

**INFORMATION ANALYSIS
MBA 615 N**

**Dr. Rahmat Tavallali
108 BBCC**

Office Hours:

Session II, Spring 2007

Monday, Wednesday, and Friday: 9:20 – 10:20 a.m.
Tuesday and Thursday: 11:15 – 12:15 p.m.
Wednesday and Thursday: 5:00 – 6:00 p.m.

Phone: 330/490-7037
e-mail: rtavallali@walsh.edu

I. COURSE DESCRIPTION:

This skill course focuses on developing management information systems and information analysis techniques. It also utilizes statistical tools to evaluate data and to reach inferential or probabilistic solutions.

II. COURSE OBJECTIVES:

At the completion of this course, the student will be able to:

1. identify descriptive statistics
2. discuss the phases of statistical decision-making process.
3. explore the characteristics and applications of probability concepts.
4. construct mathematical and statistical models for managerial decisions.
5. distinguish between Distribution Free, Analysis of Variances, and Chi-Square analysis.
6. analyze data by the contribution approach to support a decision for accepting or rejecting a hypothesis.
7. explore the characteristics and applications of normal distribution.
8. analyze a simple linear and multiple regression models and model assumptions.
9. discuss and analyze Nonparametric methods.

III. INSTRUCTIONAL METHODS:

This is a skill course which applies quantitative techniques to business decision making. Students are expected to develop the ability to formulate, build, and solve statistical applications and models. The emphasis of this course is on using statistical methods in solving business problems. It is strongly suggested that students regularly work at least the assigned homework problems. Homework problems need not be turned in, but as in any quantitative class, practice makes perfect. Work as many

problems as you can before attending the class. Answers to even problem numbers are in the back of your textbook. This course moves very rapidly. It does not have a reputation of being easy. You must practice a great deal of discipline in sticking to the schedule and keeping up with the material. Contact me at any time. I promise you it will get better.

IV. COURSE OUTCOMES:

This course will focus on developing management information techniques and analysis. These techniques require understanding of quantitative methods in order to formulate, build, and solve management decision models. Therefore, students are expected to demonstrate competency in the following methods and techniques:

- Central Tendency
- Dispersion and Scanners
- Probability Distributions
- Sampling distributions
- Test of Hypotheses
- Analysis of Variance (ANOVA)
- Chi-Square
- Simple Linear and Multiple Regressions
- Nonparametric Methods

V. MATERIALS OF INSTRUCTION:

Modern Business Statistics with Microsoft Excel by David Anderson, Dennis Sweeney, and Thomas Williams, 2nd Edition, South-western Publishing Co./ Thomas Learning, Cincinnati, Ohio, 2006.

VI. COURSE REQUIREMENTS:

Students will be evaluated based on two tests, a comprehensive final exam, work on case studies, a comprehensive project and ability to analyze statistical data based on collected information.

VII. EVALUATIONS:

TEST I.....	100 Points
TEST II	100 Points
Case Studies	100 Points*
Final Exam.....	100 points
Project.....	100 Points
TOTAL	500 Points

*** Two Individual Cases (30 Points each) and one group Case @ 40 points.**

All case studies and project should be done by computers using Excel to perform the calculations. Up to one-third of the points for case studies and project assigned to form, overall

presentation, formulation, tables, graphs and any other supporting materials and documentation.

The final exam will be comprehensive.

No “extra points or credits” work will be considered at any time.

VIII. GRADING SCALES:

A letter grade will be assigned based on the total points earned by each student as follows:

A	480 – 500 Points
A-	450 – 479 Points
B+	435 – 449 Points
B	420 – 434 Points
B-	400 – 419 Points
C+	385 – 399 Points
C	370 – 384 Points

NOTE:

- For students who are admitted to the MBA Program prior to Fall 2006, credits for courses with grades below “C” are not accepted toward requirements for the degree.
- For students who are admitted to the MBA Program starting Fall 2006, any grades below “B-“ are not accepted toward requirements for the degree and may be repeated subject to the Repetition of Course Policy.

C-	350 – 369 Points
D+	335 – 349 Points
D	320 – 334 Points
D-	300 – 319 Points
F	Below 300 Points

Please be advised that the MAKE-UP assignments and tests and case studies will be given with advanced notice and arrangement and only for conditions beyond student’s control.

IX. COURSE OUTLINE:

The following course outline is **VERY** tentative and is subject to change. It is responsibility of the student to be aware of any announced departure from this outline:

WEEK	CHAPTER/S	TOPIC/S
1	1, 2, 3	Data, Descriptive Statistics Numerical Measures.
2	3 and 4	Numerical Measures and Introduction to Probability
3	5	Discrete Probability Distributions
FIRST TEST (Ch. 1,2,3, and 4)		
4	6 and 7	Continuous Probability and Sampling Distributions
5	Saturday March 31, 07	MBA Success Skills Workshop
6	8, 9, and 10	Interval Estimation and Hypothesis Testing
7	11	Inferences about population Variances
SECOND TEST (Ch. 5, 6, 7, 8, 9, and 10)		
8	13 and 14	Analysis of Variance and Simple Linear Regression
9	15 and 17	Multiple Regression and Nonparametric Methods
10	FINAL EXAM as scheduled	