

# Course Syllabus

[Jump to Today](#)

 [Edit](#)

## BUS 696: Special Topics in Business (Machine Learning for Managers)

Argyros School of Business and Economics  
Chapman University

	Course details
<b>Instructor:</b>	Jonathan Hersh, Ph.D Assistant Professor, Economics and Management Science  Argyros School of Business and Economics
<b>Teaching Assistants:</b>	Joshua Anderson ( <a href="mailto:ander428@mail.chapman.edu">ander428@mail.chapman.edu</a> ( <a href="mailto:ander428@mail.chapman.edu">mailto:ander428@mail.chapman.edu</a> .)
<b>Classroom Meetings:</b>	Wednesdays 7:00 pm - 9:50 pm
<b>Classroom:</b>	Zoom Link (May change to HyFlex classroom)
<b>Office Location:</b>	BK 307G
<b>Instructor Office Hours</b>	Wednesdays 5:00 pm - 6:30 pm
<b>TA Office Hours</b>	TBD
<b>Email:</b>	<a href="mailto:hersh@chapman.edu">hersh@chapman.edu</a> ( <a href="mailto:hersh@chapman.edu">mailto:hersh@chapman.edu</a> .)
<b>Course Webpage:</b>	<a href="https://canvas.chapman.edu">https://canvas.chapman.edu</a>

### Course Descriptions

**This is a course on how to apply machine learning and statistical models to business data to learn and communicate actionable information.** Firms have more data than they know how to manage, and are facing a shortage of intelligent people who know how to extract useful information from this data. Data is not necessarily knowledge. Knowledge is knowing how to learn from data to choose a course of action that will better meet one's objective.

**In this class, we will learn technical skills to build your foundation in analytics and machine learning.** If you are not comfortable programming or implementing and communicating statistical models, you will be by the end of the course. We will cover basic statistics and machine learning models, and learn how to implement them in the R programming language.

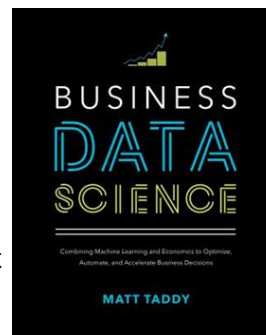
**This will be a class where coding is required. If you have no coding experience - not to worry. This class is designed to teach you to code in R and assumes no prior knowledge of R.** R is a powerful language, and with user-written extensions called packages, the capabilities are continually expanding. It also has a very active and friendly user community. To make the language more accessible, you may find it useful to install RStudio as a front end GUI (or graphical user interface). **Both R and RStudio are free!**

## Course Materials

### Textbooks

#### Textbook

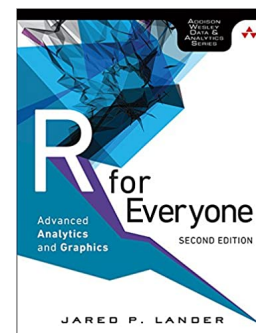
Taddy, M. (2019). *Business data science: Combining machine learning and economics to optimize, automate, and accelerate business decisions*. McGraw Hill Professional.



This is a really wonderful text that embeds statistical modeling within business decision making. Matt Taddy is formerly a statistics professor at University of Chicago, Booth School of Business, and now a VP at Amazon.

Lander, J. P. (2017). *R for everyone: Advanced analytics and graphics* (2nd ed.). Pearson Education.

Jared is a wonderful **educator** (<https://www8.gsb.columbia.edu/cbs-directory/detail/jpl2135>), statistician, and organizer of the **New York Open Statistical Programming** (<https://www.nyhackr.org/>) Meetups. This book is less technical than the above, and covers important programming advances in the R language. If you are new to R or programming, this book will be your new friend.



