

# STA 6113. Applied Bayesian Statistics

## Course Syllabus – Fall 2021

This course is fully online in a **synchronous** format.

Fall 2021 Attendance: This course meets synchronously, meaning that all live sessions are required as part of your final grade. These live meetings will occur every **Monday and Wednesday from 7:30 pm to 8:45pm CT**. Attendance is required for these sessions. If you are unable to attend, contact the instructor via email [min.wang3@utsa.edu](mailto:min.wang3@utsa.edu) to discuss your options.

### Public Health Considerations – Fall 2021

The health and safety of our campus community is a shared responsibility of all Roadrunners. It is important to note that none of us can guarantee a COVID-19 free environment. We all must, however, follow the guidelines outlined in the [UTSA Public Health Task Force Report](#) (“Report”) and any other applicable policies as may be communicated by the University from time to time. This will include regulating behaviors outlined in the Report including:

- Encouraging the use of [face coverings](#),
- Self-monitoring for symptoms using the [Daily Health Check](#) before coming to campus,
- [Getting tested](#) for COVID-19 if showing symptoms or after a [close contact](#) with a COVID-19 positive individual (if you are not already fully vaccinated and are not symptomatic),
- Following proper hygiene practices, including frequent hand sanitization, using cleansing wipes to disinfect surfaces, and minimizing the use of shared devices, tools and equipment,
- Avoid congregating (i.e. bottlenecking) near the entrances and exits before and after class – keeping your distance to reduce possible transmission from symptomatic or asymptomatic individuals.
- Communicating any COVID-19 related health concern to your supervisor or professor, and
- [Submitting a self-report](#) to report your positive test results or exposure (if not fully vaccinated and are also symptomatic for COVID-19 infection).

In turn, faculty members or supervisors will submit a COVID Case Referral to alert the COVID Response Team about positive COVID-19 cases for operational action. Failure to abide by these guidelines and requirements may result in disciplinary action in accordance with the [Student Code of Conduct](#) or applicable employment policies and procedures. Violations should be reported to the Office of Institutional Compliance via the [UTSA Hotline](#) for appropriate action.

### For Face-to-Face Classroom and Other Academic Sessions

Face coverings/masks are recommended in indoor public and common spaces, especially for those individuals who are high risk and/or not vaccinated. For the latest information, please review [the Roadrunner Roadmap](#).

## Contact Information

**INSTRUCTOR NAME:** Min Wang, Department of Management Science and Statistics

**OFFICE LOCATION:** BB.4.03.20 and virtual via the zoom <https://utsa.zoom.us/j/92790560219>.

**OFFICE HOURS:** Monday and Wednesday 9:00 AM -10:30 AM CT or by appointment

**PHONE NUMBERS:** (210) 458-5381

**EMAIL ADDRESSES:** [min.wang3@utsa.edu](mailto:min.wang3@utsa.edu) (preferred)

**VIRTUAL CLASS LINK:** <https://utsa.zoom.us/j/91405276764>

**Note:** Refer to the [Student Resources section](#) of this syllabus for technical support, Student Disability Services accommodations, academic support and other resources. Contact the instructor ASAP if you are in need of additional resources to be successful in this course.

**SOCIAL MEDIA/ALTERNATIVE COMMUNICATION PLATFORM:** I only use Zoom and Panopto on Blackboard, and no other platforms will be adopted for this course.

## Communication Plan

There are several ways you can communicate with during this online course:

1. Email me directly at [min.wang3@utsa.edu](mailto:min.wang3@utsa.edu) from your own email account. Keep in mind, however, that I cannot communicate about grades through email.
2. Use the “Send Email” tool. This has the same result as sending a direct email, but it comes from Blackboard instead of your personal email account.
3. Post a question in the “Course Q&A” forum. This is a public forum provided for content- and course-related questions when the answer can benefit the entire class. Everyone in the class can see the questions and answers posted here.
4. Use the “Course Messages” tool to send a private message about grades. This communication stays in Blackboard and is the only secure way to discuss your grade. You will have to log in to Blackboard to send and receive these course messages.
5. The instructor will generally respond to all messages within 24 hours. Office hours will be offered virtually via the zoom <https://utsa.zoom.us/j/92790560219>.

