

## SOCI 3280: Quantitative Data Analysis – Fall 2020

### Course Instructor and Contact Information

**Instructor:** Dr. Cynthia M. Cready, Associate Professor

**Campus Office Location:** 288F Sycamore Hall, Department of Sociology, College of Liberal Arts and Social Sciences, University of North Texas (UNT)

**Campus Office Phone:** (940) 369-8791

**Virtual Office Hours:** Thursdays 4:00-5:00PM and by appointment. For both regularly-scheduled and by-appointment office hours, the instructor will send a Zoom meeting invitation to your UNT email address via the Canvas messaging system. You can access the Zoom meeting from the course website in Canvas. For details, go to [Instructions for Zoom Access via Canvas for UNT Students](#).

**Email:** Use the Inbox button in Canvas to email the instructor. When you send your message, it will go to the instructor's UNT email address. The Inbox button (represented by the box with sheet of paper sticking up out of it icon) is located on the left side of your computer screen after logon to Canvas. The instructor will make every effort to respond to your message within 24 hours.

### Course Prerequisite

Must have passed SOCI 3220 Quantitative Data Collection or equivalent with a "C."

### Course Description

This course is an introduction to descriptive and inferential statistics used in analyses of data in the social sciences. This course has an applied focus.

After completing the course, you should be able to:

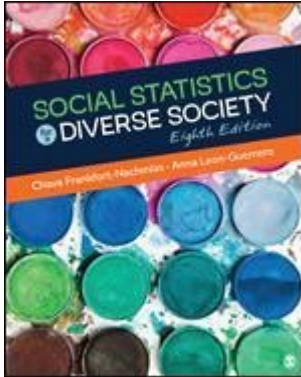
- Choose the appropriate statistics for a given research question;
- Calculate some of these statistics;
- Interpret the statistics calculated by yourself or generated by the instructor using SPSS (a popular statistical software package);
- Critically read and interpret published data analyses.

This course fulfills the College of Liberal Arts and Social Sciences requirement for Communication and Digital Skills. At the end of this course, you should be able to demonstrate effective communication using a digital technological platform and do at least two of the following:

1. Demonstrate the ability to communicate a central idea effectively using appropriate organization/structure.
2. Demonstrate the ability to develop content at an advanced level using a combination of effective supporting material.
3. Demonstrate the ability to engage in verbal and nonverbal communication behaviors that are appropriate for the audience and adhere to the conventions of the medium selected (written, oral, or visual).

## Required Materials

### Textbook



Frankfort-Nachmias, C., & Leon-Guerrero, A. (2018). Social statistics for a diverse society (8th ed.). Thousand Oaks, CA: Sage. ISBN 978-1-5063-4720-2 [hereafter referenced as SSDS].

### Calculator

You will need a simple calculator with a square root key.

### Packages of Colored Candies

For several of the lessons, you will need (unopened) personal-sized packages of colored candies (e.g., M&M's® or Skittles®).

## Course Delivery & Organization

The course will be delivered entirely online via [Canvas](#). Each week's lesson and associated discussion board posts, assignments, and quizzes (discussed below in the Course Requirements & Grading section of the syllabus) will be released every Monday at 8:00AM according to the attached schedule. Each week's discussion board posts, assignments, and quizzes will be due on the Sunday following their release at 11:59PM.

To get started, click on the About Canvas link on the Welcome page of the course website in Canvas to learn about the course delivery platform. See also the short video 8 Tips for Succeeding in Your Online Class and other helpful resources on the [Learn Anywhere UNT](#) website.

To learn more about the course go to the Start Here heading on the Modules page of the course website in Canvas. In the Start Here section, you will find a downloadable .pdf of the course syllabus, as well as the Stats Proficiency Pre-Test. The Stats Proficiency Pre-Test is required for department audit purposes. You will earn 10 points towards your final grade in the course for submitting the pre-test. Note: You will not be able to access the Lesson 1 Module until you have taken the pre-test.

## Course Technology & Skills

### Minimum Technology Requirements

- Computer
- Reliable internet access
- [Canvas Technical Requirements](#)

### **Computer Skills & Digital Literacy**

Course-specific technical skills learners must have to succeed in the course:

- Using Canvas
- Using email with attachments
- Saving documents as pdf files

### **Technical Assistance**

Part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

**UIT Help Desk:** [UIT Student Help Desk website](#)

**Email:** helpdesk@unt.edu

**Phone:** (940) 565-2324

**In Person:** 130 Sage Hall

**Walk-In Availability:** 8am-9pm

**Telephone Availability:**

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

**Laptop Checkout:** 8am-7pm

For additional support, visit [Canvas Technical Help](#).

## **Course Requirements**

### **Stats Proficiency Pre-Test**

As mentioned above, submission of the Stats Proficiency Pre-Test is required for department audit purposes. You must submit it to access the Lesson 1 Module and its associated activities and assignments.