### Software

The **R-Programming** environment will be used in this course. It is an open-source solution that is freely available. The **RStudio** front end will be utilized with the R software. Both have implementations that work on Windows, MAC OS, and Linux operating systems. Please ensure you have these versions installed on your system:

- R 4.0.2:
  - **Window Download** [\\_\(https://cran.r-project.org/bin/windows/base/\)](https://cran.r-project.org/bin/windows/base/)
  - **Mac Download** [\\_\(https://cran.r-project.org/bin/macosx/\)](https://cran.r-project.org/bin/macosx/)
- Rstudio v.1.3.1073:
  - **Download** [\\_\(https://www.rstudio.com/products/rstudio/download/#download\)](https://www.rstudio.com/products/rstudio/download/#download)
- Miktex (needed to produce pdf output):
  - **Download** [\\_\(http://miktex.org/download\)](http://miktex.org/download)
- Compiler tools (needed to load certain packages)
  - Windows
    - **RTools** [\\_\(https://cran.r-project.org/bin/windows/Rtools/\)](https://cran.r-project.org/bin/windows/Rtools/)
  - Mac
    - **Xcode and GFortran** [\\_\(https://github.com/rmacoslib/r-macos-rtools/releases\)](https://github.com/rmacoslib/r-macos-rtools/releases)
- You may also use the free, cloud-based cloud-based **RStudio server** [\\_\(https://rstudio.cloud/\)](https://rstudio.cloud/).

**Note:** Software issues are **NOT** sufficient excuses for late/unfinished problem sets.

## Course Prerequisites

At least one of the followings:

- BUS 603-Business Statistics
- BUS 609-Business Analytics

## Course Learning Outcomes

Successful students will be able to:

- Define key **terminology** in model fitting and statistical learning
- Perform basic **data manipulation** in R
- Compute and interpret **descriptive statistics** in R
- Build, analyze, and interpret basic and intermediate **linear regression** models in R
- Build, analyze and interpret **logistic regression**
- Articulate the importance of and implement resampling techniques such as **cross-validation**
- Build, analyze and interpret tree-based methods such as **regression trees** and **random forest**
- Execute and understand simple unsupervised learning techniques such as **Principle component analysis** and **k-means clustering**
- Understand the business use case for machine learning models, being able to communicate about their properties to experts and non-experts.

## Course Format

### Class Structure

The course will consist of a mix of lectures and interactive coding exercises that we will do together. You are welcome to use the computers in the lab or bring your own laptop. In most classes, the students will perform technical analyses, in general, using R software and other tools. The technical analyses combined with instructor support is designed to

help the students learn by practicing the application of analytic modeling methods. Students are responsible for reading/viewing all materials assigned for a class period prior to that class period.

## Evaluation

Students will be evaluated with regard to their performance on a course project with a presentation and report, an exam, homework, in-class quizzes, and participation. The final course grade will be based on a weighted average of scores on all evaluated work.

Grading Scheme	
Evaluation Category	Percentage
Term Project and Presentation	40%
Midterm Exam	30%
Problem Sets	20%
Participation	10%
Total	100%

**Course Term Project (40%): In self-assigned groups of two to three you will choose a real-world setting in which to apply some of the techniques learned in this class.** You may self-select both your groups and the topic of study. However, I may suggest some datasets to work with to get you started. Appropriate topics include, "What are the characteristics of movies that do well at the box office?"; "Assessing demand for food trucks based on neighborhood characteristics?".

There will be two components to this term project 1) a presentation, and 2) a brief report. Additional details on the term project will be provided in a second, separate document presented later in the term.

**Midterm Exam (30%): A single, comprehensive modeling skills exam will account for 30% of your grade. The exam is cumulative in that you may be required to demonstrate all skills learned up to the time of the exam.** In the exam, students will be responsible for an analysis of a management problem requiring modeling to provide insight into the problem. **The exam will be take home, and will be open book, notes, Internet, etc. You may not copy and paste any answers found anywhere online or from other students. Students will need to demonstrate the use of the R software to complete the exam.** Additional information on the exam will be made available prior to the exam.

**Problem Sets (20%):** To learn how to code, one must spend time coding. To aid in your learning process, we will have four problem sets, where we will apply skills learned in the class. **All problem sets will be submitted via Canvas.** If a particular problem set requires compilation using RMarkdown and a compiled file is not submitted, I will penalize the grade on this problem set by 50%. I will drop the single lowest homework score from your final evaluation. Late submissions will be penalized 20% for each day late.

