

QMB 3200
Quantitative Methods for business Decisions

First Day Handout

Spring Term
January 7, 2010 – May 4, 2010

INSTRUCTOR INFORMATION:

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Students: Please put course title in the subject line of any emails sent to the instructor.

PREREQUISITES:

QMB 2100 or STA 2023 or equivalent.

ENTRANCE COMPETENCIES:

The student must possess the knowledge and skills of an AA business student and the capability to perform at a baccalaureate level. The student should also possess the computer skills required to navigate web sites, use Excel to do basic spreadsheet operations and construct documents using Word.

CATALOG DESCRIPTION:

This course deals with business decision making. Effective decision making is vital to every basic function of a business firm and to its overall success. Business decision making is viewed as a process which involves the identification and formulation of a business problem, development of alternatives for solving the problem, and selection of the best alternative and specific course of action.

COURSE OBJECTIVES/STUDENT LEARNING OUTCOMES:

The major objectives of the course are for the student to develop an understanding of the decision making process and its application to business problems generally, and to appreciate the role of analytical methods and computer technology in finding solutions to business decision problems.

MAJOR LEARNING OUTCOMES

Upon completion of the Quantitative Methods for Business Decisions course, BAS students should be prepared to:

1. Understand the nature, structure, and characteristics of various formulations of common business decision problems.
2. Apply various models and techniques to analyze business decision problems and alternative solutions to these decision problems.
3. Interpret the results of the analysis and choose the best solution(s) to these decision problems.
4. Use calculator and/or computer-based models and techniques to formulate and solve various common business decision problems.

PURPOSE

To provide a framework to solve business problems, interpret data, and to understand the interaction between the information that is gleaned from data and the resulting business decisions.

TEXTBOOK(S) AND/OR OTHER MATERIALS NEEDED:

Weiers, Ronald M. Introduction to Business Statistics (6th ed.). Mason, OH, Thomson South-Western.

South-Western/Cengage, ISBN Bundle: 0324557922. It includes the following two items:

Introduction to Business Statistics (with Student CD-ROM), 6th Edition, 2008, Weiers, Thomson South-Western.

****Access code for Cengage Now**

Other purchasing options:

Printed access code which would include the eBook - ISBN: 0324653018.

Other Material

Your text should include information telling you where you will find data from many of the cases in the text already in MS Excel format. Bundled with your text are additional important components:

- 1) You will have access to downloadable PowerPoint Slides.
- 2) Data Analysis Plus
- 3) E-Lectures with sound and animation
- 4) Applets to demonstrate selected statistical topics

RESEARCH COMPONENT: A final statistical project is required in this course.

DISTANCE LEARNING COURSES AT CHIPOLA COLLEGE:

All Distance Learning courses at Chipola utilize the d2l Learning Management System.

CHIPOLA EMAIL:

All Students

From time to time I will use the e-mail address that is provided to you through d2l to communicate course and schedule information and changes. You should check your Chipola e-mail account daily for information regarding this and other courses that you are taking.

COURSE REQUIREMENTS:

- *Upon Enrollment: Check to assure that the e-mail address in d2l is your current e-mail address. Post introductory biography (including a picture) to relevant forum in Discussion Board.*
- *Quizzes: You should take the quizzes for related chapters of this course. The quizzes can be accessed through Cengage Now. You will need to use the access code which you purchased with your textbook for this.*
- *Assignments: You are required to submit solutions to assignments. These assignments can be submitted via d2l or handed to the professor on the due date.*
- *Required Examinations: There will be four examinations, plus the final. Each exam will contain a comprehensive component. E VERYONE MUST TAKE THE FINAL. The grade on the final **will be substituted** for the lowest grade made on the other four exams.*
- *Research Paper: One final research assignment is addressed elsewhere in this document. This report will be built throughout the course.*

ATTENDANCE POLICY:

Class attendance is required. If the number of absences exceeds 5, a grade of F will be assigned for the course unless there is convincing evidence that these absences are beyond the control of the student. At best, failure to attend class will adversely affect your Participation grade.

MAKE-UP WORK POLICY:

Missed assignments may not be made up for credit. A grade of 0 will be assigned. The low assignment grade will be dropped in any case. If a student misses the final exam, a grade of I will be assigned and a comprehensive final will be given no later than the first week of classes of the following term.

