

# Management Science / BUS-COL-BUSMGT-2320 Decision Sciences: Statistical Techniques Summer 2021

#### **Instructor:**

Name: Mrs. Schroeder

Department: Management Science

Office Location: Fisher Hall 330/[Zoom Room] E-mail: schroeder.1@osu.edu

Phone Number: 614-688-8062 (voice mail only)

Office Hours: By appointment (Please ask!)

# **Undergraduate Teaching Assistants:**

UTA	<mark>e-mail*</mark>	Office Hours	Zoom Room
Cara Fisher	FCOB-ms2320ta@osu.edu	R, 10:35 AM – 11:35 AM	<u>Cara's Room</u>
Sam Florence	FCOB-ms2320ta@osu.edu	R, 7:00 PM – 9:00 PM	Sam's Room
Stella Huang	FCOB-ms2320ta@osu.edu	Sa, 1:00 PM – 3:00 PM	Stella's Room
Adesh Lhabasetwar	FCOB-ms2320ta@osu.edu	W, 6:00 PM – 8:00 PM	Adesh's Room
Reema Rao	FCOB-ms2320ta@osu.edu	Tu and R, 11:30 AM – 12:30 PM	Reema's Room
Kolbe Stout	FCOB-ms2320ta@osu.edu	Tu, 6:00 PM – 8:00 PM	<u>Kolbe's Room</u>
Shelby Wolf	FCOB-ms2320ta@osu.edu	W, 8:00 AM – 10:00 AM	Shelby's Room
Haoran Zheng	FCOB-ms2320ta@osu.edu	M, 1:00 PM – 3:00 PM	<u>Haoran's Room</u>

<sup>\*</sup> Subject line must include BusMgt 2320 or BM2320

<u>Class Meeting Schedule</u>: Synchronous: Tuesday and Thursday\*\*, 9:00 AM – 10:35 AM, [<u>Zoom Room</u>]

\*\*Note: Due to the reduced number of class periods and the use of class meeting times for administration of tests during the Summer Session, we do not have weekly recitations. Rather, all lectures and recitations are "classes," but we will dedicate at least one class period during each module for recitation/review.

# **Course Materials / Software:**

Required: Pearson MyStatLab Access which includes e-text *Business Statistics: A Decision-making Approach,10e*; Groebner, Shannon, Fry

The textbook and/or courseware for this course is being provided via CarmenBooks. Through CarmenBooks, students obtain publisher materials electronically through CarmenCanvas, saving them up to 80%per title. The fee for this material is included as part of tuition and is listed as *CarmenBooks fee* on your Statement of Account. In addition to cost-savings, materials provided through CarmenBooks are available immediately on or before the first day of class. There is no need to wait for financial aid or scholarship money to purchase your textbook.

Unless you choose to opt-out of the program, you do NOT need to purchase any materials for this course at the bookstore. For more information on the program or information on how to opt out, <u>please visit the CarmenBooks</u> website.

Registration details and the required Access Code can be found in the Getting Started with MyStatLab help document on our Carmen > SU21 BUSMGT 2320 > Modules > Syllabi and General Information > COURSE INFO: Pearson Getting Started with MyStatLab.

# **Prerequisites:**

- Statistics 1430
- CSE 2111 or 1113

# **Course Description:**

Business Management 2320 offers an introduction to the application of statistical tools used extensively in the business environment to assist the decision-maker. Topics covered include estimation and hypothesis tests about population means and proportions, chi-square tests for independence and goodness-of-fit, analysis of variance, regression analysis and model building, and forecasting with time series data. A wide variety of business problems are explored through mini-case presentations and data driven exercises, with procedural emphasis on method selection, statistical procedure, teamwork, and effective communication.

# **Course Learning Outcomes:**

Vast amounts of data are collected in today's global business and economic environment. The most successful decision-makers and managers are those individuals/groups that can put this information to work effectively to guide their decision process, are able to accurately communicate the statistical results that drive these decisions, can work effectively as a member of a diverse team, and present themselves in a manner appropriate for a business environment. By the end of this course, students should be able to:

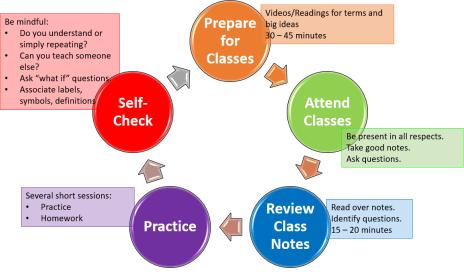
- Evaluate a business scenario and determine which of the statistical tools introduced in the course, if any, is most applicable for generating information from data that can aid the decision maker.
- Successfully leverage technology to apply any and all of the statistical tools introduced in the course to answer a specific question.
- Write a concise report that details the problem solving process and conclusions.
- Work effectively with a team of diverse individuals to successfully complete a challenging task.

