Syllabus
QMB3200, Sec 521 (Web Hybrid), 3 Credit Hours
Business and Economic Statistics II
Spring 2015, Room A-203B

Instructor:  Dr. Ram Govindu
Office:  SMC-C229
E-Mail:  RGovindu@sar.usf.edu
Class Time:  2:00–4:30 p.m. Thursday
Classroom: A-203B
Office Telephone:  941-359-4523
Office Hours:  By appointment

(Send me an e-mail to schedule one in advance)

PREREQUISITES: QMB 2100: Business and Economic Statistics I is a prerequisite for this course. You should have a grade “C” or better (not C-) in it. It will be assumed that you are proficient in topics covered in that course. The topics covered in QMB 2100 (chapters 1-11 and 19 of the textbook) include: Data description, exploratory data analysis, introduction to probability, binomial and normal distributions, sampling distributions, estimation with confidence intervals, tests of hypotheses and control charts for quality improvement.

COURSE DESCRIPTION:
Catalog Description of the course: Simple linear regression and correlation, multiple regression and model building, forecasting models, analysis of variance, chi-square tests, nonparametric methods.

Purpose of the course: The first course in Statistics (QMB 2100) covers descriptive statistics, probability distributions, and inference. QMB 3200 is the second course in Statistics. The purpose of QMB 3200 is to prepare students to appreciate the role statistics plays in data analysis and decision making in various business environments. In particular it prepares the students to “Learn”, “Apply”, and “Interpret” the results for techniques like Contingency Analysis, Goodness of Fit, ANOVA, Regression, Forecasting, and Nonparametric Testing on various types of Business Decision problems.

COURSE TOPICS:
In addition to a quick review of the topics from the first course QMB 2100 (namely probability distributions, hypothesis testing, and inference); QMB 3200 primarily covers advanced statistical techniques such as chi-square test, analysis of variance, simple linear and multiple regression, time series analysis and forecasting, and non-parametric methods.

COURSE OBJECTIVES:
At the conclusion of the course the student should be able to develop familiarity, understanding, and expertise to apply advanced statistical methods to:

1. Identify opportunities and apply chi-square tests for contingency analysis and goodness of fit
2. Identify opportunities and apply Analysis of Variance for various business applications
3. Identify application opportunities, perform simple linear and multiple regression analysis, and utilize results for various business decisions
4. Analyze Time-series patterns and apply forecasting methods for various business applications
5. Conduct distribution free hypothesis testing methods for inference in business problems

COURSE STUDENT LEARNING OUTCOMES: At the conclusion of the course students should be able to:

1. Develop hypothesis from a problem statement, choose an appropriate statistical technique to apply given the problem context, perform the analysis; and most importantly, interpret the reports/results, and develop conclusions
2. Perform hypotheses tests on categorical data using Chi-Square tests and tests of independence
3. Identify an appropriate design to perform Analysis of Variance (ANOVA) on data; develop hypothesis statements, perform the analysis, understand, and interpret ANOVA output from Excel; and develop conclusions
4. Formulate both simple and multiple regression models for given data, understand and interpret the regression output from Excel and statistical software package like Minitab, test some common hypotheses about relationships between variables
5. Develop an understanding for patterns in Time Series data, select an appropriate forecasting technique given the pattern, and develop forecasts using techniques like Naïve, Moving Averages, Exponential Smoothing, and Regression methods
6. Develop hypothesis from a problem statement, choose and apply an appropriate nonparametric test given the problem context; and most importantly, interpret the reports/results, and develop conclusions
TEXT AND MATERIALS:

- Statistics for Business and Economics, 12th Edition by:
  David R. Anderson, Dennis J. Sweeney, Thomas A. Williams, Jeffrey D. Camm, and James J. Cochran
  Focus of QMB3200 is primarily on: Chapters 12, 13, 14, 15, 17, and 18

CANVAS USE:

The class syllabus is posted in Canvas, an online course management system. In this class Canvas will be used for posting presentations, assignments, quizzes, exams, and any other material. Information on how to use Canvas is available at: http://usfsm.edu/e-learning-services/student-resources/

COMPUTER LAPTOP USE:

USFSM requires all students to have laptops that can be brought with them to class. The Professor’s policy is as follows:

- You MUST bring and USE the laptop to practice solving problems in class.
- If the laptops are being used for any purpose other than learning the subject in class, then the Professor reserves the right to ask you to leave the class.

