



Syllabus-Fall 2021

Title of Course-Section:	MATH 1350-501 (Statistics)
Name of Department:	Mathematic, Engineering, & Computer Science
Instructor:	Andisheh Dadashi, Assistant Prof. of Mathematics
E-Mail:	andisheh@unm.edu
Division chair:	Elaine Clark, ewclark@unm.edu
Class Meeting Days/Times:	Remote Arranged: MW 10:30 am to 11:45 am
Credit Hours :	3 credit hours
Class Location:	Online (UNM Learn)
Office Location:	Online (UNM Learn)
Office Hours:	Mondays and Wednesdays: 8 am to 10:30 am (On Zoom) or by appointment

Note: The instructor reserves the right to change the syllabus at any point of time during the semester.

Get to know your instructor:

Andisheh Dadashi earned her bachelor's degrees in Mathematics and Statistics from a ranked university in her native Iran. After finishing her undergraduate degrees, she studied abroad in India where she earned her first Master's degree in Statistics. She later moved to the USA to pursue a Ph.D. in Statistics at the University of New Mexico (UNM) and in 2016, she was offered a faculty position as a visiting Lecturer II at UNM-Gallup after receiving her second Master's degree in Statistics.

Andisheh is a strong advocate of higher education and is following her mother's footsteps who was also a University professor in Iran. Because STEM education is becoming increasingly interdisciplinary, Andisheh sought to complement her background in mathematics and statistics with computer science and is eager to integrate data science into her curriculum. Andisheh is currently working on a Ph.D. in computer science and her research includes astrobiology and biomedical informatics while concurrently teaching mathematics, statistics, and computer programming at UNM-Valencia.

To know **Andisheh** watch this video [Click on this link](#)

**** Email ****

When emailing me, in subject of your email, please write down your course name, number, and section number. For example, the subject of your email to me should be: **MATH 1350-501**

You must only contact me with your **UNM e-mail**. Check your **UNM email frequently**. You are responsible for missing any announcement I sent via email or UNM Learn. Failure to identify your message with the class number, and not using your UNM email will result in no response at all.

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Syllabus quiz

Please, read this Syllabus thoroughly and take the Syllabus quiz on UNM Learn before the due date. Questions will be based on the information in this syllabus.

You have until the end of the first week of classes to finish the quiz. After the due date, quiz will disappear. Syllabus quiz is timed and you have only one trial. Grade of the Syllabus quiz will be part of your overall grade.

This course is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world. Students also have the opportunity to analyze data sets using technology in their weekly laboratory discussions.

General Education Core Curriculum Essential Skills

In addition to the course learning objectives listed above, because this class meets a UNM General Education Core Curriculum requirement, activities in each unit (i.e.: discussions, assignments, and assessments) are developed so that you can demonstrate development of these essential skills:

Critical Thinking

- o Problem Setting: Delineate a problem or question to be considered critically.
- o Evidence Acquisition: Identify and gather the information/data necessary to coherently address the problem or question.
- o Evidence Evaluation: Evaluate the information given by sources for credibility (e.g. bias, reliability, validity) and probably truth.
- o Reasoning/Conclusion: Develop conclusions and outcomes that reflect an informed, well-reasoned argument.

Communication

- o Genre and Disciplinary Conventions: Use formal and informal rules/registers appropriate for the particular audience, community, purpose, context, and kind of text and/or media at hand; use them to guide formatting, organization, and stylistic choices are present.
- o Strategies for Understanding and Evaluating Messages: Apply strategies such as reading/analyzing for main points or themes; recognizing the variety of rhetorical situations and accompanying strategies that may contextualize messages; locating supportive documentation for arguments to understand and evaluate messages in terms of the rhetorical situation.
- o Evaluation and Production of Arguments: Recognize and evaluate the authority of sources in their own arguments and those of others; distinguish among supported claims, unsupported claims, facts, inferences, and opinions.