### **Reading Assignments**

You are responsible for reading the assigned materials during the week indicated on the attached course outline.

### **Weekly Lessons**

Each week's lesson can be found on the Modules page on the course website in Canvas. A list of associated assignments is provided on the last page of each lesson, and the assignments themselves can be found after the Lesson Files Download subheading for the lesson. Click through the arrows in the lesson, go over the learning checks, and make sure you understand the material before beginning the assignments. PLEASE NOTE: It is strongly recommended that you do not wait until Saturday and Sunday to begin your work for the week!

### **Weekly Discussions**

There will be one discussion forum assignment for each of the 13 weekly lessons. There will be no discussion forum assignment the week of the first exam, the second exam review week, and the week of the second exam. (See the attached course outline for specific dates.) Each lesson's discussion will open on Monday 8:00AM and close six days later on the following Sunday at 11:59PM. You can access a discussion by clicking on the dedicated link for it on the Discussions page of the course website in Canvas. Be sure to follow the posted instructions. Points will be deducted for discussions posted past their due date. Every effort will be made to provide feedback on a discussion before the next week's discussion is due. All discussion forum assignments (@ 10 points each) will count towards your course grade for a total of 130 points.

### **Weekly Assignments**

There will also be one assignment/problem set for each weekly lesson. These assignments/problem sets will help you apply what you learn in "class" and prepare you for the quizzes and exams. The lessons can be found on the Modules page of the course website in Canvas. You can access a lesson's assignment by clicking on the dedicated submission link for it in the lesson on the Modules page of the course website in Canvas. Each weekly assignment will open on Monday 8:00AM and close six days later on the following Sunday at 11:59PM. Your answers to the assignment's questions should be numbered and typed in complete sentences and all pages saved as one .pdf file using your last name and the lesson number (e.g., YourlastnameLesson1). Use the dedicated submission link provided for the assignment/problem set on the Modules page of the course website in Canvas to submit your .pdf file of answers as an attachment. Points will be deducted for weekly assignments submitted past their due date. Every effort will be made to provide feedback on an assignment/problem set before the next week's assignment/problem set is due. All weekly assignments (@ 10 points each) will count towards your course grade for a total of 130 points.

### **Weekly Quizzes**

There will also be an online quiz for each week's lesson. You can access the quiz by clicking on the dedicated link for it on the Modules page of the course website in Canvas. Each quiz will open on Monday 8:00AM and close six days later on the following Sunday at 11:59PM. You are given three attempts for each quiz. The attempts are open book and notes and will not be timed. Only the attempt with the highest grade will be used towards your course grade. However, please note that each time you take a quiz the multiple choice, true/false, matching, and fill-in-the-blank questions will be randomly drawn from that week's quiz item pool. Therefore, you may get a slightly different set of questions each time you take it. Permission to "make-up" a missed quiz will only be given for university-approved reasons. All weekly quizzes (@ 10 points each) will count towards your course grade for a total of 130 points.

### **Research Applications**

There will be 5 research applications (@ 10 points each) for a total of 50 points. The research applications will involve reading assigned articles (or portions of articles) and answering a series of questions about them. Other questions will ask you to interpret tables or figures excerpted from an article. Each research application will open on a Monday at 8:00AM and close six days later on the following Sunday at 11:59PM. You can access a research application by clicking on the dedicated submission link for it on the Modules page of the course website in Canvas. Answers to the questions for the research application should be numbered and typed in complete sentences and all pages saved as one .pdf file using your last name and the assignment title (e.g., YourlastnameRA1). Use the dedicated submission link provided for the research application on the Modules page of the course website in

Canvas to submit your .pdf file of answers as an attachment. Points will be deducted for research applications submitted past their due date. Every effort will be made to provide feedback on a research application before the next research application is due.

### Getting Help with a Post, Assignment, Quiz Question, or Research Application

If you need help with a post, assignment/problem set, quiz question, or research application, contact the instructor by using the Inbox button in Canvas. When you send your message to the instructor using this function, it will go to the instructor’s UNT email address. Every effort will be made to respond to your email within 24 hours. You may also make an appointment to meet with the instructor online via Zoom. PLEASE NOTE: You may not copy another student’s work or allow another student to copy yours. Both giving/getting unauthorized help and copying another student’s work are violations of UNT’s [Code of Student Conduct](#).

### Examinations

There will be two exams (@ 100 points each) for a total of 200 points. Approximately two-thirds of the questions on the exams will come from the weekly quiz question pools. You can access the exams by clicking on the dedicated submission link for each exam on the Modules page of the course website in Canvas. The exams are open book and open notes. They are timed (90 minutes) and can be accessed only one time within the scheduled time window (i.e., not multiple times as with the weekly quizzes). Thus, please read the on-screen instructions carefully before you click “Begin.” The first exam for the course will be released **Thursday, October 8th at 8:00AM** and close on **Sunday, October 11th at 11:59PM**. The second exam will be released **Monday, December 7th at 8:00AM** and close on **Thursday, December 10th at 11:59PM**. Make sure you are using a reliable internet connection. Permission to “make-up” a missed exam will only be given for university-approved reasons.

### Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will extend the time windows and provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and contact the UNT Student Help Desk: [helpdesk@unt.edu](mailto:helpdesk@unt.edu) or (940) 565-2324 and obtain a ticket number. The instructor and the UNT Student Help Desk will work with the student to resolve any issues at the earliest possible time.

## Evaluation

Point values for each of the course requirements and the grading scale for the course are given below.

### Point Values for Course Requirements

Requirement	Possible Points
Stats Proficiency Pre-Test	10
Lesson Discussions (13 @ 10 points each)	130
Lesson Assignments (13 @ 10 points each)	130
Lesson Quizzes (13 @ 10 points each)	130
Research Applications (5 @ 10 points each)	50
Exams (2 @ 100 points each)	200
TOTAL	650

### Course Grading Scale

Total Points Earned	Final Course Grade
585 or more	A
520 – 584	B
455 – 519	C
390 – 454	D
389 or fewer	F

## UNT Policies

### Academic Integrity

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University. In this course, a graded assignment compromised by academic dishonesty will earn a zero.

### Disability Access

UNT makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information, refer to the [Office of Disability Access](#).

### Prohibition of Discrimination, Harassment, and Retaliation

According to UNT Policy 16.004, Prohibition of Discrimination, Harassment, and Retaliation, UNT prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

### Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to the course website on Canvas for contingency plans for covering course materials.

### Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed

via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

### **Acceptable Student Behavior**

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](#) to learn more.

### **Access to Information - Eagle Connect**

Students' access point for business and academic services at UNT is located at: [my.unt.edu](http://my.unt.edu). All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](#).

### **Policy on Server Unavailability or Other Technical Difficulties**

The University of North Texas is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will extend the time windows and provide an appropriate accommodation based on the situation. You should immediately report any problems to the instructor and also contact the UNT Student Help Desk: [helpdesk@unt.edu](mailto:helpdesk@unt.edu) or (940) 565-2324. Obtain, record, and retain your incident report number from the UNT Student Help Desk. The instructor and the UNT Student Help Desk will work with you to resolve any issues at the earliest possible time.

### **Retention of Student Records**

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Coursework completed via the Canvas on-line system, including grading information and comments, is also stored in a safe electronic environment. You have a right to view your individual record; however, information about your records will not be divulged to other individuals without the proper written consent. You are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See [UNT Policy 04.008, Records Management and Retention](#), for additional information.

### **Sexual Assault Prevention**

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual

harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at [SurvivorAdvocate@unt.edu](mailto:SurvivorAdvocate@unt.edu) or by calling the Dean of Students Office at (940) 565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at [oeo@unt.edu](mailto:oeo@unt.edu) or at (940) 565-2759.

### **Student Evaluation Administration Dates**

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. For the Fall 2020 semester, the surveys will be made available November 16 – December 3. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" ([no-reply@iasystem.org](mailto:no-reply@iasystem.org)) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](#) or email [spot@unt.edu](mailto:spot@unt.edu).

### **Student Verification**

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses. See [UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses](#).

## **Important Notice for F-1 Students taking Distance Education Courses**

### **Federal Regulation**

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the [Student and Exchange Visitor Program](#) website. The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f) (6) (G).

The paragraph reads:

For F–1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F–1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

### **University of North Texas Compliance**

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in



advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

1. Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
2. Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the UNT International Student and Scholar Services (ISSS) Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about their need to participate in an on-campus experiential component for this course, they should contact the UNT ISSS Office ([internationaladvising@unt.edu](mailto:internationaladvising@unt.edu)) to get clarification before the one-week deadline.

## Academic Support & Student Services

### Student Support Services

- [Student Health and Wellness Center](#)
- [Counseling and Testing Services](#)
- [UNT Care Team](#)
- [UNT Psychiatric Services](#)
- [Individual Counseling](#)
- [Registrar](#)
- [Financial Aid](#)
- [Student Legal Services](#)
- [Career Center](#)
- [Multicultural Center](#)
- [Counseling and Testing Services](#)
- [Pride Alliance](#)
- [UNT Food Pantry](#)

### Academic Support Services

- [Academic Resource Center](#)
- [Academic Success Center](#)
- [UNT Libraries](#)
- [Writing Lab](#)

NOTE: The following schedule is subject to change. Any changes will be announced and posted in Canvas.

