**QMTH 680 – Statistical Methods and Business Research**

Section 001 – 1.5 Credit Hours

Winthrop University

College of Business Administration

Spring Semester 2014

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**Catalog Description**

Topics include research question and hypothesis specification and testing, experimental design, measurement, and sampling. Analysis of data is conducted using SPSS, STATA or other appropriate statistical software. Statistical methods utilized include hypothesis testing, simple linear and multiple regression and correlation analysis.

**Introduction**

Welcome to QMTH 680, Statistical Methods and Business Research. The primary goal of this course is for you to learn the statistic and quantitative skills to help you succeed in the MBA program as well as in your career. Employers consistently tell us that they desire employees with strong quantitative skills, and this course will serve as an excellent platform for you to prove to potential (or current) employers that you can assist them in their quest to find valuable employees. Particular attention will be paid to the practical application of statistics as we build towards analysis via simple and multiple regressions.

There is A LOT of information for us to cover in a VERY short period of time since this is a half semester course. Make sure that you stay on top of the information that we cover from each chapter, and come to see me early on if you need additional help.

**Student Conduct**

As noted in the Student Conduct Code: “Responsibility for good conduct rests with students as adult individuals.” The policy on student academic misconduct is outlined in the Student Conduct Code Academic Misconduct Policy in the Student Handbook, which can be found online at http://www3.winthrop.edu/studentaffairs/handbook/StudentHandbook.pdf

**Academic Dishonesty**

Academic dishonesty is a serious offense because it diminishes the quality of scholarship and the learning experience for everyone on campus. An act of academic dishonesty may lead to such penalties as reduction of grade, probation, suspension, or expulsion from the University. I reserve the right to assign a grade of zero for the assignment and/or a course grade of F for actions involving violations of Winthrop’s Student Academic Misconduct Policy.

**Technology Policy**

Cell phones or related devices are not allowed at any time during class. If you are text messaging during class you will be asked to leave the room and will be counted absent for that day. Students are permitted to use a calculator during tests when needed, but it must be a basic calculator without storage functions (e.g. a dollar store calculator). Students will not be able to share calculators during an exam. Graphing calculators are not to be used.

**Disability Services**

Winthrop University is dedicated to providing access to education. If you have a disability and need classroom accommodations, please contact Gena Smith, Coordinator, Services for Students with Disabilities, at 323-3290, as soon as possible. Once you have your Professor Notification Form, please tell me so that I am aware of your accommodations well before the first assignment, test, or paper.

**Required Text**

*Statistics for Management and Economics, 9th Edition,* Gerald Keller. ISBN 0-538-47749-0.

**Tests**

There will be two tests given in this class. There will be no comprehensive final exam.

**Homework**

Students will have homework due most weeks. The assignments will come from your book. Homework must be submitted at the beginning of class on the due date to receive credit.

**Grading**

Exam 1 40%

Exam 2 40%

Homework 20%

Total 100%

**Grading Scale**

A = over 93%

A- = 90 – 92%

B+ = 87 – 89%

B = 83 – 86%

B- = 80 – 82%

C+ = 77 – 79%

C = 73 – 76%

C- = 70 – 72%

F = 69% and below

**Syllabus Change Policy**

Keep in mind that this syllabus is subject to change. Students will be notified if changes are required to any content reflected in this syllabus.

**TENTATIVE COURSE SCHEDULE**

DATE TOPICS

R 3/6 Chapter 1: What is Statistics?

Chapter 2: Graphical Descriptive Techniques I

Chapter 3: Graphical Descriptive Techniques II

R 3/13 Homework Due

Chapter 4: Numerical Descriptive Techniques

Chapter 5: Data Collection and Sampling

Chapter 7: Random Variables and Discrete Probability Distribution

R 3/20 Spring Break – No Class

R 3/27 Homework Due

Chapter 8: Continuous Probability Distributions

Chapter 9: Sampling Distributions

R 4/3 Homework Due

Exam 1 – Chapters 1-5, 7-9

R 4/10 Chapter 10: Introduction to Estimation

Chapter 11: Introduction to Hypothesis Testing

R 4/17 Homework Due

Chapter 12: Inference about a Population

Chapter 13: Inference about Comparing Two Populations

R 4/24 Homework Due

Chapter 16: Simple Linear Regression and Correlation

Chapter 17: Multiple Regression

Final Exam: Thursday 5/1 at 6:30 pm

R 5/1 Homework Due

Exam 2 - Chapters 10-13, 16-17