

MA 200 Elementary Statistics

Amber Meis FORT HAYS TECH | NORTH CENTRAL

COURSE INFORMATION

This course covers topics related to distributions, measures of central tendency and dispersion, sampling methods, hypothesis testing, correlation, and regression. A good working knowledge of "intermediate" algebra is necessary for the successful student of introductory statistics. Students will apply these concepts to real world situations through applications, simulations and word problems.

Credits: 3

CLASS INFORMATION

Section Number: MA 200	Term: Summer	Year: 2025	Start Date: 6/2/2025	End Date: 7/25/2025

INSTRUCTOR

Amber Meis Email: <u>ameis@fhtechnc.edu</u> Office Phone: 7856236153 Office Location: Classroom A Office Office Hours: By appointment. Email is the best way to communicate with me (especially in Summer) and get in contact with me for the fastest response. My email is <u>ameis@fhtechnc.edu.</u> I do get back to students within 48 business hours.

TEXTBOOKS

Required-- Cengage Unlimited Single Term Access Code- ISBN 978-0-357-70003-7

(Might be able to get this from <u>https://studyingcore.com/product/cengage-unlimited-1-term-4-months-1st-edition-</u> <u>m/</u>) Comes with an electronic version of the book and then if you want a physical copy of the book, you can rent the textbook for \$10 from the company and it will ship to you within 7 days.

Optional-- Understanding Basic Statistics, 8th Ed. Brase and Brase. ISBN 978-1-337-55807-5

SUPPLIES

- Pencil and Paper
- Calculator (preferably scientific)
- Enhanced Webassign Access Code (available with purchase of book)

COURSE COMPETENCIES

1. Create graphical and numerical descriptions of quantitative and qualitative data.

- 2. Calculate probabilities and percentiles related to a general normal distribution.
- 3. Distinguish differences in data analysis and interpretation between observational data and data from designed experiments.
- 4. Calculate and interpret a confidence interval for a single parameter, using both large and small samples.
- 5. Perform and interpret a test of hypotheses for a single parameter, using both large and small samples.
- 6. Perform and interpret statistical inference on the difference of two parameters.
- 7. Fit and interpret a simple linear regression model, including correlation and scatterplots.

GRADING INFORMATION

NCK Tech Grading Scale

- A-90-100%
- B 80-90%
- C 70-80 %
- D 60-70%
- F 59%

Instructor Grading-

Grading will be awarded on a weighted point basis.

Each category will be part of your grade:

Chapter Online assignments

Discussion/ Reply Board Posts

3 Unit Exams

1 Cumulative Final

Category	Percentage
Discussion/ Reply Boards	25%
Tests (10% each)	30%
Final Exam	25%
Weekly Assignments/ Notes	20%
Total	100%

Extra Credit will also be offered at about midway through the semester.

ACADEMIC HONESTY

Membership in the Fort Hays Tech | North Central learning community imposes upon the student a variety of commitments, obligations, and responsibilities. It is the policy of this College to impose sanctions on students who misrepresent their academic work. Appropriate classroom instructors or other designated persons will select these sanctions consistent with the seriousness of the violation and related considerations.

Examples of academic dishonesty include but are not limited to:

- Plagiarism: i.e. taking someone else's intellectual work and presenting it as one's own. Each department set standards of attribution. Faculty will include disciplinary or class-specific definitions in course syllabi.
- Cheating is unacceptable in any form. Examples include consultation of books, library materials, notes or intentional observation of another student's test on paper or a computer screen; accessing another student's answers from an exam to be given or in progress; submission of falsified data; alteration of exams or other academic exercises; and collaboration on projects where collaboration is forbidden.
- Falsification, forgery or alteration of any documents pertaining to assignments and examinations.
- The use of AI generated content from AI tools such as, but not limited to, ChatGPT, Dall-E, Co-Pilot, etc., is up to faculty discretion per course as stipulated within the course syllabus. Submitting AI generated work as your own, without attribution, will be considered academic dishonesty.
- In courses where the use of AI tools are not permitted as stipulated within the course syllabus, work submitted using AI will be considered academic dishonesty.
- Students who participate in, or assist with, cheating or plagiarism will also be in violation of this policy.