Quantitative Reasoning

- o Communication and/or Representation of Quantitative Information: Express quantitative information symbolically, graphically, and in written or oral language
- o Analysis of Quantitative Arguments: Interpret, analyze and critique information or a line of reasoning presented by others
- o Application of Quantitative Models: Apply appropriate quantitative models to real-world or other contextual problems

Pre-requisites/Co-requisites:

*MATH 1130 is NOT a prerequisite for MATH 1350. Successful completion of MATH 1170 or (MATH 1215X +1215Y) or MATH 1215 or MATH 1220 or MATH 1230 or MATH 1240 or MATH 1250 or MATH 1430 or MATH 1440 or MATH 1512 or MATH 1522 or MATH 2530, or minimum ACCUPLACER score of ≥ 262 (QRAS) or ≥ 233 (A&F), or ACT score of ≥ 20 , or SAT score of ≥ 520 .

Techniques for the visual presentation of numerical data, descriptive statistics, introduction to probability and basic probability models used in statistics, introduction to sampling and statistical inference illustrated by examples from a variety of fields.

Course Description: This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields.

- Students will explain the general concepts of statistics. (Ch 1)
- Students will presentation and description of data. (Ch 1 & Ch 2)
- Students will summarize data using measures of central tendency and variation. (Ch 2)
- Students will present the concepts of probability. (Ch 3)
- Students will calculate probabilities using the standard normal distribution and relate them to areas under the curve. (Ch 3)
- Students will give examples of independent and dependent variables. (Ch 4)
- Students will calculate and interpret the linear correlation coefficient. (Ch 5)
- Students will analyze data using regression and correlation. (Ch 4 & Ch 5)
- Students will distinguish between populations and samples, and parameters and statistics. (Ch 15)
- Students will interpret basic probabilities. (Ch 12)
- Students will analyze the differences between two categorical variables (Ch 25)
- Students will describe the relationship between the sampling distribution and the population distribution. (Ch 15)
- Students will compute point and interval estimates. (Ch 16)
- Students will perform hypothesis tests. (Ch 17 & Ch 20)

Instructor's Availability Via email

- The best way of contacting me will be via message portal on UNM Learn.
- In all cases please, give me 24 hours to 48 hours to reach back to you.
- I will be available via email during the day until 4 pm as long as I am not in the classroom teaching.
- I will not be able to respond to any email on Saturday and Sunday.
- Please be patient and give me 24 hours to 48 hours to reach back to you.

Evaluation/Grading Methods

Your final grade in this class is based on the following components:

Online Homework (25%) and online Quizzes (15%)	40 %
Projects (2)	29 %
Midterm	15 %
Final test	15 %
Syllabus quiz	1%

Overall Grade and Letter Grade

Passing grade is 70% or better.

Overall Grades: pluses and minuses may or may not be added to letter grades at the instructor's discretion. Grades of A+ are not rare and will only be awarded for exceptional work.

Grade	From	To	Grade	From	To	Grade	From	To
A+	98	100	B+	88	89.99	C+	78	79.99
A	93	97.99	B	83	87.99	C	70	77.99
A-	90	92.99	B-	80	82.99	D	60	69.99

Where do you find your grade?

In Achieve: On the left side of the main page you will see an option named "Grade Book". Your Up to dated grade can be find in your grade book

Book and Package: The Basic Practice of Statistics (ninth edition: ISBN 978-1-319-38395-4 (ePub)), Achieve Package (e-book).

Achieve is the online learning system which accompanies the textbook and includes an e-book. Achieve is required for MATH1350 (Stat145). If you don't use Achieve, your Achieve Assignments scores will be 0s, which is 40% of your course overall grade.

Access Code:

Achieve Access codes are available from the UNM bookstore, or the publisher (Online), or with a lower price through inclusive access. If you decide to buy the package using the other path please use the ISBN mentioned above. Hard text copies are not required since Achieve includes an e-book.

Student Instruction :

My online course is open for student registration. Follow these steps to get started.