Students may and are encouraged to work on homework assignments together. Assignments may be submitted in groups of up to two. Assignments that do not represent the student's own work will be awarded a score of 0. This includes copying and pasting other students' code. You are encouraged to learn from each other, however, you must write your own code.

**Participation (10%):** Participation counts for the remainder of your grade. **To receive full points for participation, you should come to class, be engaged with the material, and participate in online discussions.** Students who are continually distracted by matters outside the classroom, including texting and email, will receive no points for

participation. **On many occasions, we will work on exercises together in-class, and you will be required to upload your code, which will factor into your participation grade. Visiting me during office hours at least once during the semester counts for your participation score!**

### Exam Date

Midterm Exam: **October 28th.**

### Final Grade

Final course letter grades will be assigned on the following scale:

Final Letter Grade Conversion			
A	95-100 %	C	73-76.9 %
A <sup>-</sup>	90-94.9 %	C <sup>-</sup>	70-72.9 %
B <sup>+</sup>	87-89.9 %	D <sup>+</sup>	67-69.9 %
B	83-86.9 %	D	63-66.9 %
B <sup>-</sup>	80-82.9 %	D <sup>-</sup>	60-62.9 %
C <sup>+</sup>	77-79.9 %	No Pass	< 60 %

### Course Resources:

- **Website:** All materials will be distributed on [Canvas \(http://canvas.chapman.edu\)](http://canvas.chapman.edu).
- **Office hours:** Trust me that I want to get to know you as an individual and help you achieve your potential. Please come and talk with me! I require that each student meet with me individually during office hours.
- **Announcements:** I will use Canvas for the course announcements.
- **Email:** If I have not replied in 24 hours, please email me again as it might have slipped my notice.
- **Discussions:** Canvas Discussion is a very useful tool to ask questions or have discussions about topics in the class. You can use this workspace to ask me questions about problem sets, to ask students to help you with coding bugs, or to communicate with your group members.
- **TAs:** The teaching assistants are available to answer your coding questions! Visit them in their TA office hours! Email your TAs if you have an urgent question or need help with problem sets. Ask them during the lecture if you have a question I cannot answer!
- **Poll Everywhere:** We will on occasion use Poll Everywhere software. My polls can be reached via [PollEv.com/hersh](https://pollev.com/hersh) [.\(https://pollev.com/hersh\)](https://pollev.com/hersh).

### Course Policies

- **Attendance.** I realize that the pandemic creates challenges to attend every class. I ask that you make every effort to attend classes synchronously. In the event that you need to miss a class, we will record every lecture.
- **Technology in class.** I ask that you use technology thoughtfully in the classroom. Web surfing and emailing are not allowed during lecture time. Technology is wonderful, but the careless use of it can distract others and prevent you from being fully engaged with the material. Please completely silence your phones (vibration mode is not silent), and resist being distracted by texting, or viewing Facebook or other distracting websites during class. If I see that you are using technology for any purposes other than for course material, you will receive no points for class participation on that day.

- **Makeup exam.** If you need a different time/date for the midterm exam, please email me in advance. I am happy to accommodate.
- **Classroom etiquette.** I truly believe that the classroom is a sacred space, even online. We should all strive to respect that space. This course will be hard at times, and that can be frustrating. The civility of peers and your instructor is expected at all times, both in the class and outside of it. Please come speak to me if you feel this is not being met.