Classroom instructors and/or administrators will assess sanctions for violations of this policy. The seriousness of the violation will dictate the severity of the sanction imposed. Academic sanctions may include but are not limited to any of the following:

- 1. verbal or written warning
- 2. lowering of grade for an assignment
- 3. lowering of term grade

Administrative sanctions may include but are not limited to either of the following

- 1. Suspension from the course, program, or College
- 2. Dismissal from the course, program, or College

FORT HAYS TECH | NORTH CENTRAL MISSION STATEMENT

Fort Hays Tech | North Central delivers applied, innovative and personalized education to empower learners, enrich lives, develop skilled professionals and strengthen economic systems.

Vision Statement

Fort Hays Tech | North Central is dedicated to being a leader in workforce development by maximizing value for students, employers and communities through educational excellence.

Core Values

Achieving EXCELLENCE with INTEGRITY through

- DEDICATION
- INNOVATION
- COLLABORATION
- COMMUNICATION

FORT HAYS TECH | NORTH CENTRAL NON-DISCRIMINATION POLICY

Fort Hays Tech | North Central is committed to nondiscrimination on the basis of race, color, gender, ethnic or national origin, sex, sexual orientation, gender identity, marital status, religion, age, ancestry, disability, military status, or veteran status in admission or access to, or treatment or employment in, its programs and activities. Further, it is the policy of the college to prohibit harassment (including sexual harassment and sexual violence) of students and employees. Any person having inquiries concerning the college's compliance with the regulations implementing Title VI, Title IX, Section 504, and the Americans with Disabilities Act Amendments Act is directed to the

VP of Student and Instructional Services (Section 504/ADA Compliance Officer and Title VI, Title VII, & Title IX Compliance Officer) at (785)738-9055, <u>cisbell@fhtechnc.edu</u> or PO Box 507, 3033 US Hwy 24, Beloit, KS 67420.

OVERVIEW FOR STUDENTS WITH DISABILITIES

Fort Hays Tech | North Central is dedicated to providing equal access and opportunity to all campus programs and services for students with disabilities. We are committed to providing reasonable accommodations in accordance with applicable state and federal laws including, but not limited to, Section 504 and 508 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. We strive to create a safe, respectful and inclusive environment and promote awareness, knowledge and self-advocacy.

Fort Hays Tech | North Central acknowledges that traditional methods, programs and services are not always appropriate or sufficient to accommodate the limitations experienced by some qualified persons with disabilities. When a student's disability prevents him/her from fulfilling a course requirement through conventional procedures, consideration will be given to alternatives, **keeping in mind that academic standards must be maintained**.

Services are provided through Student Accessibility Services (SAS) staff located in the Student Success Center, on the Beloit Campus, and in Student Services, on the Hays Campus.

• Director of Learning Services, may be reached at 1-785-738-9020; or by mail at Fort Hays Tech | North Central, 3033 US Hwy 24, Beloit, KS 67420.

Student Responsibilities

Students requesting support services will need to register ("self-disclose" and complete Student Accessibility Services Intake and Consent Form), provide appropriate documentation (if available) including how the disability affects academic performance and suggested accommodations, and communicate with the Director of Learning Services as part of the interactive process to create an *Educational Accommodation Plan* that will notify Instructors of approved accommodations, services and/or auxiliary aids.

Students are encouraged to make timely and appropriate disclosures and requests, at least two weeks in advance of a course, program, or activity for which an accommodation is requested (or as soon as realistically possible) to allow adequate time for accommodation services to be set in place.