- Go to <https://achieve.macmillanlearning.com/start> [Click Here!](#) to log in or create an account. (Use your UNM-Email)
- Under Enroll in a new course, you should see Courses at University of New Mexico, Valencia. Click to expand this list and see courses arranged by subject. Click on 'Introduction to Statistics' to see the terms that courses are available.
- Once the menus are fully expanded, you'll see a link to our specific course:

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- If you prompted to enter the key code when you choose your specific course in Achieve Learning at the time of enrollment

The course id is: **te5bda**

Key Code:

If required, Key code is your section number: **501**

Where is your e-book?

- To access your e-book, click on the e-book option on the left sidebar of your course site. Create an account or log in with an existing Macmillan Learning eBook account.

Introduction to Assessments for students on Achieve Learning:

Please follow the links bellow in order to know how to use Achieve learning:

Registration information [Click here](#)

Achieve FDOC slides for LMS integration (inclusive access): [Click here](#)

Inclusive Access (IA)

If your course comes with Inclusive Access (IA) you will receive an email that contains instructions for inclusive access to the book via the RedShelf on UNM Learn. Please, read the instructions carefully and follow what is required to have access to the book at a discounted price.

Temporary Access for the Achieve

If you are not able to purchase Achieve access code right away, you can have temporary access to our online Achieve course using the temporary access while you're following the instruction above. The temporary access starts on the first day of class and expires after 15 days.

When you purchase the access code you can continue your access to the Achieve. In this case, you must continue using the same email address (UNM-Email) that you were using to get the temporary access otherwise you will lose your work on Achieve.

Achieve Support

- Need Help? The Achieve Learning technical support team can be reached by phone or by webform via the Student Support Community. Here are their hours and contact information:

<https://macmillan.force.com/macmillanlearning/s/achieve>

Phone: (800) 936-6899

Warning: Achieve will not work with Ipad, Phone or these sorts of devices. Also on some laptops it may ask for some setting. Also, make sure you are allowing popups. Please, follow the instructions showing in error message or if you cannot figure it out contact tech support Mentioned here [“Achieve Support”](#).

Where do you find your online assignment? You can find your online assignments on Achieve. On the main page, you can scroll down to find all the chapters that we are covering in this class. For each chapter, you will find Homework and Quiz which is assigned and has a due date in front of that. Homework and Quiz are the only mandatory online assignments and will be part of your overall grade. (40%)

The rest of the activities are only for your practice and will not count as your grade.

For each chapter assignments (Homework and online Quizzes) will be assigned in Achieve and will be graded automatically. Points and the number of assignments will vary.

For homework, you have infinite trials and it is not timed.

For quizzes, you have three trials, for each wrong answer you lose 5% of the question's point, but the quiz is not timed.

Due Dates: For assignments, you will have an initial due date and a final due date. You can find the due dates on Achieve's main page as mentioned [“here”](#).

When you exceed the initial due date you will receive a 10% penalty for each day of delay before the final due date. You should be done with your assignments before the final due dates otherwise you will receive a zero.

After the final due dates, no assignment is accepted!

This method keeps us up to date with our assignments and not letting ourselves get behind. Please, don't ask for an extension because it won't be fair to other students who are always on time.

How to be successful taking your online Assignments: After each lecture read the notes, finish the Learning curves and Stat Tutors (You can find a learning Curve and Stat Tutor for each topic), take the homework, at the end take the Quiz. Stat tutors are not part of your grade but if you need more assistance you should go through the Stat tutors.

CrunchIt with Achieve!

CrunchIt! is a web-based statistical program that allows users to perform all of the statistical operations and graphing needed for an introductory statistics course.

Warning: CrunchIt will sometimes not work with Internet Explorer. It will ask for Java to be downloaded, or some such message. Unfortunately, downloading Java does not help. However, if you use Mozilla Firefox, CrunchIt works like a charm. And, here is the [Crunch It!](#)

Please watch the videos I have made for you and uploaded on YouTube:

[Click on this link](#) Achieve tour and Crunch It for chapter 01.

[Click on this link](#) Crunch It for chapter 02.