## Weekly Class Schedule

Week	Topic	Reading Assignment	Due	Released
Week 1 Aug. 24 – Aug. 30	Welcome Letter Review Syllabus Lesson 1, The What & Why of Statistics	SSDS, Chapter 1	<b><u>Due 08/30, 11:59PM</u></b> Stats Pre-Test Lesson 1 Post Lesson 1 Assignment Lesson 1 Quiz	Stats Pre-Test & Lesson 1 (once the Stats Pre-Test has been submitted)
Week 2 Aug. 31 – Sep. 6	Lesson 2, Frequency/ Percentage Distributions & Graphs	SSDS, Chapter 2	<b><u>Due 09/06, 11:59PM</u></b> Lesson 2 Post Lesson 2 Assignment Lesson 2 Quiz Research Application 1	Lesson 2 & Research Application 1
Week 3 Sep. 7 – Sep. 13	Lesson 3, Measures of Central Tendency & Variability	SSDS, Chapters 3 & 4	<b><u>Due 09/13, 11:59PM</u></b> Lesson 3 Post Lesson 3 Assignment Lesson 3 Quiz Research Application 2	Lesson 3 & Research Application 2
Week 4 Sep. 14 – Sep. 20	Lesson 4, The Normal Curve	SSDS, Chapter 5	<b><u>Due 09/20, 11:59PM</u></b> Lesson 4 Post Lesson 4 Assignment Lesson 4 Quiz	Lesson 4
Week 5 Sep. 21 – Sep. 27	Lesson 5, Sampling & Sampling Distribution	SSDS, Chapter 6	<b><u>Due 09/27, 11:59PM</u></b> Lesson 5 Post Lesson 5 Assignment Lesson 5 Quiz	Lesson 5
Week 6 Sep. 28 – Oct. 4	Lesson 6, Estimating Population Means	SSDS, Chapter 7	<b><u>Due 10/04, 11:59PM</u></b> Lesson 6 Post Lesson 6 Assignment Lesson 6 Quiz Research Application 3	Lesson 6 & Research Application 3
Week 7 Oct. 5 – Oct. 11	First Exam Review & First Exam	Review SSDS, Chapters 1-7	<b><u>Due 10/11, 11:59PM</u></b> First Exam	First Exam (10/08 at 8:00AM)
Week 8 Oct. 12 – Oct. 18	Lesson 7, Introduction to Hypothesis Testing – The One-Sample $t$ Test	SSDS, Chapter 8 (pp. 203 – 214)	<b><u>Due 10/18, 11:59PM</u></b> Lesson 7 Post Lesson 7 Assignment Lesson 7 Quiz	Lesson 7 & Research Application 4

Week 9 Oct. 19 – Oct. 25	Lesson 8, Hypothesis Testing – The Two-Sample $t$ Test	SSDS, Chapter 8 (pp. 214 – 234)	<b><u>Due 10/25, 11:59PM</u></b> Lesson 8 Post Lesson 8 Assignment Lesson 8 Quiz Research Application 4	Lesson 8
Week 10 Oct. 26 – Nov. 1	Lesson 9, The Bivariate Table	SSDS, Chapter 9 (pp. 235 – 246)	<b><u>Due 11/01, 11:59PM</u></b> Lesson 9 Post Lesson 9 Assignment Lesson 9 Quiz	Lesson 9 & Research Application 5
Week 11 Nov. 2 – Nov. 8	Lesson 10, The Chi-Squared Test	SSDS, Chapter 10	<b><u>Due 11/08, 11:59PM</u></b> Lesson 10 Post Lesson 10 Assignment Lesson 10 Quiz Research Application 5	Lesson 10
Week 12 Nov. 9 – Nov. 15	Lesson 11, Elaboration Analysis	SSDS, Chapter 9 (pp. 246 – 268)	<b><u>Due 11/15, 11:59PM</u></b> Lesson 11 Post Lesson 11 Assignment Lesson 11 Quiz	Lesson 11
Week 13 Nov. 16 – Nov. 22	Lesson 12, Correlation: The Scatter Plot	SSDS, Chapter 12 (pp. 325 – 327)	<b><u>Due 11/22, 11:59PM</u></b> Lesson 12 Post Lesson 12 Assignment Lesson 12 Quiz	Lesson 12
Week 14 Nov. 23 – Nov. 29	Lesson 13, Correlation: The Pearson Correlation Coefficient	SSDS, Chapter 12 (pp. 345 – 346, 349 – 350)	<b><u>Due 11/29, 11:59PM</u></b> Lesson 13 Post Lesson 13 Assignment Lesson 13 Quiz	Lesson 13
Week 15 Nov. 30 – Dec. 6	Second Exam Review	Review SSDS, Chapters 8 – 10 & 12		
Week 16 Dec. 7 – Dec. 11	Second Exam		<b><u>Due 12/10, 11:59PM</u></b> Stats Post-Test Second Exam	Stats Post-Test Second Exam (12/07 at 8:00AM)