## Course Description

This course mainly discusses probability and uncertainty, conditional probability and Bayes’ Rule, single parameter and multiple parameter Bayesian analysis, posterior analysis for commonly used distributions, prior distribution elicitation, Bayesian methods in linear models, Bayesian computation including Markov chain Monte Carlo (MCMC) simulation, and applications. Credit hours: [3]

Prerequisites/co-requisites: [STA 5103](#) and [STA 5513](#), or consent of instructor.

## Course Objectives

By the end of the term, successful students should be able to do the following:

- Choose and formulate statistical models to address real world problems.
- Explain the differences in the frequentist and Bayesian data analysis.
- Apply Bayesian statistical models to analyze data from different fields of study.
- Identify and select appropriate priors to implement Bayesian modeling techniques.
- Contrast the frequentist approach with a Bayesian approach for data analysis.
- Write, run, and diagnose posterior sampling algorithms.
- Implement standard approximation and sampling techniques to conduct a Bayesian analysis.

## Course Format

This course will be taught entirely online through the zoom <https://utsa.zoom.us/j/91405276764>. Live sessions will take place on Monday and Wednesday 7:30-8:45pm. There will be no required class meetings on campus.

## COURSE NAVIGATION INSTRUCTIONS

Click on the underlined text throughout this syllabus to access additional web linked sources. When you log in to Blackboard you will arrive at the “**Announcements**” page. Use the course menu to go to other locations in the course. Blackboard course links will open in the current window or tab. Files and other external web links will open in a new window or tab. You can access support services from the Blackboard course menu as well.

## Course Materials

### REQUIRED TEXTBOOK

- Hoff, P. **A First Course in Bayesian Statistical Methods**. Copyright 2010, Springer  
Print ISBN 978-0-387-92299-7. Online ISBN 978-0-387-92407-6  
Link: <https://link.springer.com/book/10.1007/978-0-387-92407-6>

## Technology Requirements and Support

- **Computing:** We will be using [R software](#) to solve most of problems in this course.
- Basic computer skills.
- Computer with a web camera and speakers/earbuds/headphones. You can use your own personal device (laptop or desktop). If you need to borrow a device, contact the Tech Café (see contact information below) to inquire about checking out a laptop for the semester.
- For more information on accessing desktop computers on campus in the labs and the library, visit the UTSA [Student Connect Computer Lab](#) information page.
- Internet access. Wired or reliable connection recommended for online exams and assignments.
- Google Chrome is the recommended browser. Issues may happen if using Internet Explorer or Safari.

- Access to the Microsoft Office suite and Adobe Creative Cloud suite. These tools are provided free of charge to UTSA students and you can learn more about this software, including instructions on how to access these programs by visiting the [Digital Tool Resources page](#).
- Review the [Blackboard Self Help Portal](#).
- Review the [Minimum Technical Requirements for Online Learning](#) page

If you have a problem with Blackboard and you have already **cleared the cache** and tried with a **different browser**, please submit a ticket to University Technology Solutions (UTS) Tech Café. Be ready with your course ID and section. A screenshot of the issue will accelerate the troubleshooting process. Always notify the instructor about the issue you are encountering.

### University Technology Solutions (UTS) Contact Information

- Email UTS Tech Café at [techcafe@utsa.edu](mailto:techcafe@utsa.edu)
- Call UTS Tech Café at 210.458.5555
- Visit the UTS [Tech Café](#) page

## Grading Information

Final grades will be based on earning the following points out of a possible 1,000.