[Click on this link](#) Crunch It for chapter 03.

[Click on this link](#) Crunch It for chapter 04 and 05.

Projects

There are a total of 2 projects for this course. Projects are part of your overall grade. I will assign the Project as early as the semester starts so you can have a look at them. Projects are a combination of practical questions and Statistical thinking. There are some hands-on activities also in a couple of these projects so please dedicate a reasonable amount of time ahead of the due date to be able to prepare what you may need.

You can ask your classmate to work on each project in a group but your data set must be different and you must explain the outcome based on your understanding and not copying others' responses. Any plagiarism count as cheating according to the "[Academic dishonesty](#)" section.

Projects outcome MUST be typed in a word document and not hand written. You will receive a zero for a hand written project

For each Project, you will have almost three weeks starting from the day I begin teaching a topic related to the project. This means as soon as I begin teaching a chapter you are assumed to begin working on your project and ask me your questions. The table below explains the Projects' contents

Project 1: Chapter 1, and Chapter 2

Project 2: Chapter 4, Chapter 5, Chapter 8, and Chapter 9

Where do you find the Projects?

On UNM Learn there is a folder named project. You can find the projects and more information in this folder.

Where do you submit the Projects?

Projects outcome MUST be typed in a word document and not hand written. You will receive a zero for a hand written project

When you finish your project and have responded to all the questions save it as a pdf and upload it to Project submission portal. You can upload your project as many time as you wish before the due date. I will only review your last attempt.

Due dates:

Due dates are due to the change but we try to stay on top of our schedule. Remember please, all the due times are at 8 am! Have a look at the "[Course Schedule](#)"

Due dates are very important. After the due date, no project is accepted to be fair to all the students who work very hard.

Midterm and Final test

You will have midterm and final online exam. Each accounts for 15% of your overall grade. Midterm will be from chapter 12, 3, and 15. The Final exam will be from chapters 12, 3, 15, 16, and 17. There will be a maximum of 10 practical questions which you need to solve.

The Midterm and Final exam will appear on Achieve during the due day. Exams will be timed. It will appear at 12:00 am on the exam day and will be due at or before 11:59 pm on the same day. You will have one hour and 45 minutes to finish your exam.

Have a look at the "[Course Schedule](#)" for more information regarding the due date.

Calculator

A scientific calculator may be used on all homework and exams. A calculator with statistical functions (mean, standard deviation, etc.) is recommended but not required. Use of cell phone calculators or calculators on other WIFI-capable devices is not allowed.

Support!

If you have a documented disability, the Equal Access Services office will provide me with a letter outlining your accommodations. I will then discuss the accommodations with you to determine the best learning environment. If you feel that you need accommodations, but have not documented your disability, please contact Cheryl Dilger, the coordinator for Equal Access Services at 925-8910 or cdilger@unm.edu.

If you are struggling in this course, do not be afraid to ask for help!

- Office Hours: See my office hours listed at the beginning of this syllabus. “Office Hours” Feel free to come by or log in for online office hours, or make an appointment to get help.
- Form study groups: You may work together with other members of our class on UNM Learn discussion board.
- Free Tutoring: The Math Center at Valencia campus has free tutoring and open labs. Call 505-925-8907 for more information. CAPS on main campus also provides tutoring for which I can get documentation. “LRC”
- Student Services: There are various services provided in our Student Services Department. Read about “ARC” equal access Services. Also, we have a testing center, advising, and career placement available: Valencia Student Services.

Teaching Materials

Where can you find the materials for this class?

- a. You can find my lectures note/ Pdf in the Notes on UNM Learn in a folder named notes.
- b. You can find all the lecture videos on UNM Learn in a folder named videos.
- c. There are some PowerPoint and image and clicker slides on the home page of Achieve provided by Macmillan Learning you may find useful. You can find them all in the resource section on the homepage
- d. UNM Mathematics and Statistics department has provided the past exams. [Click Here!](#)
- e. There are StatTutors/videos provided by MacMillan publisher for each chapter. StatTutors will help you to enhance your learning. StatTutors are accessible on the Achieve homepage under each chapter’s resource section.
- f. Learning Curves which doesn’t count as a part of your overall grade are the best resource to practice the chapter content. It shows you the weakness or strength in a certain section of a chapter. It will give you more questions from the section that you need to work on more. Learning curves are accessible on Achieve’s homepage, under each chapter’s section.