INCOMPLETE GRADE POLICY:

Missing any part of the Course Schedule may prevent completion of the course. If circumstances will prevent the student from completing the course by the end of the term, the student should complete a request for an incomplete grade.

Note: A grade of incomplete or "I" is not automatically assigned to students, but rather must be requested by the student by submitting a *Petition for and Work to Remove an Incomplete Grade* Form. Requests for an incomplete grade must be made on or before the date of the final assignment or test of the term. A grade of "I" does not replace an "F" and will not be awarded for excessive absences. An "I" will only be awarded to students presenting a valid case for the inability to complete coursework by the conclusion of the term. No grade of "I" will be awarded unless the student has made a successful attempt on at least 80% of the course. *It is ultimately the instructor's decision to grant or deny a request for an incomplete grade, subject to the policy rules below.*

Policy/Rules for granting an Incomplete (I):

- An incomplete cannot be issued without a request from the student.
- To qualify for an incomplete, the student **must**:
 - a. have completed over 80% of the course material and have a documented reason for requesting the incomplete. (80% means all exams, quizzes and/or assignments.)
 - b. be passing the course at the time of their request.

If both of the above criteria are not met an incomplete cannot be granted.

- **An I is not a substitute for an F. If a student has earned an “F” by not submitting all the work or by receiving an overall F average, then the F stands.**

METHOD OF INSTRUCTION:

While this class is being taught as a “live” class, there will be some elements that utilize d2l. This is ***NOT*** a distance learning class. It is ***not*** a “correspondence course” in which students may work at his or her own pace. Each week there will at least be assignments, on-line discussions, or exams or all three with due dates. Refer to the schedule at the end of this syllabus for more information.

METHOD OF EVALUATION:

Exam 1	15%
Exam 2	15%
Exam 3	15%
Exam 4	15%
Final Exam*	15%
Assignments (including research components)	15%
Quizzes	15%
Participation**	5% - 10% (Could Replace an Exam)

*** The final exam is comprehensive and is required of everyone and will be used to replace the lowest grade on exams 1 – 4.**

*Participation is more than registering for the course. The participation grade is subjective (to a degree) reflecting my perception of the degree of your involvement in this course. **Communication with the instructor** and other students is the most important component of this grade. Contributions to the topic being covered through participation in the online Discussion Board are ways to demonstrate participation.

ASSIGNMENT OF GRADES:

All grades will be posted in the student grade book in d2l and will be assigned according to the following or similar scale:

A	93 – 100%
B	83 – 92%
C	70 – 82%
D	60 – 69%
F	59% and below

Grade Requirements

Average	Grade	Requirements
93 – 100	A	An understanding of the concepts, calculations and application of the concepts covered in the course. Must be able to extend applications beyond those presented in course material. Must demonstrate the ability to write/speak at the baccalaureate level with correct grammar and punctuation and original thoughts.
83 – 92	B	An understanding of many of the concepts, calculations, and applications with some extension beyond examples presented in course material. Must demonstrate the ability to write/speak at the baccalaureate level with correct grammar and punctuation and original thoughts.
70 - 82	C	An understanding of some of the concepts, calculations, and applications with some extension beyond examples presented in course material. Failure to demonstrate the ability to write/speak at the baccalaureate level or express original thoughts. Grammar and punctuation are poor.
60 – 70	D	An understanding of some of the concepts, calculations, and applications with no extension beyond examples presented in course material. Failure to demonstrate the ability to write/speak at the baccalaureate level or express original thoughts. Grammar and punctuation is poor.
<60	F	Exhibit little or no understanding and minimal ability to apply concepts in class or extend beyond course material. Failure to demonstrate the ability to write/speak at the baccalaureate level or express original thoughts. Grammar and punctuation are poor.

The above weights and grade assignment rules are subject to change, at the sole discretion of the instructor. However, changes will be made only to benefit the students.

Postings: [I will post grades in D2L, in the Gradebook.](#)

SUBMITTING ASSIGNMENTS:

- *Assignments will be submitted through the Drop Box or in class only. I don't accept e-mail attachments due to the threat of viruses.*
- *If you send your assignment through the Drop Box, your file name should consist of the Assignment name followed by your last name and first name, separated by”_”. Example: Assignment_1_Gilbert_Adair*

EXAMINATION SCHEDULE & INSTRUCTIONS:

- See schedule at the end of this syllabus for examination dates.
- The exam questions will have varying formats.
- See the Course Schedule in the back of this syllabus for the dates during which time the exams will be available.
- The exams will be proctored and timed. Points will be deducted if the student overruns the time limit for the exam. I will schedule the computer lab in M 201 or M 203 if needed for the each exam.