## Technology Requirements

Canvas is the learning management system used for this course. Please [see the technological requirements for Canvas](https://community.canvaslms.com/docs/DOC-10721-what-are-the-basic-computer-specifications-for-canvas) [\\_\(https://community.canvaslms.com/docs/DOC-10721-what-are-the-basic-computer-specifications-for-canvas\)](https://community.canvaslms.com/docs/DOC-10721-what-are-the-basic-computer-specifications-for-canvas) in order to make sure you have the best experience possible. Also, please [download the Canvas mobile app](https://www.chapman.edu/campus-services/information-systems/software/canvas/student-training.aspx) [\\_\(https://www.chapman.edu/campus-services/information-systems/software/canvas/student-training.aspx\)](https://www.chapman.edu/campus-services/information-systems/software/canvas/student-training.aspx) and [set your Canvas notifications](https://community.canvaslms.com/docs/DOC-10910-4144710318) [\\_\(https://community.canvaslms.com/docs/DOC-10910-4144710318\)](https://community.canvaslms.com/docs/DOC-10910-4144710318), so you can receive important updates, announcements, and due dates. Information about using the mobile app can be found here: [Canvas mobile app guides](https://community.canvaslms.com/docs/DOC-4048-mobile-guides-canvas-student) [\\_\(https://community.canvaslms.com/docs/DOC-4048-mobile-guides-canvas-student\)](https://community.canvaslms.com/docs/DOC-4048-mobile-guides-canvas-student).

## Chapman University Academic Integrity Policy

Chapman University is a community of scholars that emphasizes the mutual responsibility of all members to seek knowledge honestly and in good faith. Students are responsible for doing their own work and academic dishonesty of any kind will be subject to sanction by the instructor/administrator and referral to the university Academic Integrity Committee, which may impose additional sanctions including expulsion. Please review the full description of Chapman University's policy on [Academic Integrity](https://www.chapman.edu/academics/academic-integrity/_files/academic-integrity-policy.pdf) [\\_\(https://www.chapman.edu/academics/academic-integrity/\\_files/academic-integrity-policy.pdf\)](https://www.chapman.edu/academics/academic-integrity/_files/academic-integrity-policy.pdf).

## Chapman Policy on Students with Disability

In compliance with ADA guidelines, students who have any condition, either permanent or temporary, that might affect their ability to perform in this class are encouraged to contact the Office of Disability Services. If you will need to utilize your approved accommodations in this class, please follow the proper notification procedure for informing your professor(s). This notification process must occur more than a week before any accommodation can be utilized. Please contact [Disability Services](https://www.chapman.edu/students/health-and-safety/disability-services/index.aspx) [\\_\(https://www.chapman.edu/students/health-and-safety/disability-services/index.aspx\)](https://www.chapman.edu/students/health-and-safety/disability-services/index.aspx) at (714) 516-4520 if you have questions regarding this procedure or for information or to make an appointment to discuss and/or request potential accommodations based on documentation of your disability. Once formal approval of your need for accommodation has been granted, you are encouraged to talk with your professor(s) about your accommodation options. The granting of any accommodation will not be retroactive and cannot jeopardize the academic standards or integrity of the course.

## Chapman University Equity and Diversity Policy

Chapman University is committed to ensuring equality and valuing diversity. Students and professors are reminded to show respect at all times as outlined in Chapman's [Harassment and Discrimination Policy](https://www.chapman.edu/faculty-staff/human-resources/eoo.aspx) [\\_\(https://www.chapman.edu/faculty-staff/human-resources/eoo.aspx\)](https://www.chapman.edu/faculty-staff/human-resources/eoo.aspx). Please review the full description of the Harassment and Discrimination Policy. Any violations of this policy should be discussed with the professor, the Dean of Students and/or otherwise reported in accordance with this policy.

## Recording Policy

In this class, software will be used to record live class discussions. As a student in this class, your participation in live class discussions will be recorded to assist those who cannot attend the live session, or to serve as a resource for

those who would like to review content that was presented. These recordings will be made available only to students who are enrolled in the class, and only during the period in which the course is offered. All recordings will become unavailable to students in the class shortly after the course ends. Students who prefer to participate via audio only will be allowed to disable their video camera so only audio will be captured. Please discuss this option with your instructor.

### Safety Protocols for On-Campus Instruction

We are living in interesting times. In response to the current COVID-19 pandemic, Chapman University has developed the CU Safely Back program (CUSBP) and mandatory safety measures (<https://news.chapman.edu/coronavirus/>). The University's mandatory safety measures may be stricter than local, state or federal guidelines and may be subject to change at any time. Students are expected to adhere to the University's safety measures while attending classes, including when entering and exiting classrooms, laboratories, or other instructional areas. Individual faculty may choose to have requirements for their courses that are stricter than the University's. Safety precautions and procedures may change in response to emerging findings and the recommendations of scientific experts and authorities. Refusal to abide by the University's mandatory safety measures or to the safety requirements specific to this course will result in your being asked to leave the area immediately, and may result in an administrative dismissal from this course.







