



**Marketing and Management Department**  
**QMB 3301, Section 007, 3 Credits, CRN 11890**  
**Quantitative Methods in Business 3301**

**Syllabus FALL 2016 Method of Instruction: *Classroom Lecture***

Instructor: Joaquin Tadeo, M.B.A.

Office: COBA 332

Class Hours: MW 06-7:20 p.m.

Classroom: COBA 332

Office Hours: 7:20-8:20 p.m.  
(In classroom)

Phone: 915-747-5185 (leave message)  
Email: jtadeo@utep.edu

**COURSE DESCRIPTION:**

Quantitative Methods in Business, An introduction to quantitative methods applied to business decision making. These methods include linear, integer, and goal programming, network analysis, and transportation linear programming. A major effort is devoted to computerized solution techniques to provide managerial information. Restricted to majors: ACCT, BSAD, CIS, ECON, FIN, MGMT, and and MKT.

**PREREQUISITE:** (Course or Test: [QMB 2301](#) Minimum Grade of C May not be taken concurrently. )  
**or** (Course or Test: [STAT 3201](#) Minimum Grade of C  
May not be taken concurrently. )

**TEXTBOOK REQUIRED:** Anderson, Sweeney, Williams, An Introduction to Management Science 14<sup>th</sup> Edition, 2013. Scantron required for exams.

**RECOMMENDED:** clear plastic ruler, colored pencils, graph paper.

**TEACHING PHILOSOPHY:** Students will learn QMB 3301 in this course. Additionally, students will learn to become Professionals through the disciplines of the course. Having over twenty years of industry experience, I will share the skills I believe necessary to succeed in today's global environment. These lessons should assist a student making the transition to their professional careers upon graduation.

**NOTICE TO STUDENTS:** Materials used in connection with this course may be subject to copyright protection. Therefore, copies of the textbook are not allowed in the classroom. Any copies will be confiscated and destroyed.

**OBJECTIVES** The business world has become extremely competitive, minute differences in costs, scheduling, or quality can result in corporate success or failure. A strong foundation in quantitative methods is essential in the identification of productive courses of action. This course provides an introduction to linear programming as applied to business. Included are: problem solving and decision making; graphical solutions for maximization and minimization problems; sensitivity analysis and interpretation of computerized solutions; development of linear models; integer linear programming; shortest-route problems; single and multiple-channel waiting line methods; and forecasting.

**EXPECTATIONS**

Every student must be prepared for class by completing the assigned homework and reviewing their notes.

I may have to be absent twice during the semester for a conference. If this becomes reality, we will choose two nights where we will continue class until 8:50 p.m. for accreditation contact hour requirements. For those that have a class following mine, I will choose time periods where the material is simply in class exercises and no new material.

## ATTENDANCE

Will not be taken. However, exams are based primarily on lecture materials. If I cover the topic in class, if it is assigned in homework, or is theory in the textbook, it will show on the exam. There are no surprises on the exam if you prepare and put in sufficient time.

## CLASSROOM BUDDIES:

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## ACADEMIC DISHONESTY

You are expected to do your own work both inside and outside the classroom. Copying an assignment from someone else will result in, if detected, zero points for all persons involved. Evidence of cheating on an examination will be forwarded to the Dean of Students with a recommendation for suspension from the university.