TECHNOLOGY REQUIREMENTS:

Students should have or have access to:

- An e-mail account that you can access on a regular basis. One is available through D2L.
- E-mail software capable of sending and receiving attached files.
- Access to the Internet with a 56.9 kb modem or better.
- A personal computer capable of running Netscape Navigator 7.0 or above, Internet Explorer 6.0 or above, or current versions of Firefox or Mozilla.
- Microsoft WORD software. (I cannot grade anything I cannot open! This means NO MS-Works, NO Wordpad, NO Wordperfect)
- Virus protection software, installed and active, to prevent the spread of viruses via the Internet and email. It should be continually updated!
- Microsoft Excel
- Adobe Acrobat Reader (latest version).
- Students should have a calculator capable of performing basic arithmetic and/or statistical operations including reciprocals and square roots along with the functions $\log x$, $\ln x$, y^x , e^x , $n!$, ${}_nP_r$, and ${}_nC_r$ etc. Many students are accustomed to the TI 83+ Calculator. Many problems can be solved using this calculator but a number of problems will require the knowledge and use of Excel to complete. Those problems have accompanying data sets found on the Student CD that is included with the textbook.

Internet Access:

- Students should have access to a working computer and access to the internet. Students can use a Chipola computer lab, Chipola library, etc., to insure they have access.
- “Not having a computer” or “computer crashes” are not acceptable excuses for late work.

TECHNICAL SUPPORT INFORMATION:

If you experience technical problems, you should contact the D2L Support Center. You can do this in two ways. First if you can log onto the course simply look at the tabs at the top of the page. You will see one entitled, “Tech Support.” If you click on this tab, you will see the information below. You can click on the “D2L Support Center” link and receive assistance. If you cannot log onto the course, simply contact the center by calling toll free the number listed below. Assistance is available 24 hours a day/7 days per week.

D2L Support Center

For assistance if you are having problems with D2L, please contact the help desk at Chipola at **1-850-718-4357 for live assistance.**

Or, you may contact the help desk at the following e-mail address.

D2L Help Desk: helpdesk@chipola.edu

Also, there is a link to the help desk in D2L. Just look at the opening screen of D2L at the upper right hand corner and you will find the link.

NON-HARASSMENT, HOSTILE WORK/CLASS ENVIRONMENT:

Chipola College expects students to treat fellow students, their instructors, other Chipola faculty, and staff as adults and with respect. No form of “hostile environment” or “harassment” will be tolerated by any student or employee.

AMERICANS WITH DISABILITY ACT (ADA):

Students with disabilities are requested to voluntarily contact Ms. Gayle Duncan in the Office of Students with Disabilities, which is located in A106, to complete the intake process and determine their eligibility for reasonable accommodations. Any student whose disabilities fall within ADA guidelines must inform me at the beginning of the term of any special needs or equipment necessary to accomplish the requirements for this course. Students must also provide written proof of their disability to the instructor.

HONESTY AND PLAGIARISM:

The awarding of a college degree attests that an individual has demonstrated mastery of a significant body of knowledge and skills of substantive value to society. Any type of dishonesty in securing those credentials therefore invites serious sanctions, up to and including suspension and expulsion (see Academic Honor Code in the Handbook). Examples of dishonesty include actual or attempted cheating, plagiarism*, or knowingly furnishing false information to any college/university employee.

*Plagiarism is defined as submitting anything for credit in one course that has already been submitted for credit in another course, or copying any part of someone else’s intellectual work – their ideas and/or words – published or unpublished, including that of other students, and portraying it as one’s own. Proper quoting, using strict APA formatting, is required, as described by the instructor.

- Students must properly cite any quoted material. A term paper, business plan, term project, case analysis, or assignment may have **no more than 20% of its content quoted** from another source.
- I intend to utilize **plagiarism-detection software**, through which *all* written student assignments are/may be processed for comparison with material published in traditional sources (books, journals, magazines), on the internet (to include essays for sale), and papers turned in by students in the same *and other* classes in this *and all previous terms*. The penalty for plagiarism may range from zero credit on the assignment, to zero in the course, to expulsion from the university with appropriate notation in the student’s permanent file.