### GRADING SCHEMA

Activity	Quantity	Points Each	Total Points	Percentage
Quiz	4	25	100	10%
Homework	6	50	300	30%
Exam	4	100	400	40%
Project	1	200	200	20%
<b>Total Values</b>	<b>14</b>	<b>Point Total</b>	<b>1000</b>	<b>100%</b>

### GRADING SCALE

Final grades may be curved based on the scores and ranks, but I will generally follow the grading scale:

Total Points	Percentage	Grade
965-1000	96.5 – 100%	A+
925-965	92.5 – 96.49%	A
895-925	89.5 – 92.49%	A-
865-895	86.5 – 89.49%	B+
825-865	82.5 – 86.49%	B
795-825	79.5 – 82.49%	B-
765-795	76.5 – 79.49%	C+
725-765	72.5 – 76.49%	C
695-725	69.5 – 72.49%	C-
665-695	66.5 – 69.49%	D+
625-665	62.5 – 66.49%	D
595-625	59.5 – 62.49%	D-
<595	<59.5%	F

## Assignments & Assessments

### QUIZZES

There are 4 quizzes in this course. Quiz problems are based on the reading material that I assign. Make sure you complete each one.

### HOMEWORK

Continuous formative assessment of the progress of the course will occur via ongoing communication between the instructor and the students. Homework (HW) problems will be assigned on a regular basis.

### EXAMS

The exams will be closed-book and closed-notes. Students are allowed to use a one-page formula sheet. You must show all your work in the exam to receive credit. Each student must write his/her own exam solution.

### PROJECT

There is a complete report about Bayesian data analysis. A sample project will be available on the blackboard.

## **Course Expectations & Policies**

### **ANNOUNCEMENTS**

All information you need for this course will be posted in Blackboard, or as an assignment, item, or announcement. It is your responsibility to check in and participate every week in the course and complete all listed activities and assignments. It is recommended that you check announcements on a daily basis.

### **SUBMISSION OF COURSEWORK**

All assignments are due at 11:59 pm on the designated day unless otherwise noted. All assignments will be submitted online through the UTSA Blackboard course site on or before the specified due date and submitted to the location designated in the assignment description. Make sure you save your assignment somewhere that you can easily retrieve it later (e.g. on a travel drive, your personal computer, email, etc.). If something goes wrong with your submission, you will want to be able to retrieve your assignment for resubmission. Always notify the instructor about any issues you encounter.

### **QUALITY OF WORK**

All work must be of professional quality, neatly presented, grammatically correct, and free of spelling and punctuation errors.

### **GRADING AND FEEDBACK**

To view your grades on Blackboard, click on the “Grades” tab on the sidebar menu of our course in Blackboard. If additional feedback has been included with your grade, a speech-bubble icon will appear next to your grade. Clicking on this icon will open an additional window on your screen providing you with feedback.

### **VIDEO AND AUDIO RECORDING**

The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless Student Disability Services has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Student Disability Service accommodation. If the instructor or a UTSA office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. For more information on your privacy and class recordings, review [Student Privacy \(FERPA\) in Virtual Classrooms and Other Educational Recordings](#) and the [Guide to Secure Video Conferencing Tools](#).

### **COURSE EVALUATION**

I use the feedback provided by my students in course evaluations to improve my teaching. Additionally, course evaluations are a strategy used by the university as one factor in evaluating an instructor’s effectiveness. I encourage you to complete the course evaluation during the availability period later in the semester so that they can make improvements for the next group of students.

## **LATE WORK**

Late work is allowed under some circumstances and with prior approval from the instructor. Points will be deducted at a rate of 10 percentage points per day, including weekends and holidays. Work is accepted up to 7 days after the due date. At that time, the grade will be zero.

## **INCOMPLETES**

Course incompletes will be given only in extreme cases. If you feel you have extenuating circumstances that warrant an incomplete for the course, contact the instructor as soon as possible.