Accommodations, Academic Support Services, or Auxiliary Aids

Reasonable accommodations including academic support services and auxiliary aids are provided to allow students with disabilities an equal opportunity to participate in and benefit from our educational programs. Accommodations will be provided on a case-by-case basis determined by student request, documentation, intake interview, Educational Accommodation Plan team, and assessment of individual needs and course requirements.

Reasonable testing accommodations may include, but are not limited to:

- Extended testing time
- Reduced distraction testing environment
- Test reader and/or scribe
- Use of calculator

Academic support services/auxiliary aids may include, but are not limited to:

- Note-taking assistance (second set of notes, power point slides, or other visual aids provided)
- Sign Language Interpreter
- Preferential seating in the classroom
- Large print exams, handouts, signs, etc.
- Telecommunications devices
- Use of Assistive Technology

Accommodations may not fundamentally alter the nature of the program or activity, lower academic standards, present undue financial or administrative burden on the college, or post a threat to others or public safety.

Additionally, some accommodations and services cannot be provided, such as personal devices or assistance with personal services.

Auxiliary aids may be available through a variety of sources available to individual students. The student may make a request in obtaining specialized support services from other resources such as Vocational Rehabilitation Services (VR), Recordings for the Blind, Kansas Talking Book Service, etc. For example, Vocational Rehabilitation may fund such items as transportation to the institution, tuition, textbooks, hearing aids, and other individually prescribed medical devices.

If at any time throughout the academic year, a student feels that the agreed upon accommodations are not being followed or that alternate accommodations need to be provided, the student should notify Student Accessibility Services (SAS) staff. Fort Hays Tech | North Central is committed to student success; however, we do not require students to use accommodations. The decision of when to utilize approved accommodations or services is up to the student. Integration, self-advocacy and individual responsibility are promoted and expected.

Grievance Procedure

Any student who believes he or she has been subjected to discrimination on the basis of disability or has been denied access or accommodations, shall have the right to invoke the Grievance Procedure.

Students are encouraged to first discuss their concerns with SAS. An attempt will be made to resolve the issue(s) causing concern by assisting the student in discussions with the person(s) involved. Most situations are positively resolved through this process. If the student does not feel the concern or complaint has been appropriately resolved, he or she should contact the Vice President of Student and Instructional Services at 1-800-658-4655 or PO Box 507, 3033 US Hwy 24, Beloit, KS 67420, where grievance procedures are filed for all students, including students with disabilities.

If the complaint is not resolved at the College level, a student may choose to file a complaint with the Office for Civil Rights at 1-816-268-0550 or U.S. Department of Education, One Petticoat Lane, 1010 Walnut Street, Suite 320, Kansas City, MO 64106.

Confidentiality

All information regarding a student's disability is confidential. All documentation will remain separate from academic records and will not be released to an individual or source external to Fort Hays Tech | North Central without the student's written consent. In order to provide effective services, it may be necessary to communicate limited information on a need-to-know basis regarding disability-related needs to Fort Hays Tech | North Central faculty and/or staff.

REASONABLE SUSPICION

If reasonable suspicion of substance abuse exists regarding an employee or student based on objective criteria (including, but not limited to, behavior, appearance, demeanor, detection of the odor of alcohol or any controlled substance), the employee or student will be requested to consent to drug testing performed by Fort Hays Tech | North Central's contract vendor at the expense of the college.

A. A college administrator (or their designee) shall drive the employee or student to the vendor's site for drug testing and shall return the employee or student to his/her residence (or arrange for transportation) following the testing.

B. Test results shall be sent directly to the college administrator, with a copy also sent to the employee or student. All test results will be considered confidential, access to the results will be limited to institutional personnel who have a legitimate need-to-know.

C. In the event of a positive test result, the employee or student may request a retest of the sample at the employee or student's expense. The request must be submitted within 24 hours.