LIBRARY SUPPORT:

The library here at Chipola provides access to materials and services that support the academic programs. You are encouraged to utilize the resources in the library to complete assignments and for study purposes.

FACULTY EVALUATION:

Sometime during the term, students will be required to fill out a course evaluation form. These evaluations are completely anonymous but are used to help improve delivery of the course materials.

HOW TO LEARN ONLINE:

In order to be successful, you should be organized and well motivated. You should make sure you log in to our course on D2L several times each week. Check all “announcements” that have been posted. Start early in the week to complete the weekly assignment. You should also go to the Discussion Board early in the week and view the topic and question/s for the discussion exercise. Make your “initial” posting and participate in the discussion. Begin reviewing for the exams early in the term. Do not wait until the last minute and “cram” for these exams. You should review the material frequently, so you will be prepared to take the exams.

COURSE SCHEDULE: QMB 3200

Dates	Notation or Assignment
January 7	Course Overview
January 12	Take learning inventory assessment at How to Learn.com Review Chapters 1 - 9. Review using eLectures m01 – m11 View e Lecture/PowerPoint slides for Chapters 1 - 9 . Data Analysis Plus and any other required software on your primary computer. Address the Discussion question(s) for this period (by 01/14/10). Assignment 1 TBA
January 14	Take learning inventory assessment at How to Learn.com Review Chapters 1 - 9. Review using eLectures m01 – m11 View e Lecture/PowerPoint slides for Chapters 1 - 9. Data Analysis Plus and any other required software on your primary computer. Address the Discussion question(s) for this period (by 01/14/10). Assignment 2 TBA
January 19	Complete Assignments 1 & 2 by (01/20/10). Complete Review of Chapters 1 – 9. Quizzes on Cengage Now Read Chapter 10. Complete Chapter 10 Quizzes in Cengage Now (by 01/22/10). View e Lecture m12 – m13/PowerPoint slides for Chapters 11. Address the Discussion Board question(s) for this period (by 01/22/10).
January 21	Complete Chapter 10 Quizzes in Cengage Now (by 01/22/10). View e Lecture m12 – m13/PowerPoint slides for Chapters 10. Address the Discussion Board question(s) for this period (by 01/22/10). Assignment 3 TBA?
January 26	Complete Assignment 3 (by 01/26/10). Complete Chapter 10. Address the Discussion Board question(s) for this period (by 01/26/10). Review for Exam I covering Chapters 1 - 10. Assignment 4 TBA?
* January 28	Exam I Chapters 8 - 10
February 2	Complete Assignment 4 by (02/02/10). Read Chapter 20 View e-Lecture m02, m28/PowerPoint slides for Chapter 20. Complete Chapter 20 Quiz in Cengage Now by (02/04/10). Address the Discussion Board question(s) for this period (by 02/04/10) Assignment 5 TBA?
February 4	Complete Assignment 5 by (02/09/10). Read Chapter 20 View e-Lecture m02, m28/PowerPoint slides for Chapter 20. Complete Chapter 20 Quiz in Cengage Now by (02/04/10). Address the Discussion Board question(s) for this period (by 02/11/10)