# **How This Course Works:**

Mode of delivery: This course is 100% online but includes both synchronous (via Zoom) and asynchronous components.

Pace of online activities: The content in Business Management 2320 builds sequentially week to week, beginning with the foundation laid in Statistics 1430. Students who fail to keep pace in their study of the material with the presentation schedule will struggle to catch up once they fall behind. The successful student in Business Management 2320 is one who makes every attempt to master each new concept as it is presented, and seeks help from the BM2320 staff if needed in real-time. This course is designed to provide the framework for reasonably short but regular engagement with the material. We emphasize an approach to learning consistent with the principles of the PLRS Learning Cycle accredited to Frank L Christ.

You can expect a regular weekly cadence of 1) preparation for the week's classes, 2) participation in classes, 3) review of class notes, 4) repetition through practice, and 5) mindful study. To be successful in BM2320, *follow the wheel*:



Adapted from Frank Christ's PLRS system.

The weekly materials will be posted in advance on your BM2320 Carmen Course in a Module identified as "Instruction Week # (dates) – title". Each module includes

- START HERE: Week # Overview
- Week # Videos
- Week # Tuesday Agenda and Materials
- Week # Thursday Agenda and Materials
- Week # Additional Practice
- Week # Learning Outcomes

**Credit hours and work expectations:** This is a **3-credit-hour course** delivered in 12 weeks. According to <u>Ohio State</u> <u>policy</u>, students should expect to spend 3 - 3.5 hours per week on direct instruction (class prep and in-class content) in addition to dedicating about 6 - 7 hours to assignments, practice, and study.

**Attendance and participation requirements:** Because this is an online course, your attendance is based on your online activity and participation. The following is a summary of everyone's expected participation:

- 1) Class Prep Asynchronous on-line learning prior to your scheduled class
  - ➤ Watch assigned videos posted on Carmen in weekly instruction module or complete assigned readings in Groebner, *Business Statistics: A Decision-making Approach,10e* on MyStatLab (average time requirement ≈ 30 minutes). See the "START HERE: Week # Overview" content page in each weekly module for details.
  - > This component prepares you for the class discussion to follow.
- Classes Synchronous 95-minute Zoom meetings on "Day" = Tuesday and Thursday [Zoom Room] –
   Use of Zoom video is strongly encouraged.
  - Notes will be posted each week on Carmen > SU21 BUSMGT 2320 > Modules > Week # > Day Agenda and Materials
  - Attendance is necessary for successful completion of this course. Class attendance correlates positively with exam performance.
  - Regular opportunities to earn bonus points from class participation will be offered.
    - The best 15 scores will be used. Each opportunity can be worth up to 2 points (total 6% bonus).