## **INTERPERSONAL INTERACTIONS AND ONLINE NETIQUETTE**

We will discuss ideas and topics in class that you may not agree with. It is also possible you will present ideas and topics in class that others will not agree with. It is vital that we respect the opinions of others and behave in a civilized manner during classroom discussions, whether online or in person. To that end, be prepared to back up any opinion you may have with facts rather than emotions. This is a university where we encourage everyone to openly share their ideas and opinions without penalty or judgment, but learning should always be based on facts and research. It is possible to disagree without being disagreeable.

Netiquette represents proper manners and behaviors online. Netiquette refers to the social expectations and behavior norms for online interactions and communications. In the online learning environment, you should follow common social standards. For additional information, read the [Digital Learning Netiquette](#) page.

## **COPYRIGHT AND FAIR USE**

It is important to understand the issue of intellectual property rights. You may not use the images or thoughts of others for profit or gain without their written permission. The UTSA library has a [Copyright Laws and Public Performance Rights](#) (PPR) page.

## **UTSA Student Resources**

### **TECH SUPPORT**

- For technical assistance with Blackboard Learn, visit the [Blackboard Self Help Portal](#). Blackboard provides support 24 hours a day, 7 days a week for UTSA faculty and students by phone, email, chat and live virtual consultations.
- Review the [Minimum Technical Requirements for Online Learning](#) for required technical specifications for learning online.
- Additional technical support can be accessed by visiting the UTS [Tech Café](#) page.
- Chrome is the recommended browser. Issues may happen if using Internet Explorer or Safari, especially with Blackboard Collaborate. In case you are having trouble opening or accessing content, clear the cache and try a different browser. You can run the [Blackboard Browser Checker](#).
- To learn about all of the digital tools available to you as a UTSA student visit the [Digital Tools Resources page](#).

## ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

The University of Texas at San Antonio in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act provides “reasonable accommodations” to students with disabilities. Only those students who have officially registered with Student Disability Services and requested accommodations for this course will be eligible for disability accommodations. Instructors at UTSA must be provided an official notification of accommodation through Student Disability Services. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found on the [Student Disability Services](#) webpage or by calling their office at (210) 458-4157. Accommodations are not retroactive.

## ADDITIONAL ASSISTANCE

If you have issues that we are unable to resolve together, you can contact your current [department chair](#), an [associate dean in your college](#), or [UTSA’s Equal Opportunity Services & Title IX Office](#).

## ACADEMIC SUPPORT

### *Supplemental Instruction*

Supplemental Instruction (SI) offers student-led study groups using collaborative learning for historically difficult classes. Supported courses and schedules can be found on the [Tomás Rivera Center](#) website. You can call the SI office if you have questions or for more information at (210) 458-7251.

### *Tutoring Services*

Tomás Rivera Center (TRC) may assist in building study skills and tutoring in course content. The TRC has several locations at the Main Campus and is also located at the Downtown Campus. For more information, visit the [Tutoring Services](#) website or call (210) 458-4694 on the Main Campus and (210) 458-2838 on the Downtown Campus.

### *Academic Success Coaching*

The Tomás Rivera Center (TRC) Academic Success Coaching Program offers one-on-one study skills assistance through Academic Coaching. Students meet by appointment with a professional to develop more effective study strategies and techniques that can be used across courses. Group workshops are also offered each semester to help students defeat common academic challenges. Find out more information by visiting the [Academic Success Coaching](#) website or call (210) 458-4694.

### *The Writing Center*

The Judith G. Gardner Center for Writing Excellence helps the entire UTSA Community with various writing projects, questions, and challenges. Our experienced tutors provide assistance to current undergraduates, graduate students, and faculty/staff members with each step of the writing process. Services are located at the Main Campus in the JPL building (2.01.12D) and at the Downtown Campus in the Frio Street Building (FS 4.432). They also offer online tutoring seven days a week by appointment so that you can chat live with a tutor. Visit [The Writing Center](#)’s website to learn more and to schedule an appointment.