Lectures videos of the previous semester will be available on this YouTube channel: [Click Here!](#)

UNM Learn (Blackboard) Course information including this syllabus, Syllabus quiz, and all the necessary links, etc. will be available via Blackboard.

According to the Code of Conduct as stated in the Policies and Regulations for UNM, student activities that interfere with the rights of others to pursue their education or to conduct their University duties and responsibilities will lead to disciplinary action.

This includes any activities that are disruptive to the class and any acts of academic dishonesty. Students are expected to behave in a courteous and respectful manner toward the instructor and their fellow students. Students may be dropped from a class for inappropriate behavior. For more information: [Click Here!](#)

Since we assume you are all adults, we will expect from you, respectful adult behavior. Engaging in disruptive or unruly behavior could result in your being asked to leave, at which time you will be counted absent and a referral will be sent to the Associate Dean of Student Services. Continuing to behave in this way could result in your being dropped from the course. Disruptive or unruly behavior includes but is not limited to:

- texting or talking on your cell phone or Laptop at any time during class,
- continually talking with your neighbor when we are not working on a group activity,
- working on homework from another class,
- reading material or watching media on a mobile device not related to this course or at a time that is inappropriate,
- refusing to participate in the class activities.

Academic Dishonesty

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy: [Click Here!](#)

The policy states: Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

Academic Dishonesty is defined as:

“Academic dishonesty“ includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Cheating students will be prosecuted according to University guidelines. Students should get acquainted with their rights and responsibilities as explained in the Student Code of Conduct [Click Here!](#)

UNM Valencia Title IX Representative

Title IX (9) Statement: In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see pg. 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: [Click Here!](#)

Your Responsibility

EXPECTATIONS: Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent and be out of sight during class. No food or drink is allowed in the computer labs.

Time required for This Course: Plan to spend a minimum of 9 to 12 hours per week for this class. There is no guarantee you will pass if you dedicate this amount of time, you still need to learn the material and use your time wisely, but those who pass generally are the ones who spend the time needed to do the work to learn the material.

You are responsible for all material covered in this Syllabus and in class, in assigned readings, and on homework assignments. Not all material on tests will necessarily be covered in class but will be in the assignments. The use of cell phones, headphones, etc. is not permitted in class or exams.

Disabilities Policy: (ARC)

Contact Equal Access Services at 925-8560 to schedule an appointment. [Click Here!](#)

The Center for Academic Learning

The Learning Center is open Monday – Friday with evening hours Monday – Thursday To schedule an appointment or for additional information call (505)-925-8907 [Click Here!](#)

UNM Valencia Registrar’s Office

Contact Registration Office by calling 925-8580 [Click Here!](#)

UNM Deadlines & Academic Calendar

UNM Deadlines:[Click Here!](#)*And....* **Academic Calendar:**[Click Here!](#)

Library

We have a library at UNM-Valencia. You should already know where the library is.

UNM Administrative Mandate on Required Vaccinations: All students, staff, and instructors are required by UNM Administrative Mandate on Required Vaccinations to be fully vaccinated for COVID-19 as soon as possible, but no later than September 30, 2021, and must provide proof of vaccination or of a UNM validated limited exemption or exemption no later than September 30, 2021 to the UNM vaccination verification site. Students seeking medical exemption from the vaccination policy must submit a request to the UNM verification site for review by the UNM Accessibility Resource Center. Students seeking religious exemption from the vaccination policy must submit a request for reasonable accommodation to the UNM verification site for review by the Compliance, Ethics, and Equal Opportunity Office. For further information on the requirement and on limited exemptions and exemptions, see the UNM Administrative Mandate on Required Vaccinations. **UNM Requirement on Masking in Indoor Spaces:**