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\geq 90% = 2 points

\geq 80% - 89.99% = 1.5 points

\geq 70% - 79.99% = 1 point

\geq 60% - 69.99% = 0.5 point
```

- > The classes will be recorded and posted on Carmen > SU21 BUSMGT 2320 Modules > Week # Day Agenda and Materials after the class meeting, usually within 24 hours.
- **3)** Wrap up the weekly module by "putting pen to paper" and quiz yourself while you are doing it. "Why am I being required to answer these questions in this order? What symbol would I use to replace this word? What would happen if I changed this value to something larger? Reading and re-reading the notes and text will not be sufficient for you to understand the concepts and, by extension, for you to successfully complete cases and exams. Practice with a wide variety of problem scenarios is vital
  - > See Carmen > SU21 BUSMGT 2320 > Modules > Instruction Week # (dates) title > Additional Practice for instructor composed questions with explanation/solution (no point value)
  - ➤ Homework using Pearson MyLab will be due each Sunday at 11:59 pm.
  - Your best 10 HW scores will count toward your grade.

# **Grading and Evaluation:**

**Grading Scale:** The class earned distribution will adhere as closely as possible to the Ohio State University recommended distribution. The *anticipated* distribution is:

A = 93% and above	B+ = 87% to 89.9%	C+ = 77% to 79.9%	D+ = 65% to 69.9%
A- = 90% to 92.9%	B = 83% to 86.9%	C = 73% to 76.9%	D = 60% to 64.9%
	B- = 80% to 82 9%	C- = 70% to 72 9%	F = helow 60%

Graded assignments may come in three forms, and students should note the expectations for each in the descriptions of our class assignments below.

- (N) Independent Work ( † ): Strictly non-collaborative, original-individual work. You may discuss this assignment only with your instructor. Discussions with other individuals, either in person or electronically, are strictly prohibited.
- **(RC) Required Collaboration (**##): An explicit expectation for collaboration among students either in-class or outside (i.e. group work).
- **(OC) Optional Collaboration (** Students are permitted, but not required, to discuss the assignment or ideas with each other. However, all submitted work must be one's original and individual creation.

Assignment Name	Points / Weight	Assignment Type
(N) Best 2 of 3 Section Test Scores @75 pts each	150 pts / 30%	Ť
(N) Comprehensive Final Exam	150 pts / 30%	Ť
(RC) 3 Group Cases @ 50 points each	150 pts / 30%	<b>#††</b> †
(OC) Best 10 HW Scores @ 5 points each	50 pts / 10%	•
TOTAL COURSE POINTS	500 / 100%	

# **Course Assignments:**

Section Tests – In an effort to encourage and reward timely progress through the course material, 3 fairly evenly spaced tests will be given.

- Only 2 of the 3 tests will count toward your course grade.
- MAKEUP tests will be considered only under the most extreme circumstances. I count only 2 of the tests in order to provide every student the opportunity to deal with life's speed bumps (or to enjoy life's pleasures).
  - o Illness, emergency, technical failure, vacation you name it are reasons for not counting one of the section tests.
- > These will be administered on the MyStatLab platform during regularly scheduled class time. If you are unable to take the tests and final exam as scheduled, drop the class and take it when your schedule is more flexible.
- > You may reference any and all course resources (book/notes, Excel, StatCrunch) during a section test.
- You may NOT communicate with any other persons (physically, virtually, electronically, or otherwise) during a section test.
- Detailed information regarding each Section Test will be posted on Carmen > SU21 BUSMGT 2320 > Modules > Test and Exam Info > Section Test #.

Final Exam – A comprehensive exam will be administered on MyLab during the University scheduled final exam time, M, 8/2, 10:00 AM – 11:45 AM.

- You may reference any and all course resources (book/notes, Excel, StatCrunch) during the final exam.
- You may **NOT** communicate with any other persons (physically, virtually, electronically, or otherwise) during the final exam
- Detailed information regarding the Final Exam will be posted on Carmen > SU21 BUSMGT 2320 > Modules > Test and Exam Info > Final Exam.

Group Cases/Practical Exercises – Achieving success in a business career will require the ability to work effectively in teams. Learning theory and techniques is necessary but not sufficient for statistical analysis in today's business world. Statistical analysis in support of business decisions requires the manager to understand statistical software and interpret statistical results. Whether you are charged with performing the statistical analysis or not, you must be able to determine whether presented statistical results make sense and are reasonable. The Practical Exercises are designed to provide a preview of real world projects.

Detailed information for each Group Case will be posted on Carmen > SU21 BUSMGT 2320 > Modules > Practical Exercises > assignment name.