## STUDENT SERVICES

Make sure you download the UTSA mobile app to stay connected. Visit the [UTSA Mobile App](#) website to access the app download and learn about app features.



### ***UTSA Social Media Channels***

You can follow UTSA departments and organizations on social media. Visit our [Social Media Directory](#) page to find your favorite accounts to follow.

### ***Support for Learning Online***

If you haven't had an online course before, [Learning Online Student Resources](#) is a good website to help answer all of your questions.

### ***Student Affairs Comprehensive Student Resource List***

UTSA has an extensive amount of resources, tools, programs, and offices. The [Student Affairs Student Resources](#) webpage can help you access campus services and general information on most topics.

### ***Counseling Services***

Counseling Services provides confidential, professional services by staff psychologists, social workers, counselors, and psychiatrists to help meet the personal and developmental needs of currently enrolled students. Services include individual brief therapy for personal and educational concerns, couples/relationship counseling, and group therapy on topics such as college adaptation, relationship concerns, sexual orientation, depression, and anxiety. Counseling Services also screens for possible learning disabilities and has limited psychiatric services. Visit the [Counseling Services](#) website or call (210) 458-4140 (Main Campus) or (210) 458-2930 (Downtown Campus).

### ***Student Health Services***

UTSA's Student Health Services offers appointments and resources for students related to health education and services. You can find out more about the services offered by visiting the [Student Health Services](#) website.

### ***Student Wellbeing Resources***

UTSA is committed to the wellbeing of each member of the campus community and recognizes that numerous factors contribute to overall wellness: physical and mental health, diet and nutrition, physical activity, stress management and self-care, social behaviors and more. In addition to the services listed above, UTSA offers the following:

- [Student Assistance Services \(Student Ombudsperson\)](#)
- [Behavioral Intervention Team \(BIT\)](#)
- [UTSA Police Department](#)
- [Campus Recreation Center](#)
- [Center for Civic Engagement](#)
- [UTSA Campus Climate Team](#)
- [Office of Inclusive Excellence](#)
- [Equal Opportunity Services & Title IX Sexual Harassment and Sexual Misconduct](#)
- [PEACE Center - Prevention, Education, Advocacy, Consultation and Empowerment](#)

The instructor highly encourages you to click on and skim these links, so that you are aware of these services should you ever find you need them. If there are any issues, events, or resources you would like to discuss, please reach out to the instructor. They are happy to listen and help you find the right resources for your situation.

## **ADDITIONAL UTSA POLICIES**

Visit this website for a full listing of [Student Policies A-Z Index](#). The link provides information on policies and procedures that apply to all students. It includes residence requirements, policies on grades and the grade point average, credit by examination, adding and dropping courses and withdrawal from UTSA, and scholastic probation and dismissal. The most important policies for you are highlighted below.

### ***Family Educational Rights and Privacy Act (FERPA)***

The Family Educational Rights and Privacy Act (FERPA) is the federal law that protects the privacy of students' education records. This law prohibits Financial Aid, Registrar, Fiscal Services, and many other UTSA departments from releasing any specific student education information without the student's written permission. Parents, guardians, spouses, etc., cannot have access to the student's education records, including account information unless the student has granted authorization through a FERPA/Proxy account in ASAP. Learn more about your student privacy rights by viewing the [Family Educational Rights and Privacy Act](#) page by the Office of the Registrar.

### ***Campus Carry***

Pursuant to HOP 9.48, Carrying of Concealed Handguns on Campus, there are specific guidelines provided by the state of Texas in the presence of weapons on campus. The latest information can be accessed at the UTSA [Campus Carry](#) page.