## CLASSROOM MANAGEMENT (COURSE RULES/EXPECTATIONS)

1. Cellular telephones, pagers, and other devices are not allowed on in the classroom.
2. Constant tardiness is distracting. Students arriving late will not be allowed to take a quiz if being conducted.
3. Quizzes will be given from time to time—with or without prior notice. *There will be no make-up of missed quizzes.*
4. Side conversations with classmates during lecture.
5. Clarifying questions pertaining to the lecture asked of classmates and not the professor.
6. Bathrooms are to be used before class or during the in-class exercises and not during the professor's lecture.
7. Do not use red ink for any assignment unless it is your objective function line.
8. Feel free to eat or drink (non-alcoholic) during class but please clean up your area and **throw away your trash before leaving.**
9. Please keep in mind that there may be times when racial/gender/sexual orientation stereotypes, profanity, drug use and/or sexual content may be subjects of lecture content or class discussion; as adults and students, we need to study these in their context and work to understand the underlying meaning of these messages. I expect students to be respectful of any and all ideas, beliefs, and viewpoints expressed here. This course presents us with a opportunity to explore our differences, including the assumptions from which our views originate, the reasons we feel impassioned about certain issues, the ways personal experience affect values and beliefs and the challenges education poses to us to move beyond our immediate situations and world views.
10. Research states students daydream every 12 minutes during lecture. Therefore, I tend to ask a question, tell a personal story, etc. every 12 minutes to bring the students' attention back to lecture.

**EXAMS** You are expected to take examinations as scheduled. No programmable calculators are to be used during any exam. A valid I.D. will be required for the first exam. Exams will be from 6-7:20 p.m. Upon completion of the scheduled exam at 7:20 p.m., students will be asked to put their pencils down. Any student not complying will receive a zero for the exam. All answers must be transferred to the Scantron and to the answer sheet before 7:20 p.m. Any answers not transferred will not receive credit regardless if answered on the exam. All work must be shown to receive credit. Calculators will not be allowed on the first or second examination. Students will be required to sign an attendance rooster upon completing each exam.

**PREVENTION OF CHEATING:** In support of Academic Integrity, I will take steps to prevent cheating on exams and assignments. Actions taken prior to the exam and not limited to: checking calculators for notes; asking students to switch seats; placing backpacks along the walls of the classroom; having a seat in between students; having multiple versions of the exams; checking Scantrons or replacing them; requiring students to present a valid UTEP i.d., driver's license issued by any state in the United States, or U.S. military i.d.; no notes will be allowed to be used on the exams; no programmable calculators; and students will be required to sign an attendance sheet.

**NO MAKE-UP EXAMINATIONS WILL BE GIVEN.**

**MERCY GRADES** If you are graduating this semester or this is the third time you take the course, it is imperative you earn a passing grade. Do not expect me to pass you based on requesting a mercy grade.

**CLASSROOM ISSUES:** For discussion of any positive or negative issues with the course, please address them with me during office hours. If the matter is not resolved, you may contact: Dr. John Hadjimarcou, Department Chair, Marketing and Management Department, COBA 230, 915-747-5185.

**SPECIAL ACCOMMODATIONS** Should you have a documented disability and require any auxiliary aids, services, or accommodations, please see me after class or call me in order to discuss your specific needs. If you feel you may have a disability but do not have appropriate documentation, contact the Disabled Student Services Office at 747-5148, go to Room 106E Union, or e-mail: [dss@utep.edu](mailto:dss@utep.edu).

**GRADING** Your final grading will be determined as follows:

|                      | <u>Overall Mean</u> | <u>Grade</u> |
|----------------------|---------------------|--------------|
| Exam #1 (150 Points) | Above 90%           | A            |
| Exam #2 (150 Points) | 80 -89.99%          | B            |
| Exam #3 (150 Points) | 70 -79.99%          | C            |
| Quizzes (100 Points) | 60 -69.99%          | D            |
| Total 500 Points     | Below 60%           | F            |

You are able to earn 50 points of extra credit by successfully completing all quizzes. This constitutes a ten percent grade curve you may earn. The quizzes may be theoretical over the chapter we have covered or are covering or homework that has been assigned. One homework problem may be chosen for submission of grading. Therefore, you must have your assigned homework upon entering the classroom. I left it in my car or at home or any other excuse will not receive credit for the quiz. Any quizzes remaining at the end of the semester will be assigned as questions/problems on the final exam. For example, if we only complete 7 quizzes, additional problems worth 30 points will be added to the final exam.