# **Grade Appeal Policy:**

Although we make every effort to grade in a consistent and fair manner, occasionally an error is made or a student feels that an error has been made. Any notification of a missing grade or request for re-evaluation of a grade must be **submitted, in writing, within two weeks** of grade availability. Any re-grading of work will result in the entire document being re-evaluated. You must check your scores in MyStatLab and in Carmen regularly. Claiming ignorance of a missing grade will not be accepted as a legitimate reason to revisit a grade after the two week deadline.

# **Grievances and Solving Problems:**

According to University Policies, if you have a problem with this class, you should seek to resolve the grievance concerning a grade or academic practice by speaking first with the instructor or professor. Then, if necessary, take your case to the department chairperson, associate dean for programs in the college, and to the provost, in that order. Specific procedures are outlined in Faculty Rule 3335-7-23. Grievances against graduate, research, and teaching assistants should be submitted first to the supervising instructor, then to the chairperson of the assistant's department

# **E-mail communication:**

All general course inquiries must be sent from a secure OSU e-mail address to FCOB-ms2320ta@osu.edu.

- If you have not previously activated your OSU e-mail visit <a href="http://www.oit.ohio-state.edu/userpass.html">http://www.oit.ohio-state.edu/userpass.html</a> and click on 'how to activate' or call (614) 688-HELP.
- The "Subject" line must include **BM2320**
- Expect a response by the next business day if not sooner. If you do not receive a timely response, and you have verified that you did all things correctly on your end, please re-send your inquiry. I am very responsive to e-mail.

# **Instructor Feedback and Response Expectations:**

- All MyLab and Mastering work (quizzes, homework, tests, final exam) is graded in real time.
- Scores for all Practical Exercises should be available approximately 2 weeks from submission.

# Safety and health requirements:

All teaching staff and students are required to comply with and stay up to date on all <u>University safety and health</u> <u>guidance</u>, which includes wearing a face mask in any indoor space and maintaining a safe physical distance at all times. Non-compliance will be warned first and disciplinary actions will be taken for repeated offenses.

#### **Disability Services:**

The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. **SLDS contact information:** slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12<sup>th</sup> Avenue.

# **Academic integrity:**

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct (<a href="https://trustees.osu.edu/bylaws-and-rules/code">https://trustees.osu.edu/bylaws-and-rules/code</a>) and this syllabus may constitute Academic Misconduct (<a href="https://oaa.osu.edu/academic-integrity-and-misconduct">https://oaa.osu.edu/academic-integrity-and-misconduct</a>)

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: Any activity that tends to compromise the academic integrity of the University, or subvert the educational process. Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an excuse for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

# **Course technology:**

For help with your password, university email, Carmen, or any other technology issues, questions, or requests, contact the Ohio State IT Service Desk. Standard support hours are available at <a href="https://ocio.osu.edu/help/hours">ocio.osu.edu/help/hours</a>, and support for urgent issues is available 24/7.

Self-Service and Chat support: ocio.osu.edu/help

Phone: 614-688-4357(HELP)Email: servicedesk@osu.edu

• **TDD:** 614-688-8743

#### Baseline technical skills for online courses

- Basic computer and web-browsing skills
- Navigating Carmen: for questions about specific functionality, see the <u>Canvas Student Guide</u>.

#### **Pearson MyLab and Mastering**

For technical support See document titled "Trouble-shooting in MyStatLab" posted on Carmen > SP21 BUSMGT
 2320 > Modules > Resources > Technology Help.

#### Required Technology skills specific to this course

- CarmenZoom virtrual meetings
- Basic Excel literacy

#### Required equipment

- Computer: current Mac (OS X) or PC (Windows 7+) with high-speed internet connection
- Webcam: built-in or external webcam, fully installed and tested
- Microphone: built-in laptop or tablet mic or external microphone
- Other: a mobile device (smartphone or tablet) or landline to use for BuckeyePass authentication

#### **Required software**

- <u>Microsoft Office 365:</u> All Ohio State students are now eligible for free Microsoft Office 365 ProPlus through Microsoft's Student Advantage program. Full instructions for downloading and installation can be found <u>at go.osu.edu/office365help.</u>