D. Positive results for any illegal drugs, or prescription drugs (either not prescribed for the employee or student, or at levels above the prescribed dosage), or blood alcohol level of 0.04 or greater shall be grounds for disciplinary action, up to and including termination or expulsion.

E. Refusal to provide a specimen for this testing shall be treated as a positive drug test result.

F. Test results or specimens that have been determined to be altered by the employee or student shall be grounds for disciplinary action, up to and including termination or expulsion.

G. If the employee or student tests positive for an authorized prescription drug which may impair his/her performance or judgment, the employee or student may not be permitted to participate in college activities until he/she provides a doctor's release.

RIGHT TO MODIFY THE SYLLABUS

The instructor reserves the right to modify the syllabus during the semester. Students will be given advanced notice if a change would occur.

MUTUAL RESPECT

The mathematics classes are designed for collaboration rather than competition. That means that each member of the class supports the others in their efforts to succeed. Be sure to come to each class prepared to:

- 1. Listen with respect.
- 2. Speak with respect.
- 3. Contribute actively to the work of your team.

GUIDELINES FOR SUCCESS

Attendance Policy:

- Attendance in class if very important. Please sign in and complete your assignment every week. Completion of homework is how you will pass this course.
- This class has three components that are graded. First, you are required to complete an online assignment through Cengage's WebAssign. Secondly, you will have a discussion board that you are required to complete and lastly, you must reply to at least one classmate's discussion board. Optional: I have uploaded introductory videos and notes that you can feel free to watch and take that can/will help in your understanding of the material that you are learning. These notes are not required and will not be graded but could help you in being successful in this class.

Assignment Policy:

- You are permitted and encouraged to use a calculator for this class. It should be a scientific calculator so you are able to use the formulas to help you (if you look that information up).
- Late assignments are generally NOT accepted after the due date. If something comes up and you feel that it may warrant me giving you extra time, please ask. I may say yes, especially if it is BEFORE the weekend that the assignment is due. Do not wait until the weekend that the assignment is due and then say that you were not able to get online that weekend. This is an accelerated class in that you only have 8 weeks to finish a class that is regularly 16 weeks so it will go faster than what would be normal so you will not always have a full week to complete the assignments but it is essential that you keep up with your assignments and the due dates in order to be successful. You will possibly see the exact same problems on your exams so knowing how to complete the problems CORRECTLY would be the purpose of the homework. Also, I am a lot easier to get ahold of and answer your questions during the week than on the weekends.
- Due dates will be as follows: Online assignments are due on Sundays, at 11:55 P.M. each week. Your discussion board is due on Thursday night at 11:55 P.M. and your reply to a classmate is due on Sunday at 11:55 P.M.
- About the discussion board- these are meant to be more difficult than the online assignments. This essay helps
 me get an understanding on what you have learned about the concepts of the chapter and allows me to clear up
 any misunderstandings. The discussion boards and replies are worth more than the online assignments but the
 online assignments help you prepare for the exam. Neither is more important but together they allow you to
 learn the amount of information that is imperative for you. Please make sure that you are completing <u>all three</u>
 of these assignments to get the best grade and for your full understanding. Also, the discussion boards will have
 MANY questions in them. Make sure that you answer EVERY part of the question and make sure that you pay

attention the **rubric** that is provided for the discussion board and reply. This will help direct you in what you need to concentrate on to get the maximum number of points.