**HOMEWORK** Homework assignments (based on problems in the textbook) are not to be submitted. However, the quizzes will be a homework problem randomly selected at the beginning of class. You must have your homework at the time of the quiz. I left it in my car, at home, etc. are not reasons for not having your homework at the time of the quiz.

**HOMEWORK LAB** I will have a homework lab for an hour immediately following the end of class. Although it is not mandatory, one of the reasons students fail this course is not completing the assignments. Therefore, it is highly recommended students remain for the extra hour if possible.

**COURSE DROP POLICY** *The last day to drop the course with an automatic "W" is OCT 28, 2016. After this deadline, students have a grade posting of "F". A grade of "W" can be assigned after the deadline only under exceptional circumstances, and only with the approval of the instructor and the academic dean. In such a case, the student must petition for the "W" in writing and provide the necessary supporting documentation.*

## SCHOLASTIC DISHONESTY

**"The University of Texas at El Paso prides itself on its standards of academic excellence. In all matters of intellectual pursuit, UTEP faculty and students must strive to achieve based on the quality of work produced by the individual. In the classroom and in all other academic activities, students are expected to uphold the highest standards of academic integrity. Any form of scholastic dishonesty is an affront to the pursuit of knowledge and jeopardizes the quality of the degree awarded to all graduates of UTEP."**

**"Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures (HOP) and available in the Office of the Dean of Students, may result in sanctions ranging from disciplinary probation, to failing grades on the work in question, to failing grades in the course, to suspension or dismissal, among others."**

FALL 2016

### QMB 3301 TENTATIVE CLASS SCHEDULE

THE PROFESSOR RESERVES THE RIGHT TO MODIFY THE SCHEDULE

|         |        |  |
|---------|--------|--|
| WEEK 1  | AUG 22 | Introduction, Syllabus   |
|         | AUG 24 | Chapter 2—An Introduction to Linear Programming  |
| WEEK 2  | SEP 05 | SEP 05—LABOR DAY HOLIDAY—NO CLASSES  |
|         | SEP 07 | Chapter 2— Continued   |
| WEEK 3  | SEP 12 | Chapter 2— Continued   |
| WEEK 4  | SEP 19 | Chapter 3—Linear Programming, Sensitivity Analysis and<br>Interpretation of Solutions      |
| WEEK 5  | SEP 26 | Chapter 3—continued  |
| WEEK 6  | OCT 03 | <b>OCT 03--Exam 1—Chapter 1-3</b><br>Chapter 4—Linear Programming Model Formulation        |
| WEEK 7  | OCT 10 | Chapter 4—Continued  |
| WEEK 8  | OCT 17 | Chapter 6—Distribution and Network Models  |
| WEEK 9  | OCT 24 | Chapter 6—Transportation and Transshipment Problems  |
| WEEK 10 | OCT 31 | Chapter 6—Transportation and Assignment Models<br><i>OCT 28--Last day to drop with a W</i> |
| WEEK 11 | NOV 07 | Chapter 6— Shortest Route & Minimal Spanning Tree  |
| WEEK 12 | NOV 14 | <b>NOV 14—Exam 2—Chapters 4 &amp; 6</b><br>Chapter 11—Waiting Line Models: Single Channel  |
| WEEK 13 | NOV 21 | Chapter 11—continued   |
| WEEK 14 | NOV 23 | Chapter 11—continued<br>Chapter 15—Time Series Analysis and Forecasting                    |
| WEEK 15 | DEC 01 | Chapter 15—continued<br>Chapter 15—continued   |
|         | DEC 02 | DEAD DAY   |
| WEEK 16 | DEC 05 | <b>DEC 05—FINAL EXAM—7-9:45 p.m. OR TBA</b>  |
|         | DEC 10 | <b>FALL COMMENCEMENT</b>   |
|         | DEC 22 | <b>FINAL GRADES AVAILABLE VIA GOLDMINE</b>   |



