/clt](http://roanoke.edu/inside/clt) ] ○
  - email: [clt@roanoke.edu](mailto:clt@roanoke.edu)
- Student Support Services ○ email:  
[sbrown@roanoke.edu](mailto:sbrown@roanoke.edu)

**Important Dates:**

Last day to add TR Class:	Monday,	Jan 22 by 4PM
Last day to drop before "W"	Friday,	Jan 26
Spring Break	Monday,	Mar 5 - Mar 9
Withdraw deadline	Friday,	Mar 16 by 4PM
Last day of Class	Monday,	Apr 23
Final Exam	Thursday,	Apr 26 (8:30 - 11:30AM)

**Statement of Work Load:**

A work load of at least 12 hours each week is expected inside and outside of class. I would further suggest you put in at least 6 hours of focused study prior to any exam.

**Course schedule:**

The following is a tentative schedule subject to change.

Part I		
Jan 15, 18	Chapter 1	Introduction
Jan 24, 26	Chapter 2	Graphs and Distributions
Jan 30, Feb 1	Chapter 10	Correlation and Regression
<b>Feb 6</b>	<b>Exam 1</b>	
Part II		
Feb 8, 13	Chapter 3	Data Description
Feb 15, 20	Chapter 6	Normal Distribution
Feb 22, 27	Chapter 4	Probability
Mar 1, 13	Chapter 5	Discrete Distributions
<b>Mar 15</b>	<b>Exam 2</b>	
Part III		
Mar 20, 22	Chapter 7	Confidence Intervals
Mar 27, 29	Chapter 8	Hypothesis Testing
Apr 3, 5	Chapter 9	Testing Differences
<b>Apr 10</b>	<b>Exam 3</b>	
Part IV		
<b>Apr 12, 16, 19</b>	<b>Chapter 11, 12 Final</b>	<b>Chi-Squared and ANOVA</b>