PLAGIARISM SOFTWARE:

The University of South Florida has an account with an automated plagiarism detection service which allows student assignments be checked for plagiarism. I reserve the right to ask students to submit their assignments to Turnitin through Canvas. Assignments are compared automatically with a database of journal articles, web articles, and previously submitted papers. The instructor receives a report showing exactly how a student’s paper was plagiarized.

PLEASE REMOVE YOUR NAME FROM THE BODY OF YOUR PAPER AND REPLACE IT WITH YOUR USF ID#. ALSO REMOVE YOUR NAME FROM THE FILE NAME AND REPLACE IT WITH YOUR USF ID# (e.g., “U12345678 Homework 1.docx”) BEFORE SUBMITTING IT TO TURNITIN.

Pursuant to the provisions of the Family Educational Rights and Privacy Act (FERPA), students are requested to maintain confidentiality as a way to keep their personal contact information (i.e. name, address, telephone) from being disclosed to vendors or other outside agencies. By your submission, you are also agreeing to release your original work for review for academic purposes to Turnitin.

COURSE COMMUNICATION:

Course material

Course presentations/recordings will be posted on a weekly basis to the course website and can be found under “Modules” in a weekly folder. All additional documents, homework assignments, quizzes, and solutions will also be posted under “Modules”.

How to communicate with me

E-mail is the best and quick mode of communication. Should you need to talk to me or see me for anything you can either (i) send me an email, (ii) e-mail me for setting up an appointment to see me in my office, or (iii) for a discussion over phone at a mutually convenient time. Please just do not leave voice mails on my phone as I may be out of office for extended periods of time and if I am out of my office, I check my voice mails only when I am able to. If you are e-mailing me, please write the appropriate subject and please write your name at the bottom of the email. As a courtesy, please commence your email with a greeting such as “Dear Dr. Govindu”.

How NOT to communicate with me

- Please don’t post questions in the comments section of Canvas homework submissions. I will not read your comments until I sit down to grade your assignment.
- Please don’t email me from a non-USF email account.
- Please don’t submit deliverables to me through email. It will be treated as a non-submission.
- Please don’t reply to an email that I send to the entire class without changing the subject unless your question is about that subject. If you are using the “Reply” button as a means to get my email address in the “To” line, please change the subject line and also delete all previous text from that email, if your email pertains to something else. In which case it is better to not use the “reply” button and just start a fresh email.
How will I communicate with you?
I will use the Canvas mail utility to send you all emails pertaining to the course. So you must check your USF mail account regularly. Typically I will send out emails when an assignment has been posted or has been graded or when an exam is posted or is due to close or has been graded or any other general announcements.

GRADING, EVALUATION, AND ATTENDANCE POLICIES:

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<tr>
<td>Homework Assignments</td>
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<td>Quizzes</td>
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<td>Exam #1 (Take Home)</td>
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Grade cutoffs will be as follows:

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Your score determines your grade. No individual requests for grade adjustments shall be entertained.

ATTENDANCE AND CLASS PARTICIPATION:
There are three mandatory in-class meeting days for the course – 1/8, 3/26, and 4/30. Attendance is mandatory and required on all those in-class meeting days. In addition, the instructor will conduct three in-class non-mandatory tutoring/review sessions scheduled for 2/12, 3/19, and 4/23 in preparation for the three exams. While these tutoring sessions are termed non-mandatory due to rules and regulations, students are strongly advised to attend them without fail as there is historical evidence that those sessions help improve student performance on exams. While attending classes, students cannot show-up/leave at will. They must be present for the entire class duration and participate in solving problems. The nature of the course is such and there is also strong evidence that students who attend/participate in the classes (be them face-to-face or on-line) regularly end up learning the subject matter better and earn good grades. If you happen to miss any class for any reason, you need to seek permission in advance through e-mail and need to make up for course coverage. Quizzes, Homework assignments, and Exams are due by the deadline indicated irrespective of whether you have missed a class. When in class, students have to participate in class proceedings and are strictly prohibited from playing with their electronic gadgets (like cell phone, laptop … etc.) and indulging in disruptive behavior that hinders learning of fellow students. Any disruptive behavior shall be reported and dealt with strictly under the academic disruption policy of USFSM.