- StatCrunch: Statistical software included as part of the MyStatLab package.
- Learning Catalytics: Quizzing tool included as part of the MyStatLab package.

**Carmen access:** You will need to use <u>BuckeyePass</u> multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you take the following steps:

- Register multiple devices in case something happens to your primary device. Visit the <u>BuckeyePass Adding a</u>
   Device help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your
  computer, click Enter a Passcode and then click the Text me new codes button that appears. This will text you
  ten passcodes good for 365 days that can each be used once.
- Download the <u>Duo Mobile application</u> to all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at 614-688-4357 (HELP) and IT support staff will work out a solution with you.

#### Copyright:

© The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

#### **TESTIMONIALS**

"I was asked to explain how I would attack a particular business problem in my interview with L Brands, and I was able to use what I learned from one of our case studies to respond. They were really impressed! I was offered an internship."

... and I was a student in your business statistics class during Autumn of 2015 at OSU. I'm currently interning at Cardinal Health as a marketing analyst, and I thought I would say thank you for all that you taught me during that class. Many of my projects require a deep understanding of the statistical models we learned about, and I've been simplifying most of the work using my experience in Minitab. Thank you for the thorough instruction and keep up the excellent work!

.... although the material had not been my favorite at the time, I learned much throughout your class. Currently, I am interning at GE Lighting in Cleveland, and have used what you taught in class more than I thought! We are currently learning about Six Sigma with Green Belts and Black Belts, and, I understand much more than my fellow interns. Specifically, the case studies you had used in class have helped a great deal. I just wanted to shoot you an email thanking you for the class. Even though the material was hard at first, understanding even the basics have benefitted greatly in the workplace.

I just want to thank you for helping me during office hours... Honestly, it was intimidating to come to the first office hour, but after getting to know each other better and you helping me answer my questions and understand concepts, I felt like I was a fool for not coming earlier before midterm 1!!! With all the professors I've had up until my 2nd year, I think you've been the most helpful and influential. Thanks you so much, again for a great semester!

I just wanted to send you a quick e-mail. I know I told you this in your office before the final but I wanted to let you know again how much I appreciated your class. I received a B this semester in your class and it was the hardest B I've ever worked for. From your class I learned how to study and balance things on a whole new level .....

I wanted to reiterate today what I said in class and that is thank you. I believe your teaching structure to be very beneficial to students and time effective. you truly care about the students and have always been willing to help no matter how simple the question. Though this will most likely be my first C in my academic career I have learned a lot from the class and the experience overall. I hope the rest of the week goes well for you and you have an enjoyable break!

I heard a lot of stories about how tough your class was going into this past quarter. But I actually really enjoyed your class and learned a lot of applicable skills that I will use in the future. So I'd like to thank you....

I took your class last fall. This fall I am taking a course in Six Sigma. Our current topic for our midterm next week is all about hypothesis testing and statistical analysis. So I just wanted to thank you for drilling it into our heads so well all those statistical concepts that I can now easily breeze through.

I just want to thank you, from the bottom of my heart, for this past quarter! This class has been so hard for me and I know that I barely passed, I just want to thank you so much for dealing with me and not giving up on me! I'll always be grateful!

I can not begin to thank you for everything that you have done for me this semester. You have taught me so much about stats and ultimately how to be prepared in and out of the classroom. Thanks you for spending extra time with me on Tuesdays to further my knowledge about the recitation and the class. This time, on top of the countless hours I put in studying allowed me to be successful on the final exam. I am thankful to have had a professor that cared as much as you.

#### SAMPLING OF APPLICATIONS

#### **Accounting**

- Estimate mean amount receivable among all customers
- Estimate costs by determining the relationship between a cost and some measure of the level of activity