The COVID-19 pandemic requires all of us to accept the possibility that changes in how this course is taught may be required and that some changes may occur with little or no notice. For example, some or all of the in-person aspects of a course may be shifted to remote instruction. If this occurs, you will be given clear instructions as to how to proceed. The uncertainty of the situation is not ideal for any of us. We must all try to approach this situation with good-will, flexibility, and mutual understanding.

## Tentative Schedule













Date	First Half Class	Second Half Class	Text Reading Due	Problem Set Due
Wed, Sep 2	Intro, Inference Vs Prediction	Installing R, Installing and Loading Packages, Loading Datasets, Data Visualization in ggplot2		
Wed, Sep 9	Basic Data Types, and Advanced Data Structures	Exploratory Data Analysis and Data Manipulation with Dplyr	R for Everyone, Chp 1-4, 7, 12 BDS, pages 1-16 (Introduction)	
Wed, Sep 16	Uncertainty, Bias-Variance Tradeoff and Cross-Validation	Functions, Loops, and R Markdown	BDS: Chp 2 R4E: Chp 8,9,28	
Wed, Sep 23	Linear Regression	Linear Regression Diagnostics	BDS: p41-50 R4E: Chp 19	Pset 1 (Basic Data Manipulation, Plotting)
Wed, Sep 30	Classification	Classification Diagnostics	BDS: pages 50-61 R4E: 20.1	
Wed, Oct 7	Regularization (Lasso, Ridge and ElasticNet)	Coding Lasso and Ridges	BDS: 69-97 R4E: 22.1	Pset 2 (Linear Regression and Classification)
Wed, Oct 14	Nonparametrics (Decision Trees and Random Forests)	Interpretable Machine Learning	BDS: pages 261-279 R4E: 23.4-23.6	













Wed, Oct 21		Exam Review		Pset 3 (Regularization)
Wed, Oct 28	Take-home Exam			
Wed, Nov 4	Experiments (A/B Testing)	Interview: Dave Holtz (MIT, formerly Spotify, Facebook, Airbnb)	BDS: 127-162	
Wed, Nov 11	Artificial Intelligence	Discuss Uber Case study	BDS: Chapter 10 Case study: Uber Applying ML to Improve Customer Pickup	
Wed, Nov 18	SQL	Discuss Pset 4	SQL Reading TBD	Pset 4 (Case Study: Improving Worker Safety in the Era of ML)
Wed, Nov 25	Thanksgiving			
Wed, Dec 2	Tableau	Interview with Peter?	Tableau Reading TBD	
Wed, Dec 9	Project Presentations			







## Course Summary:

Date	Details	Time
Wed Sep 2, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99252&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99252&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99645&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99645&amp;include_contexts=course_24330</a>	7pm to 10pm
Wed Sep 9, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99253&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99253&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99646&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99646&amp;include_contexts=course_24330</a>	7pm to 10pm
Wed Sep 16, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99254&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99254&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99647&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99647&amp;include_contexts=course_24330</a>	7pm to 10pm