- With the discussion board, I would like to direct you to look at my AI Policy and follow that. I will run your papers through an AI checker. Please follow the policy if using AI and use it in the proper way. This will possibly save you from suffering a bad grade. If you neglect doing this, it will cost you a grade on the assignment and possibly cause you to be subject to be administratively withdrawn from the class with a failing grade. It is essential to follow this to eliminate the possibility of plagiarism.
- You will have 5 opportunities to get the right answer (on the online problems). This will help you to get a full understanding of the material and concept. If you miss the problem 3 times, please reach out to me and ask what you are doing wrong. In doing that, please send me a picture of your work so I can tell you where you are going wrong and start the problem for you correctly by sending you a picture of my work of the problem. There is also a place on your problems that says "ask the teacher" and if you use that at least describe the process you have gone through to get the right answers so I can assist you in where you went wrong. If you use this feature, please email me that you did as it does not always tell me and I would like to get your question answered in a timely manner. If you would rather send me a picture of your work, put that you have sent that in your "ask the teacher" request and send me the picture of the work to my email address, <u>ameis@fhtechnc.edu</u>. Just in case, I do always get back to students within 48 business hours (weekends may take a little longer) so if you do not get a message within 48 hours from me, I did not get your message and you need to email me back. Blackboard is a good place to send instant messages to each other if you want to use that. I will use that platform a lot.
- To turn in assignments- these are the criteria in order to get them turned in correctly. First, the online will come to me directly as long as you have submitted each question to review if you have gotten them right. The online assignment will no longer be available after the due date and time so make sure that you have the assignment completed by then. I highly recommend you taking a screenshot of your total at the top of the page so if something happens and it does not transfer correctly, you have the ability to show me what you made. If the internet goes down when you are working on your assignment, you will not know it. You will continue with the assignment and then the grade will not be transferred in to me and will show a zero as the grade. This is why I highly suggest taking that screenshot. Please make sure that the assignment title is in the screenshot with the grade so I can give you credit score for the right assignment. Secondly, you will open the discussion board area of your Blackboard and put your discussion paper there. If it asks you for pictures or graphs, you must upload them as well. Then you submit it. You will click on your classmate's paper and reply to make the reply to the post. If you do not see a classmate's discussion board, please email me after 7 pm on Sunday evening to let me know that and I will give you the credit for the reply paper. If you do not email me, I will not give you the credit for it as I can only assume you did not go into the discussion area to make sure that there was a discussion board to reply to.
- After submitting your discussion and reply posts, I will go through them and send a reply to you. As long as you have done decently and it would be helpful for other students to see my reply to your posts, I will make it publicly. If it is necessary to only message you privately, I will. This would happen if you are just WAY off, or you need more direction to get things going in the right direction. If there are personal comments or comments that are more of a private nature, I will do that privately. One reason that may happen (that has occurred in the past) would be for a student copying a discussion board and my needing to inform them that I have those suspicions or if they are not following the rubric and need to take a look at that more closely to increase their post scores (most times this happens is on the replies and they do not meet the criteria because they are too short or do not add to the discussion).

It is essential that you take the final exam for this class to pass. If you do not take the final exam, you will not
pass the class. The final exam shows how much you know or do not know about the material and gives me an
idea of what was learned by each student and if you do not take this exam then I cannot know that you learned
the necessary information for the course.

Videos:

For my face-to-face classes, I use what is known as a "flipped classroom" approach to teaching. This means that I video the basics of the lesson and send it to my students. I have those videos for you to access so they can help you as well. I have also left the notes for you to download and take notes on the video. These videos are not for your entertainment value and are only to be used for the purpose of providing information to you about the concepts of the chapter. Then the students will come to class and work on the problems in class while I am present so I can assist them if they need it. Another good reason I video the lesson, some of you may only need to hear it one time, and you can get the process down. There are some of you, though, that require more exposures to the content than that and this provides you the opportunity to rewatch the videos at your convenience.

I will also be working on getting some videos of me teaching the lessons in class in real time, if possible. If that happens, I will let you know that I have the videos uploaded when I have taught the lesson live.

AI Policy:

The use of generative AI tools (such as Chat GPT, Dali-e, etc.) is permitted in this course for the following activities:

- Brainstorming
- Fine tuning your research question
- Drafting and outlining

The use of generative AI tools is not permitted in this course for the following activities:

- Impersonating you in classroom contexts such as using the tools to compose discussion board prompts and answers.
- Completing group or individual work assignments
- Writing a draft of a writing assignment.