### ***Student Code of Conduct and Scholastic Dishonesty***

The Student Code of Conduct is Section B of the Appendices in the Student Information Bulletin. Scholastic Dishonesty is listed in the [Student Code of Conduct](#) (Sec. B of the Appendices) under Sec. 203 for more information. For more information on the Student Code of Conduct, contact the [Student Conduct and Community Standards](#) team.

### ***Transitory/Minor Medical Issues***

In situations where a student experiences a transitory/minor medical condition (e.g. broken limb, acute illness, minor surgery) that impacts their ability to access classes or perform tasks within the class over a limited period of time, the student should reach out to the faculty member.

### ***Sexual Harassment and Sexual Misconduct***

UTSA is committed to providing an environment free from all forms of discrimination and sexual harassment, including sexual misconduct, sexual assault, domestic violence, dating violence, and stalking. If a student has experienced or experiences any of these incidents, know that UTSA has resources to help.

UTSA faculty have the responsibility to create a learning environment that is safe and free from hostility. State and federal law as well as [UTSA's Faculty Handbook of Operating Procedures \(HOP 9.24\)](#) require that instructors must report incidents of sexual harassment and sexual misconduct they learn about to the Title IX Coordinator or a Deputy Title IX Coordinator. This means that if a student tells their instructor about a situation (including classroom discussions, written work and/or one-on-one meetings) involving sexual harassment, sexual assault, dating violence, domestic violence, or stalking, the instructor must report it to the [Equal Opportunity Services & Title IX Office](#). Although the faculty member must report the situation, the student will still have options about how their case will be handled, including whether or not they wish to pursue a formal complaint. The university's goal is to make sure students are aware of the range of options available to them and have access to the resources they need.

If a student wishes to speak to someone confidentially, they can contact any of the following on-campus resources, who are not required to report the incident to the EOS/Title IX Office: (1) Counseling Services at 210-458-4140; (2) Student Health Services at 210-458-4142; or (3) PEACE Center at 210-458-4077.

### ***Campus Safety & Emergency Preparedness***

UTSA is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

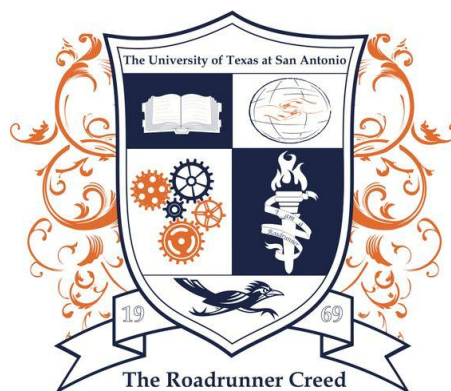
- Alerts: Ensure you are signed up for UTSA Alerts through your ASAP.utsa.edu account.
- Emergency Procedures: Read through the information related to emergency preparedness on the [UTSA Alerts](#) page.
- Safety App: Download the LiveSafe App on your phone through the Apple store or Google Play; visit the [LiveSafe App](#) website for details.
- Important Numbers: UTSA Police - Emergency: (210) 458-4911; Non-Emergency: (210) 458-4242

Each one of us play a critical role in making sure ALL ROADRUNNERS are safe, know what to do, and how to stay informed during a campus crisis. Don't be scared, be prepared! #UTSAprepared

### **Inclusivity Statement**

The University of Texas at San Antonio, a Hispanic Serving Institution situated in a global city that has been a crossroads of peoples and cultures for centuries, values diversity and inclusion in all aspects of university life. As an institution expressly founded to advance the education of Mexican Americans and other underserved communities, our university is committed to ending generations of discrimination and inequity. UTSA, a premier public research university, fosters academic excellence through a community of dialogue, discovery, and innovation that embraces the uniqueness of each voice.

### **The Roadrunner Creed**



*Figure 1. Roadrunner Crest*

The University of Texas at San Antonio is a community of scholars, where integrity, excellence, inclusiveness, respect, collaboration, and innovation are fostered.