February 9	<p>Complete Assignment 5 by (02/09/10). Read Chapter 11.1 – 11.3 View e-Lecture m14-m15/PowerPoint slides for Chapter 11. Address the Discussion Board question(s) for this period (by 02/16/10)</p>
February 11	<p>Read Chapter 11.4 – 11.5 View e-Lecture m14-m15/PowerPoint slides for Chapter 11. Address the Discussion Board question(s) for this period (by 02/16/10) Assignment 6 TBA?</p>
February 16	<p>Read Chapter 11.6 View e-Lecture m16/PowerPoint slides for Chapter 11. Complete Chapter 11 Quiz in Cengage Now by (02/18/10). Address the Discussion Board question(s) for this period (by 02/18/10)</p>
February 18	<p>Read Chapter 11 Complete Assignment 6 (by 02/19/10) Review e-Lecture m14-m16/PowerPoint slides for Chapter 11. Complete Chapter 11 Quiz in Cengage Now by (02/18/10). Address the Discussion Board question(s) for this period (by 02/18/10) Assignment 7 TBA?</p>
February 23	<p>Read Chapter 12.1 – 12.2 View e-Lecture m18/PowerPoint slides for Chapter 12 One-way ANOVA & Randomized Block. Complete Assignment 7 (by 03/09/10) Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 02/12/09).</p>
February 25	<p>Read Chapter 12.1 – 12.2 View e-Lecture m18/PowerPoint slides for Chapter 12 One-way ANOVA & Randomized Block. Complete Assignment 7 (by 03/09/10) Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 02/12/09). Assignment 8 TBA?</p>
March 2	<p>Read Chapter 12.2 – 12.3 View e-Lecture m19/PowerPoint slides for Chapter 12 Randomized Block & Two-way ANOVA. Complete Assignment 8 (by 03/10/10) Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 02/12/09).</p>
March 4	<p>Read Chapter 12.2 – 12.3 View e-Lecture m19/PowerPoint slides for Chapter 12 Randomized Block & Two-way ANOVA. Complete Assignment 8 (by 03/10/10) Complete Chapter 12 Quiz in Cengage Now (by 03/08/10). Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 03/11/10). Assignment 9 TBA?</p>
* March 9	Exam II Chapters 11, 20, 12.1-12.3
March 11	<p>Read Chapter 13.1 – 13.2 View e-Lecture m17/PowerPoint slides for Chapter 13 Goodness of Fit. Complete Assignment 9 (by 03/10/10) Complete Chapter 13 Quiz in Cengage Now (by 03/16/10). Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 03/16/10).</p>
March 16	<p>Read Chapter 13.3 – 13.6 View e-Lecture m17/PowerPoint slides for Chapter 13 Chi-square tests. Complete Assignment 9 (by 03/10/10) Complete Chapter 13 Quiz in Cengage Now (by 03/16/10). Attend at least one session in the Virtual Classroom. Address the Discussion Board question(s) for this period (by 03/16/10). Assignment 10 TBA?</p>

March 18	Read Chapter 15.1 – 15.3 & 16.1 View e-Lecturer m20/PowerPoint slides for Chapter 15. Complete the Chapter 15 Quiz in Cengage Now (by 03/24/10). Address the Discussion Board question(s) for this period (by 03/25/10). Assignment 11 TBA?
March 23	Continue Chapter 15.4 – 15.7 View e-Lecturer m21/PowerPoint slides for Chapter 15. Complete the Chapter 15 Quiz in Cengage Now (by 03/24/10). Address the Discussion Board question(s) for this period (by 03/26/10). Complete Assignment 10 (by 04/23/10).
* March 25	Exam III Chapters 13 & 15 Complete Assignment 11 (by 04/07/10).
Mar. 29 – Apr. 4	Spring Break
April 6	Read Chapter 16 View e-Lecture m22/PowerPoint slides for Chapter 16. Complete the Chapter 16 Quiz in Cengage Now (by 04/24/10). Address the Discussion Board question(s) for this period (by 03/26/10). Assignment 12 TBA?
April 8	Continue Chapter 16 Address the Discussion Board question(s) for this period (by 04/09/10). Complete Assignment 12 (by 04/14/10).
April 13	Continue Chapter 16 Address the Discussion Board question(s) for this period (by 04/09/10). Complete Assignment 12 (by 04/14/10).
April 15	Read Chapter 17.1 – 17.4 View PowerPoint slides for Chapter 17. Complete the Chapter 17 Quiz in Cengage Now (by 04/26/10). Address the Discussion Board question(s) for this period (by 04/16/09). Assignment 13 TBA?
April 20	Read Chapter 17.5 – 17.6 View PowerPoint slides for Chapter 17. Complete the Chapter 17 Quiz in Cengage Now (by 04/26/10). Address the Discussion Board question(s) for this period (by 04/16/09). Complete Assignment 13 (by 04/28/10).
April 23	Read Chapter 17.7 – 17.9 View PowerPoint slides for Chapter 17. Complete the Chapter 17 Quiz in Cengage Now (by 04/26/10). Address the Discussion Board question(s) for this period (by 04/16/10). Complete Assignment 13 (by 04/28/10).
* April 27	Exam IV Chapters 16, 17
April 29	Review of Course for Final
** May 4	Final Exam

The above schedule is subject to modifications during the term.