All students, staff, and instructors are required to wear face masks in indoor classes, labs, studios and meetings on UNM campuses, see masking requirement. Vaccinated and unvaccinated instructors teaching in classrooms must wear a mask when entering and leaving the classroom and when moving around the room. When vaccinated instructors are able to maintain at least six feet of distance, they may choose to remove their mask for the purpose of increased communication during instruction. Instructors who are not vaccinated (because of an approved medical or religious exemption), or who are not vaccinated yet, must wear their masks at all times. Students who do not wear a mask indoors on UNM campuses can expect to be asked to leave the classroom and to be dropped from a class if failure to wear a mask occurs more than once in that class. With the exception of the limited cases described above, students and employees who do not wear a mask in classrooms and other indoor public spaces on UNM campuses are subject to disciplinary actions. Communication on change in modality: The university may direct that classes move to remote delivery at any time to preserve the health and safety of the students, instructor and community. Please check your email and your UNM Learn site regularly for updates about our class, and please check <https://bringbackthepack.unm.edu> regularly for general UNM updates about COVID-19 and the health of our community.

Acceptable masks and mask wearing in class:

A two-layer mask that covers the nose and mouth and that is cleaned regularly is acceptable, as are disposable medical masks, KN95, KF94, FFP1 and FFP2 masks. A face shield is not sufficient protection. It is vital that you wear your mask correctly, covering your nose and mouth. Removing your mask for an extended period to eat or drink in class violates the university mask requirement and endangers others. Consequences of not wearing a mask properly: If you don't wear a mask, or if you do not wear a mask properly by covering your nose and mouth, you will be asked to leave class. If you fail to wear a mask properly on more than one occasion, you can expect to be dropped from the class. If you insist on remaining in the classroom while not wearing a mask, class will be dismissed for the day to protect others and you will be dropped from the class immediately. The instructor will try to have a few disposable masks available in the classroom on a first-come, first-served basis.

Chapters of Book

Our book has five partitions and there are various numbers of topics (Chapters) in each partition. These are the topics that we are going to learn in this semester.

Part I: Ch. 1 , Ch. 2 , Ch. 3 , Ch. 4 , and Ch. 5

Part II: Ch. 8 and Ch. 9

Part III: Ch. 12, Ch. 15, Ch. 16, and Ch. 17

Part IV: Ch.20

Math 1350 Schedule Fall 2021

Week of	Math 1350 Schedule Material Covered	(subject to change if necessary) Notes
Aug 23	Ch.1 Data Set, Types of Variables Ch.1 Picturing Distributions of Variables Ch.1 Interpreting Graphs Ch.2 Measures of Center Ch.2 Measures of Variability Ch.2 Five number Summary, Detecting Outlier Project01: Chapters 1 and 2 assignments	Find a data set for your Project 1 due Sep 20, 8am due Sep 20, 8am
	Ch.12 Introducing Probability Ch.12 Probability Rules Ch.3 The Normal (Z) Distributions Ch.3 Standardized Normal Distribution Ch.15 Central Limit Thm & Law of Large numbers Ch.15 Statistical inference Ch.15 Sampling Distributions	
	Midterm exam: Chapters 12, 3 and 15 assignments	due October 25, Any time due October 25, 8am
	Ch.4 Explanatory & Response Variables Ch.4 Measure of linear association: Correlation Ch.5 Regression lines Ch.5 Lets Find some relation! Ch.8 Population vs. Sample, SRS Ch.9 Experimental study	
	Project02: Chapters 4, 5, 8, and 9 assignments	due November 22, 8am due November 22, 8am
	Ch.16 Confidence Intervals: The Basics Ch.16 Confidence Intervals in Practice! Ch.17 Hypothesis test Ch.17 Tests of Significance: The Basics Ch.17 Lets Practice it!	
	Final exam Chapters 16 and 17 assignments	due December 13, Any time due December 13, 8am