  creating that cost, e.g., selling expenses and total sales, direct labor costs and batch size, electricity costs and
  hours of machine time

#### **Finance and Economics**

- Estimate average returns on investment
- Measure risk associated with investment instruments or portfolios
- Estimate relationship between price and demand
- Estimate relationship between performance of individual stock and the performance of a stock index

#### **Human Resources**

- Predict employee retention
- Assess relationship between employee screening tests and job success
- Estimate relationship between salary and employee characteristics to guard against discrimination or to explain severance packages

#### Marketing

- Understand market segmentation estimate characteristics of likely consumers of a product
- Estimate exposure to advertising
- Estimate market share

#### **Operations Management**

- Estimate expected completion time of a project
- Estimate demand for a product during lead time
- Estimate relationships between revenues or costs and proximity to suppliers, skilled labor, etc.
- Determine service level

# <u>Tentative</u> Course Schedule – Summer 2021 PE = Practical Exercise, T = Tuesday, R = Thursday, F = Friday, T/E = Test/Exam

# MyStatLab Homework due each Sunday at 11:59 PM

Week	Dates	Topic	e-text	Deliverables
1	R, 5/13	Intro to Course		
2	T, 5/18	Sampling Distributions Confidence Intervals	Chapter 7 Chapter 8	
	R, 5/20	One-sample Z Hypothesis Tests		
3	T, 5/25	Student's t Distribution One-sample t Inference Paired t Inference $[\mu_D]$	Chapter 8.1 Chapter 9.1 Chapter 10.3	
	R, 5/27	HT Part II [μ and p] – Type I Error, Type II error, Power	Chapter 9.3	
	T, 6/1	Review/Practice		
4	R, 6/3	All topics Chapters 1 – 9, 10.3	Details: Carmen > Modules > Test/Exam > Section Test 1	Section Test 1
	F, 6/4		Details:Carmen > Modules > Practical Exercises > Group Case #1	Group Case #1 by 11:59 PM
5	T, 6/8	Two Independent Sample Comparisons $[\mu_1 - \mu_2, p_1 - p_2]$	Chapter 10.1, 10.2, 10.4	Sy 11.55 TW
	R, 6/10	Chi-square Tests	Chapter 13	
6	T, 6/15	Review/Practice		
U	R, 6/17	ANOVA I	Chapter 12.1	
7	T, 6/22	ANOVA II	Chapter 12.3	
	R, 6/24	Review/Practice		
	T, 6/29	All topics Chapters 1 - 12	Details: Carmen > Modules > Test/Exam > Section Test 2	Section Test 2
8	R, 7/1	Simple Linear Regression	Chapter 14.1, 14.2	
	F, 7/2		Details:Carmen > Modules > Practical Exercises > Group Case #2	Group Case #2 by 11:59 PM
9	T, 7/6	Simple Linear Regression	Chapter 14.3 Chapter 15.5	
	F, 7/8	Review/Practice		
10	T, 7/13	Multiple Regression	Chapter 15.1, 15.2	
	R, 3/15	Multiple Regression	Chapter 15.3	
11	T, 7/20	Review/Practice		
	R, 7/22	Lecture 4 - Lecture 9	Details: Carmen > Modules > Test/Exam > Section Test 3	Section Test 3
12	T, 7/27	Forecasting with Time Series	Chapter 16.3 + videos	
	R, 7/29	Forecasting with Time Series	Chapter 16.1, 16.2	
	F, 7/30	Multiple Regression	Details:Carmen > Modules > Practical Exercises > Group Case #3	Group Case #3 by 11:59 PM
M, 8/2 10:00 –	11:45 AM	Comprehensive, Lectures 1 - 15	Details posted on Carmen > Modules > Test/Exam > Final Exam	Final Exam, MyLab

Bonnie Schroeder is inviting you to a scheduled Zoom meeting.

Topic: BM2320 SU21

Join Zoom Meeting

https://osu.zoom.us/j/93580122713?pwd=cVF0L1hoS2pBUHh1V20zckxNNDduQT09

Meeting ID: 935 8012 2713

Password: 206960 One tap mobile

+16513728299,,93580122713#,,,,0#,,206960# US (Minnesota)

+13017158592,,93580122713#,,,,0#,,206960# US (Washington DC)

#### Dial by your location

+1 651 372 8299 US (Minnesota)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 408 638 0968 US (San Jose)

Meeting ID: 935 8012 2713

Password: 206960

Find your local number: https://osu.zoom.us/u/abLFWDgCrx

#### Join by SIP

93580122713@zoomcrc.com

Join by H.323

162.255.37.11 (US West)

162.255.36.11 (US East)

115.114.131.7 (India Mumbai)

115.114.115.7 (India Hyderabad)

213.19.144.110 (Amsterdam Netherlands)

213.244.140.110 (Germany)

103.122.166.55 (Australia Sydney)

103.122.167.55 (Australia Melbourne)

64.211.144.160 (Brazil)

69.174.57.160 (Canada Toronto)

65.39.152.160 (Canada Vancouver)

207.226.132.110 (Japan Tokyo)

149.137.24.110 (Japan Osaka)

Meeting ID: 935 8012 2713

Password: 206960

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CarmenZoom is supported by the Office of Distance Education and eLearning: http://odee.osu.edu/

# **Support Resources**

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- System Status: https://go.osu.edu/systemstatus
- Find solutions and report issues: https://go.osu.edu/it
- Help Articles: https://teaching.resources.osu.edu/toolsets/carmenzoom
- Non-Discrimination Notice: https://go.osu.edu/nondiscrimination-notice
- Privacy Statement: https://osu.edu/privacy

#### Contact Us

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- Phone: 614-688-4357 (HELP)
- Email: carmenzoom@osu.edu

- In Person: https://techhub.osu.edu/buckeyebar

- Accessibility Help Line: 614-292-5000