Your use of AI tools must be properly documented and cited in order to stay away from university policies on academic dishonesty. You should always look up and research any information that an AI tool gives in order to make sure that the information is accurate. This includes times when you use it to fine tune your writing and make it better. I will run your assignments through AI checkers and if it shows that you have used an AI tool, you will not be given credit for it.

If you are suspected of academic dishonesty, you will not be given credit for your assignment and will be given a written warning concerning the suspicions of you using someone else's ideas/ answers for your answers. If this happens a second time, you will receive a zero for the course and could be recommended to be administratively withdrawn from the course and possibly expelled from the college, as the academic honesty policy states. If you choose to work together, I am okay with that but working together does not mean that you take each other's papers and copy the answers. Working together would be two (or more) people sitting together and doing their work while discussing how to get the right answers and agreeing on those problems while learning from each other.

Proctor:

Normally it is necessary to find a proctor for your testing but in the summer, I find that it is more difficult to do that. So, in the summer, you will take the unit exams on your own with you acknowledging that you will complete the exams on your own with no assistance from any other person(s) to do so. Then on your final, you will schedule a time with me to take the exam via teams' video and while I am watching you take the exam. Your unit exams and your final should be consistent and similar grades. This will ensure that you did, in fact, take the unit exams on your own. If they are completely different in scores, we may have an issue that we would have to discuss further.

Office Hours:

I will hold office hours for the class on a day that will be announced soon. This is a time when you can come to talk with me on Microsoft Teams and get questions answered and help from me. I am also available for you to tutor you, answer questions, go over material, or anything that you need by emailing me and asking. I do make myself as available as possible for my students and wish for you to succeed so I encourage you to reach out and ask for assistance. If you do not do this and you need help, I will not know that you need help. DISCLAIMER: Because this is an online class, it is mainly a self-study type of class. You will be responsible for most of the learning on your own. Your book is a great resource as it has many problems being shown in their entirety. Being able to learn things on your own makes you a good student and will help you become a lifelong learner. It is NOT a bad thing for you to learn things on your own. I hope that you are aware of that going in to this. I will not be available to do every problem that you may have on your assignment. That is not something that happens in an online class so please be aware of that. I can assist you with various problems or issues that you are having but will likely not do all of your problems for you. I hope that you are aware of that going into this. I am not available to do every type of problem that you may have on your assignment but I do assist you in however I can as you go through the semester.

There are other places, besides your book, that I recommend that you look at if you have issues and need help (in the event that you have tried contacting me but I have not gotten back to you). A great resource is Professor Leonard on YouTube. This guy is great and has many videos that are uploaded to help statistics students out. There may also be apps out there that will show you step-by-step how to complete problems. I only suggest you use these in order to find out how to do the problems so that you are able to complete them correctly on the exam. You will NOT be able to use an app on the exam, so do not become reliant on one for your assignments.

Another resource is our Brainfuse Tutoring on your Blackboard Platform. It will be located at the bottom of the general area (top part before the dates start) of your page. This is 24 hours a day/ 7 days a week online tutoring service that Fort Hays Tech | North Central uses. Your scientific calculator may be able to help you as well. With these, you can use the formulas and put the numbers in where appropriate and then have the answer. If you figure this out, it is a life and time saver. You can look up instructions on this by using YouTube and putting in your calculator's name and then searching what you are looking to learn how to do. There should be videos there to instruct you how to do these types of problems.