HOMEWORK ASSIGNMENTS:
All homework assignments are individual tasks. Every week specific topic/s will be covered in class along with solved example problems. Homework will be assigned Thursday night that consists of a set of problems similar to the solved example problems discussed in class/in PPT files. You will have approximately 5-6 days including the weekend to solve the problems and to create a Report by hand (no need for typing). You will scan the report into a single file and submit it on Canvas. The strict deadline for HW submission into the digital drop box will be 11:59 p.m. US Eastern on Wednesday the following week. No late submissions are allowed. Be prepared to lose HW points if the Report is not turned in before the deadline. No e-mail submissions or hard-copy submissions are accepted. You get partial credit for incomplete submissions. HW report must demonstrate student’s own work. If any HW reports are found to be copied, all students who helped and received help shall be treated as violators, will receive a zero points, and be reported for academic dishonesty. All HW scores shall count towards final grade. Homework Reports will be graded for Relevancy and Completeness but not for Accuracy. As long as the submissions are on time, relevant, and complete; you get full points. Solutions will be made available within a couple of days past the deadline. It is your responsibility to compare solutions with your answers and learn from the same in preparation for exams. Seek help from the instructor or student tutor as needed. Please remember that solving Homework Assignments on your own is the most important step in preparing for exams.
READING ASSIGNMENTS AND QUIZZES:
Reading Assignments are mandatory. Complete chapter readings before the deadlines indicated prior to attending class/listening to the recorded presentation. As you read the chapters, workout the solved example problems. All Quizzes are individual tasks and will test conceptual understanding for the subject matter. Every week specific topic/s will be covered in class. Once a chapter is completed, an online quiz will be posted on Canvas assigned Thursday night. Each quiz consists of a set of “multiple choice” questions. You will have approximately 6 days including the weekend to complete the Quiz. It always helps and perhaps your performance will be better if the quiz is attempted after completing the homework. Each quiz will be timed and must be completed within allotted time before the deadline which would be 11:59 p.m. Eastern on Wednesday the following week. All quiz scores shall count towards final grade. A missed quiz will result in a score of zero. Solutions will be made available within a couple of days past the deadline. Sample quiz may be posted on Canvas to help students practice and learn. Academic dishonesty will be dealt with very strictly under university policies.

EXAMS:
Exams are individual tasks. There will be three exams in all. Exam #1 will be a take home one based on Stats I review. Exam #1 will be assigned on Canvas (on 2/12) by 11:59 p.m. and you will be submitting your reports online just like what you do for the homework assignments before 11:59 p.m. the following Wednesday (i.e. 2/18). There will be another two exams to be held in class – Exam #2 (on 3/26) and Exam #3 (on 4/30). No make-up exams are given. You must make sure that you can attend the class for the Exam or be prepared to lose points. Exams will be open book type. You are allowed to bring-in calculators and laptops to perform calculations. While there will be certainly number crunching involved, it will be minimized as far as possible and will not be a major focus. The exams will test the student understanding for the application of the methods and interpretation of results. Problems on exams will be similar to HW problems. You would not need statistical packages for the exams. All exam scores shall count towards final grade. Sample Exam paper may be posted on Canvas to help students practice and learn. Academic dishonesty will be dealt with very strictly under university policies.

TUTORING SUPPORT:
Students are strongly encouraged to utilize tutoring help available to students.

1) Faculty Instructor will offer “Tutoring” support upon request outside of class time through prior appointment. If needed, additional group review sessions will be conducted.

2) In addition, Student Learning Support Services at USF Sarasota-Manatee also offers FREE TUTORING in Room B-222 for QMB 3200 - Business and Economic Statistics II and other courses through student tutors. Online (Skype) sessions, 1-on-1 sessions, and group sessions are conducted. Tutors at USFSM work closely with the instructor. Hence you are strongly encouraged to approach USFSM tutoring for help in this course. For further details click the following link: http://usfsm.edu/information-commons/tutoring/. For tutoring schedule click the following link: http://usfsm.edu/wp-content/uploads/2014/03/Spring-2015-Tutoring-Schedule.pdf

3) Tampa (http://lib.usf.edu/tutoring/appointments/) and St. Pete (http://www1.usfsp.edu/success/) campuses also offer tutoring support. However, the instructor is not knowledgeable of their extent of support for QMB 3200 students at USFSM.

