Course Syllabus for MATH 1342 Section Thomas Statistics 2011 Spring Standard Semester

Note to Students: Syllabi are the most recent available at the time they were posted to the VCT website. They will be updated, as appropriate, on the syllabi disseminated on the class start dates. For current textbook information, refer to the Course Details accessed by clicking the course title in the online Course Schedule.

Midland College Syllabus 2010-11
MATH 1342 Statistics (WEB/Online)
3 Semester Credit Hours (3 lecture/0 lab)

Instructor Information:
Instructor: Lori Thomas  
Office: AHSF 104
Phone: 432-685-4618  
Office Hours:
MW: 10 – 12:30
T: 2-3:30, R: 11-2:30
Email: lthomas@midland.edu

Course Description:

MATH 1342 is designed to enable students to learn the introductory techniques of collection, presentation, analysis, and interpretation of numerical data. Correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models, and programming are also studied. Course Fee.
Text and Materials:


A graphing calculator (TI 83/84) and the use of Microsoft Excel (on a computer) are needed for some activities. Excel is available in the Learning Resource Center for Midland College students.

Course Goals/Objectives:

After successful completion of this course, students will be able to use statistics correctly. The student will be able to consult with a statistician using appropriate vocabulary. The student will be able to design a simple survey, complete the survey, analyze the survey, and present the results in a clear manner without misrepresenting the information collected.

Student Contributions and Class Policies:

Students must contact the instructor prior to first class meeting. If students have not contacted the instructor by the 12th class day of the semester, the student will be dropped for lack of attendance. Students will act in an appropriate manner that will not interfere with the learning situation of other students as determined by the instructor. It is imperative that students prepare for class. It is assumed that students have read assignments and completed homework prior to class. Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject.
Evaluation of Students:

Projects, homework, quizzes (online) 30%
Midterm (Proctored) 35%
Final (Proctored) 35%

The grade scale is in accordance with Midland College Faculty handbook.

- 90 - 100 for an A
- 80 - 89 for a B
- 70 - 79 for a C
- 60 - 69 for a D
- 0 - 59 for a F

Intellectual Competencies:

1. READING – The ability to analyze and interpret a variety of printed materials – books, documents, and articles – above 12th grade level.

4. LISTENING – The ability to analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading – above 12th grade level.
5. CRITICAL THINKING – The ability to apply both qualitative and quantitative skills analytically and creatively to subject matter to evaluate arguments and construct alternative strategies.

6. COMPUTER LITERACY – Understand our technological society, use computer based technology and communication, solving problems, acquiring information.

**ADA Statement:**

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations.

**Exemplary Objectives:**

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2 To represent and evaluate basic mathematical information verbally, numerically, graphically and symbolically.

3 To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.

4 To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.

5 To interpret mathematical models such as formulas, graphs, tables and schematics and draw inferences from them.

6 To recognize the limitations of mathematical and statistical models.

7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understanding its connections to the other disciplines.
Useful Information:

Division Dean: Dr. Margaret Wade, 125 AHSF, 685-4615
Division Secretary: Brenda Smith, 124 AHSF, 685-6413
Christina Granado, 124 AHSF, 685-4612
Faculty Advisor: Lori Thomas, 685-4618

COURSE OUTLINE

Chapter 1: The Nature of Probability and Statistics (1.5 weeks)

Chapter 2: Frequency Distributions and Graphs (1 week)

Chapter 3: Data Description (2.5 weeks)

Chapter 4: Probability and Counting Rules (2.5 weeks)

Chapter 5: Discrete Probability Distributions (2 weeks)

Chapter 6: The Normal Distribution (2.5 weeks)

Chapter 7: Confidence Intervals and Sample Size (1 week)

Chapter 8: Hypothesis Testing (1 week)

Times are approximate.
Prerequisite: Requires a "B" or greater in MATH 0391 and a "P" in MATH 0190 or a higher level math course or a satisfactory score on an Algebra placement test.

BLACKBOARD LOGIN DIRECTIONS

http://blackboard.midland.edu

User ID: VCT – 1st initial of first name + first 3 letters of last name + last 3 numbers of telephone number. (Example: John Doe; 485-123-6789: VCT-jdoe789)

Please note there is a hyphen after "VCT."

Password: Phone number with dashes. (Example: 485-123-6789)

Note: Student must use telephone number submitted at registration with host college.

After login, access the Tools bar > Personal Information > Change Password > verify or revise e-mail address > Submit. The student must consistently use the same e-mail address to facilitate communication between student and instructor.

The course (http://www.midland.edu/blackboard) will be accessible to the student at 8:00 a.m. on the first day of class instruction. If the course is not accessible, contact the Midland College webmaster by clicking on the “Blackboard Online Help Request” link at http://www.midland.edu/blackboard/index.html.

Contact the Midland College webmaster if experiencing difficulty logging into Blackboard. Click on the “Blackboard Online Help Request” link at http://www.midland.edu/blackboard/index.html.

For more information about VCT or help with the VCT website, please contact the Website Manager.

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