Class Importance:

1. Use scientific calculator when possible.

- 2. If you have any questions, please ask.
- 3. It is always okay to make mistakes in class! I will, you will, the other classmates will too. Please welcome this and learn from them.
- 4. Know that I am here to help you. I want you to be successful. I spend a lot of my free time helping students individually and would not hesitate to help you. I can at least point you in the right direction if you have questions. I will work with you if you work with me, but I cannot be the only one that wants you to succeed and I cannot help you if you do not ask. I would also caution you to have a good attitude about coming to me with questions. Sometimes it becomes difficult to help students if they have a bad attitude or approach an instructor in any kind of negative way.
- 5. It would be helpful if you show every step of your problems on paper so you have them on your test or when you need assistance. If you do not show your work on the problems on the paper that does not help you much on the test. It is also difficult to help you with questions if you do not show your work. If you need assistance, I am going to ask to show me what work you have completed before trying to help you (so I know what you are doing wrong) to get the correct answer.
- 6. Show up to class (online), participate, do your homework, and study twice as many hours out of class as you attend class per week. If you put in the effort, you will get the result you want.

"Education is the most powerful weapon which you can use to change the world." - Nelson Mandela

Week 1	Chapter 1-4	Chapter 1 – 4 reading and Online problems	Create graphical and numerical descriptions of quantitative and qualitative distribution
		Introduce Yourself	Distribution differences in data analysis and interpretation
		Discussion / Reply 1	between observational data and data from designed
		Optional: Watch Video/ Notes/	experiments.
		Application Problems/ Slides	Fit and interpret a simple linear regression model, including correlation and scatterplots.
Week 2	Chapter 5	Test 1 (Chapters 1 – 4)	Create graphical and numerical descriptions of
		Chapter 5 reading and Online	quantitative and qualitative distribution
		problems	Distribution differences in data analysis and interpretation
		Discussion/ Reply 2	between observational data and data from designed
		Optional: Watch Video/ Notes/	experiments.
		Application Problems/ Slides	Calculate probabilities and percentiles related to a general normal distribution.
Week 3	Chapter 6 Chapter 7.1	Chapter 6 Reading and Online problems	Create graphical and numerical descriptions of quantitative and qualitative distribution
		Chapter 7 reading and Online	Distribution differences in data analysis and interpretation
		Part 1 (Chapter 7 will take 2	between observational data and data from designed
		weeks)	experiments.
		Discussion/ Reply 3	Calculate probabilities and percentiles related to a general
		Optional: Watch Video/Notes/	normal distribution.
		Application Problems/ Slides	

Summer 2025 Online Schedule

Week 4	Chapter 7.2	Chapter 7 Part 2 reading and	Create graphical and numerical descriptions of
	Chapter 8	Online Problems	quantitative and qualitative distribution
		Chapter 8 Reading and Online	Distribution differences in data analysis and interpretation
		problems	between observational data and data from designed
		Discussion/ Reply 4	experiments.
		Optional: Watch Video/Notes/	Calculate probabilities and percentiles related to a general
		Application Problems/ Slides	normal distribution.
			Calculate and interpret a confidence interval for a single
			parameter, using both large and small samples.
Week 5	Chapter 9	Test 2 (Chapter 5 – 8)	Create graphical and numerical descriptions of
		Chapter 9 Reading and Online	quantitative and qualitative distribution
		Problems	Distribution differences in data analysis and interpretation
		Discussion/ Reply 5	between observational data and data from designed
		Optional: Watch Video/ Notes/	experiments.
		Application Problems/ Slides	Perform and interpret a test of hypotheses for a single
			parameter, using both large and small samples.
Week 6	Chapter 10	Chapter 10 Reading and Online	Create graphical and numerical descriptions of
		Problems	quantitative and qualitative distribution
		Chapter 11 Reading and Online	Distribution differences in data analysis and interpretation
		Problems	between observational data and data from designed
		Discussion/ Reply 6	experiments.
		Optional: Watch Video/Notes/	Perform and interpret a test of hypotheses for a single
		Application Problems/ Slides	parameter, using both large and small samples.
			Perform and interpret statistical inference on the
			difference of two parameters.
			Fit and interpret a simple linear regression model,
	_		including correlation and scatterplots.
Week 7		Test 3 (Chapters 9-11)	
Week 8		Final Exam (Chapters 1-7)	