It is important to note that tutoring services are offered to help student learning and not for solving homework assignments for students. Students have to do Homework on their own.
USFSM AND USF SYSTEM POLICIES

A. **Academic Dishonesty**: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the USFSM Catalog, the USF System Academic Integrity of Students, and the [USFSM Catalog](http://usfsm.edu/student-life/student-rights-and-responsibilities/)

B. **Academic Disruption**: The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Catalog, USF System Academic Integrity of Students, and the [USF System](http://usfsm.edu/student-life/student-rights-and-responsibilities/)

C. **Contingency Plans**: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Canvas site for each class for course specific communication, and the main USFSM and College websites, emails, and [MoBull](http://usfsm.edu/student-life/student-rights-and-responsibilities/) messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the [Campus Police Website](http://usfsm.edu/facilities/safetypreparedness/) for further information.

D. **Disabilities Accommodation**: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714 [http://usfsm.edu/disability-services/](http://usfsm.edu/disability-services/)

E. **Counseling and Wellness Center Services**

The Counseling and Wellness Center is a confidential resource where a student can talk about incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. Students can receive assistance in confidence. This confidential resource can help students without having to report their situation to either the Office of Student Rights and Responsibilities (OSRR) or the Office of Diversity, Inclusion, and the Equal Opportunity (DIEO), unless you request that they make a report.

Please be aware that educators must report incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. If a student discloses any of these situations to an instructor personally, he/she is required to report it to OSRR or DIEO for investigation. The Deputy Coordinator for USFSM is Mary Beth Wallace, AVP for Student Enrollment, Engagement and Success, 941-359-4330 or marybeth@sar.usf.edu.

Counseling and Wellness Center 941-487-4254

Victim Advocate (24/7) 941-504-8599

F. **Fire Alarm Instructions**: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See [http://usfsm.edu/facilities/safetypreparedness/](http://usfsm.edu/facilities/safetypreparedness/)

G. **Religious Observances**: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

H. **Web Portal Information**: Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address.
## COURSE SCHEDULE:

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<th>Week</th>
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| 1    | 1/8    | Topic: **Syllabus, Course Outline, and Introduction to Statistics**  
**Scheduled Event:** In-Class Mandatory Meeting  
**Learning Objective:**  
- Understand Course Overview, Objectives, Structure, and Grading Policy  
- Get a basic overview on Statistics  
- Learn the important role Statistics plays in Business Decision Making  
**Assignment:**  
- Read the Article: “The Business Case for Analytics”  
- Read McKinsey Report: “Big data: The next frontier for innovation, competition, and productivity”  
- Read Text Book Chapters: 2, 3, and 4 and Listen Lecture Recording (by 1/14) |
| 2    | 1/9    | Drop/Add class period ends |
| 1/15 | Topic: **Chapters 2, 3, and 4 – Descriptive Statistics and Probability**  
**Mandatory Task:**  
- Listen Lecture Recording: Review QMB 2100 – Chapters 2, 3, and 4 – Descriptive Statistics and Probability  
**Learning Objective:**  
- Understand populations and samples; parameters and statistics  
- Learn to calculate measures of central tendency and measures of dispersion  
- Learn to understand variables, statistical experiments, and random variables  
- Learn the basic concepts and importance of Probability  
**Assignment:**  
- HOMEWORK #1a and #1b are assigned (Reports due: 11:59 p.m. Wednesday, 1/21)  
- Read Text Book Chapters: 5 and 6 and Listen Lecture Recording (by 1/21) |
| 3    | 1/22   | Topic: **Chapters 5 and 6 – Discrete and Continuous Distributions**  
**Mandatory Task:**  
- Listen Lecture Recording: Review QMB 2100 – Chapters 5 and 6 – Discrete and Continuous Distributions  
**Learning Objective:**  
- Understand the concept of a random variable and a probability distribution  
- Learn various discrete probability distributions, learn when to apply a particular distribution, and calculate probabilities |
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<td>• Learn various continuous probability distributions, learn when to apply a particular distribution, and calculate probabilities</td>
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**Assignment:**