Date	Details	
Wed Sep 23, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99255&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99255&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99648&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99648&amp;include_contexts=course_24330</a>	7pm to 10pm
	 <b>Problem Set 1 (Basic R Programming, Data Manipulation and Plotting)</b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256130">https://canvas.chapman.edu/courses/24330/assignments/256130</a>	due by 11:59pm
Wed Sep 30, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99256&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99256&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99649&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99649&amp;include_contexts=course_24330</a>	7pm to 10pm
	 <b>Optional Participation: Upload an Introduction Video</b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256361">https://canvas.chapman.edu/courses/24330/assignments/256361</a>	due by 11:59pm
Wed Oct 7, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99257&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99257&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99650&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99650&amp;include_contexts=course_24330</a>	7pm to 10pm
	 <b>Problem Set 2 (Linear Regression and Classification)</b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256131">https://canvas.chapman.edu/courses/24330/assignments/256131</a>	due by 11:59pm
Wed Oct 14, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99258&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99258&amp;include_contexts=course_24330</a>	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> <a href="https://canvas.chapman.edu/calendar?event_id=99651&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99651&amp;include_contexts=course_24330</a>	7pm to 10pm
Wed Oct 21, 2020	 <b>BUS 696 - Instructor Office Hours</b> <a href="https://canvas.chapman.edu/calendar?event_id=99259&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99259&amp;include_contexts=course_24330</a>	5pm to 6:30pm

Date	Details	
Wed Oct 28, 2020	 <b><u>BUS 696 - Course Zoom Link</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99652&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99652&amp;include_contexts=course_24330)         </a>	7pm to 10pm
	 <b><u>Problem Set 3 (Regularization, Lasso and Ridge)</u></b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256157">           (https://canvas.chapman.edu/courses/24330/assignments/256157)         </a>	due by 11:59pm
	 <b><u>BUS 696 - Instructor Office Hours</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99260&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99260&amp;include_contexts=course_24330)         </a>	5pm to 6:30pm
	 <b><u>BUS 696 - Course Zoom Link</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99653&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99653&amp;include_contexts=course_24330)         </a>	7pm to 10pm
	 <b><u>Take-Home Midterm Exam</u></b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256136">           (https://canvas.chapman.edu/courses/24330/assignments/256136)         </a>	due by 11:59pm
	 <b><u>BUS 696 - Instructor Office Hours</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99261&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99261&amp;include_contexts=course_24330)         </a>	5pm to 6:30pm
Wed Nov 4, 2020	 <b><u>BUS 696 - Course Zoom Link</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99654&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99654&amp;include_contexts=course_24330)         </a>	7pm to 10pm
	 <b><u>BUS 696 - Instructor Office Hours</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99262&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99262&amp;include_contexts=course_24330)         </a>	5pm to 6:30pm
Wed Nov 11, 2020	 <b><u>BUS 696 - Course Zoom Link</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99655&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99655&amp;include_contexts=course_24330)         </a>	7pm to 10pm
	 <b><u>BUS 696 - Instructor Office Hours</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99263&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99263&amp;include_contexts=course_24330)         </a>	5pm to 6:30pm
	 <b><u>BUS 696 - Course Zoom Link</u></b> <a href="https://canvas.chapman.edu/calendar?event_id=99656&amp;include_contexts=course_24330">           (https://canvas.chapman.edu/calendar?event_id=99656&amp;include_contexts=course_24330)         </a>	7pm to 10pm
Wed Nov 18, 2020	 <b><u>Problem Set 4 (Tree Methods, Case Study: Improving Worker Safety in the Era of ML)</u></b> <a href="https://canvas.chapman.edu/courses/24330/assignments/256158">           (https://canvas.chapman.edu/courses/24330/assignments/256158)         </a>	due by 11:59pm

Date	Details	
Wed Nov 25, 2020	 <b>BUS 696 - Instructor Office Hours</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99264&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99264&amp;include_contexts=course_24330</a> )	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99657&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99657&amp;include_contexts=course_24330</a> )	7pm to 10pm
Wed Dec 2, 2020	 <b>BUS 696 - Instructor Office Hours</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99265&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99265&amp;include_contexts=course_24330</a> )	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99658&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99658&amp;include_contexts=course_24330</a> )	7pm to 10pm
Wed Dec 9, 2020	 <b>BUS 696 - Instructor Office Hours</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99266&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99266&amp;include_contexts=course_24330</a> )	5pm to 6:30pm
	 <b>BUS 696 - Course Zoom Link</b> ( <a href="https://canvas.chapman.edu/calendar?event_id=99659&amp;include_contexts=course_24330">https://canvas.chapman.edu/calendar?event_id=99659&amp;include_contexts=course_24330</a> )	7pm to 10pm