As a Roadrunner, I will:

- Uphold the highest standards of academic and personal integrity by practicing and expecting fair and ethical conduct;
- Respect and accept individual differences, recognizing the inherent dignity of each person;
- Contribute to campus life and the larger community through my active engagement; and
- Support the fearless exploration of dreams and ideas in the advancement of ingenuity, creativity, and discovery.

*Guided by these principles now and forever, I am a Roadrunner!*

## Changes

**The syllabus is subject to change at the discretion of the instructor.** Any changes/corrections to the course materials, assignment dates, or other updates will be communicated to the students ahead of time. It is your responsibility to check Blackboard for corrections or updates to the syllabus.

## Online Synchronous Course Schedule

### WEEK 1: August 23 and August 25

#### **Read**

1. Course Syllabus
2. PPT Slides: Chpt. 1
3. Textbook: Chpt. 1 and Chpt. 2

#### **Watch**

1. Introduction Video
2. Install R and R Studio Video

#### **Do**

1. Install [R](#) or [RStudio](#) to your personal computer/laptop
2. Post your introduction in the “Meet your Classmates” discussion board
3. HW 1

### WEEK 2: August 30 and September 1

#### **READ**

1. PPT Slides: Chpt. 1 and Chpt. 2
2. Textbook: Chpt. 2

#### **DO**

1. HW 1

### WEEK 3: September 6 (Labor day holiday) and September 8

#### **READ**

1. PPT Slides: Chpt. 2
2. Textbook: Chpt. 2

#### **DO**

1. HW 2 and Quiz 1

### WEEK 4: September 13 and September 15

#### **READ**

1. PPT Slides: Chpt. 3
2. Textbook: Chpt. 3

#### **DO**

1. HW 2

## **WEEK 5: September 20 and September 22**

### ***READ***

1. PPT Slides: Chpt. 3 and Chpt. 4
2. Textbook: Chpt. 4

### ***DO***

1. HW 3 and Exam 1

## **WEEK 6: September 27 and September 29**

### ***READ***

1. PPT Slides: Chpt. 4
2. Textbook: Chpt. 4

### ***DO***

1. HW 3

## **WEEK 7: October 4 and October 6**

### ***READ***

1. PPT Slides: Chpt. 5
2. Textbook: Chpt. 5

### ***DO***

1. HW 4 and Quiz 2

## **WEEK 8: October 11 and October 13**

### ***READ***

1. PPT Slides: Chpt. 6
2. Textbook: Chpt. 6

### ***DO***

1. HW 4

## **WEEK 9: October 18 and October 20**

### ***READ***

1. PPT Slides: Chpt. 6
2. Textbook: Chpt. 6

### ***DO***

1. HW 4 and Exam 2

## **WEEK 10: October 25 and October 27**

### ***READ***

1. PPT Slides: Chpt. 7
2. Textbook: Chpt. 6

### ***DO***

1. HW 5 and Quiz 3

## **WEEK 11: November 1 and November 3**

### ***READ***

1. PPT Slides: Chpt. 8
2. Textbook: Chpt. 7 and Chpt. 9

### ***DO***

1. HW 5

## **WEEK 12: November 8 and November 10**

### ***READ***

1. PPT Slides: Chpt. 9
2. Textbook: Chpt. 9

### ***DO***

1. HW6 and Quiz 4

## **WEEK 13: November 15 and November 17**

### ***READ***

1. PPT Slides: Chpt. 10
2. Textbook: Chpt. 9 and Chpt. 10

### ***DO***

1. HW 6 and Exam 3

## **WEEK 14: November 22 and November 24**

### ***READ***

1. PPT Slides: Chpt. 11
2. Textbook: Chpt. 10

### ***DO***

1. HW 6 AND Project

## **WEEK 15: November 29 and December 1**

### ***READ***

1. PPT Slides: Chpt. 10
2. Textbook: Chpt. 9 and Chpt. 10

### ***DO***

1. Exam 4 and Project