• HOMEWORK #2 is assigned (Report is due: 11:59 p.m. Wednesday, 1/28)

• Read Text Book Chapters: 7 and 8 and Listen Lecture Recording (by 1/28)

| 4    | 1/29 | Topic: Chapters 7 and 8 – Sampling Distributions, Point/Interval Estimation |

**Mandatory Task:**

• Listen Lecture Recording: Review – QMB 2100: Chapters 7 and 8 – Sampling Distributions and Point/Interval Estimation

**Learning Objective:**

• Understand the importance of Central Limit Theorem in Statistical Inference

• Develop point and interval estimates for a population parameter given the sample dataset from various business decision contexts

• Learn to interpret confidence interval estimates

**Assignment:**

• HOMEWORK #3 is assigned (Report is due: 11:59 p.m. Wednesday, 2/4)

• Read Text Book Chapters: 9, 10, and 11 and Listen Lecture Recording (by 2/4)

| 5    | 2/5  | Topic: Chapters 9, 10, and 11 – Statistical Inference and Hypothesis Testing |

**Mandatory Task:**

• Listen Lecture Recording: Review – QMB 2100: Chapters 9, 10, and 11 – Statistical Inference and Hypothesis Testing

**Learning Objective:**

• Understand and appreciate the importance of Hypothesis testing in Business Decision making

• Develop hypothesis from a problem statement

• Learn to choose an appropriate statistical technique to apply given the problem context,

• Learn to conduct hypothesis test, and most importantly, interpret the reports/results, and develop conclusions.

**Assignment:**

• HOMEWORK #4 is assigned (Report is due: 11:59 p.m. Wednesday, 2/11)

• QUIZ #1 (on QMB 2100 Review) is assigned (Due: 11:59 p.m. Wednesday, 2/11)

| 6    | 2/12 | Scheduled Event: |

• Tutoring/Review session for Exam #1 (In-Class Non-Mandatory session)

**Mandatory Task:**

• Exam #1 (Take Home) (on QMB 2100 Review of Chapters 5, 6, 7, 8, 9, 10, and 11) is assigned (Due: 11:59 p.m. Wednesday, 2/18)
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| 7    | 2/19   | **Topic:** Chapter 12 – Tests of Independence and Goodness of Fit  
**Mandatory Task:**  
- Listen Lecture Recording: Chapter 12 – Tests of Independence and Goodness of Fit  
**Learning Objective:**  
- Learn to develop Hypothesis Statements and perform hypotheses tests on categorical data using Chi-Square tests  
- Learn to conduct Goodness of Fit tests and interpret results  
- Learn to conduct Contingency Table test and interpret results  
**Assignment:**  
- HOMEWORK #5 is assigned (Report is due: 11:59 p.m. Wednesday, 2/25)  
- QUIZ #2 (on Chapter 12) is assigned (Due: 11:59 p.m. Wednesday, 2/25)  
- Read Text Book Chapter:13 and Listen Lecture Recording (by 2/25) |
| 8    | 2/26   | **Topic:** Chapter 13 – Experimental Design and Analysis of Variance  
**Mandatory Task:**  
- Listen Lecture Recording: Chapter 13 – Experimental Design and Analysis of Variance  
**Learning Objective:**  
- Identify an appropriate design to perform Analysis of Variance (ANOVA) given the problem statement, and learn to develop hypothesis statements  
- Appreciate the role of and learn to perform the Completely Randomized Design, Randomized Block Design, and Factorial Design based analysis using Excel; and conduct Fisher’s Least Significance Difference test  
- Understand and interpret ANOVA output; develop conclusions for the decision maker  
**Assignment:**  
- HOMEWORK #6 is assigned (Report is due: 11:59 p.m. Wednesday, 3/11)  
- QUIZ #3 (on Chapter 13) is assigned (Due: 11:59 p.m. Wednesday, 3/11)  
- Read Text Book Chapter:14 and Listen Lecture Recording (by 3/11) |
| 9    | 3/5    | Spring Break Week (No Class) |
| 10   | 3/12   | **Topic:** Chapter 14 – Simple Linear Regression  
**Mandatory Task:**  
- Listen Lecture Recording: Chapter 14 – Simple Linear Regression |
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|      |      | **Learning Objective:**  
|      |      | • Develop appreciation for the importance of Regression and Correlation  
|      |      | • Develop simple linear regression model for given data  
|      |      | • Test hypotheses about relationships between variables  
|      |      | • Understand and interpret the regression output from Excel and statistical software package like Minitab  
|      |      | • Extract useful information from regression report for business decision making  
|      |      | **Assignment:**  
|      |      | • HOMEWORK #7 is assigned (Report is due: 11:59 p.m. Wednesday, 3/18)  
|      |      | • QUIZ #4 (on Chapter 14) is assigned (Due: 11:59 p.m. Wednesday, 3/18)  
| 11   | 3/19 | **Scheduled Event:**  
|      |      | • Tutoring/Review session for Exam #2 (In-Class Non-Mandatory session)  
|      | 3/21 | **Last day to drop with a “W”; no refund & no academic penalty for Spring 2015**  
| 12   | 3/26 | **Scheduled Event:**  
|      |      | • Exam #2 (In-Class Mandatory Meeting) – (on Chapters 12, 13, and 14)  
|      |      | **Assignment:**  
|      |      | • Read Text Book Chapter:15 and Listen Lecture Recording (by 4/1)  
| 13   | 4/2  | **Topic: Chapter 15 – Multiple Regression**  
|      |      | **Mandatory Task:**  
|      |      | • Listen Lecture Recording: Chapter 15 – Multiple Regression  
|      |      | **Learning Objective:**  
|      |      | • Develop multiple regression model for given data  
|      |      | • Test hypotheses about relationships between variables  
|      |      | • Understand and interpret the regression output from Excel and statistical software package like Minitab  
|      |      | • Extract useful information from regression report for business decision making  
|      |      | • Learn how to deal with categorical independent variables in regression  
|      |      | **Assignment:**  
|      |      | • HOMEWORK #8 is assigned (Report is due: 11:59 p.m. Wednesday, 4/8)  
|      |      | • QUIZ #5 (on Chapter 15) is assigned (Due: 11:59 p.m. Wednesday, 4/8)  
|      |      | • Read Text Book Chapter:17 and Listen Lecture Recording (by 4/8)  
| 14   | 4/9  | **Topic: Chapter 17 – Time Series Analysis and Forecasting**  

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<td><strong>Mandatory Task:</strong></td>
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<td>• Listen Lecture Recording: Chapter 17 – Time Series Analysis and Forecasting</td>
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<td><strong>Learning Objective:</strong></td>
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<td>• Develop an understanding for patterns in Time Series data</td>
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<td>• Learn to select an appropriate forecasting technique given the time series pattern</td>
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<td>• Learn to develop forecasts using techniques like Naïve, Moving Averages, Exponential Smoothing, and Regression methods</td>
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<td>• Understand the role of Forecast Accuracy Measures, and to select a best method for forecasting for a given problem</td>
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<td>• QUIZ #6 (on Chapter 17) is assigned <em>(Due: 11:59 p.m. Wednesday, 4/15)</em></td>
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<td>• Read Text Book Chapter:18 and Listen Lecture Recording <em>(by 4/15)</em></td>
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<td><strong>Topic:</strong> Chapter 18 – Nonparametric Methods</td>
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<td>• Develop hypothesis from a problem statement</td>
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<td>• Learn to conduct Sign test, Wilcoxon Signed Rank test, and Mann-Whitney-Wilcoxon test</td>
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<td>• Interpret the reports/results, and generate conclusions for the decision maker</td>
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<td><strong>Assignment:</strong></td>
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<td>• HOMEWORK #10 is assigned <em>(Report is due: 11:59 p.m. Wednesday, 4/22)</em></td>
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<td>16</td>
<td>4/23</td>
<td><strong>Scheduled Event:</strong></td>
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<td></td>
<td>• Tutoring/Review session for Exam #3 <em>(In-Class Non-Mandatory session)</em></td>
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<tr>
<td>17</td>
<td>4/30</td>
<td><strong>Scheduled Event:</strong></td>
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<td>• Exam #3 <em>(In-Class Mandatory Meeting)</em> – (on Chapters 15, 17, and 18)</td>
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