Instructor: Gerald Allen  
Office Location: West Texas Training Center B120 (San Angelo Campus)  
Office phone: (325) 481-8300 ext. 3265  
Office hours: MW 10:45-12:00pm, T/R 8:15-9:30am  
Email: gallen@howardcollege.edu  
Prerequisite: Score of 350 on the TSI Assessment; if a student scores between 347 – 349, a co-requisite of MATH 0101 or a NCBO may be an option  
Co-requisite: There may be a co-requisite of MATH 0101 or an individualized NCBO  
Class Meeting Times/Dates: M 5:00 – 7:30pm C119 (8 Weeks: January 21 – March 21, 2014)  

I. Course Description: MATH 1342 Elementary Statistical Methods  
Three semester hours (3-0)  
Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

II. Instructional Materials  
Required: MyStatLab Student Access Kit, Pearson, ISBN 0321694643  
Other: Computer with internet access, paper, pencils, erasers, and calculator.  
Note: The MyStatLab Student Access Kit contains an electronic version of the textbook. If you wish to purchase a hard copy of the textbook, the information is given above, but a hard copy is not required. Registration instructions for MyStatLab, including the Course ID, will be posted in Angel the week before classes begin. The web address for Angel is howardcollege.angellearning.com. The web address for MyStatLab is www.pearsonmylab.com.

III. Course Requirements  
Homework: Homework will be assigned for each section covered. You will have several online help aids available as you work the homework problems. Please try to work the assignments in order and pay attention to the due dates. Homework assignments are not timed. You may rework the problems as many times as you wish before the due date (by clicking “Similar Exercise”) in order to improve your grade and to prepare for quizzes and exams. The lowest homework grade will be dropped at the end of the semester, and the remaining homework grades will be averaged together to make up 10% of your overall course grade.
Quizzes: We will have 8 quizzes covering two or five sections each. You must complete the assigned homework for each section and then complete the review homework before taking the quiz. The quizzes will be timed. Once you open a quiz, you will have one hour to complete it. You will not have any of the online help aids available to you. You will have only one attempt at each quiz. Please pay attention to the quiz due dates. The lowest quiz grade will be dropped at the end of the semester, and the remaining quiz grades will be averaged together to make up 30% of your overall course grade.

Exams: We will have a midterm exam and a comprehensive final exam. The midterm covers chapters 1 - 5. The final exam covers chapters 1 - 8, and 10. You must complete all homework and quizzes for the covered sections as well as the exam review homework before attempting the exam. The exams will be timed. Once you open an exam, you will have two hours to complete it. You will not have any of the online help aids available to you. You will have only one attempt at each exam. Please pay attention to the exam due dates. The final exam grade will replace the midterm exam grade if the final exam grade is higher; otherwise, each exam will be 30% of the overall course grade. Nothing will replace the final; the final exam is mandatory for everyone.

EACH STUDENT IS EXPECTED TO DO HIS/HER OWN WORK. Calculators may be used on all assignments.

IV. Learning Objectives

Student Learning Outcomes
Upon successful completion of this course, students will:
1. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
2. Recognize, examine and interpret the basic principles of describing and presenting data.
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics.
4. Explain the role of probability in statistics.
5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables.
6. Describe and compute confidence intervals.
7. Solve linear regression and correlation problems.
8. Perform hypothesis testing using statistical methods.

Program Outcomes
• Critical thinking skills to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
• Communication skills to include effective development, interpretation and expression of ideas through written, oral and visual communication
• Empirical and quantitative skills to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
V. **Attendance Policy/Makeup Work**

Most assignments will be available to you for a minimum of one week. Please pay attention to all due dates and allow for unexpected computer problems, illnesses, trips, etc., by not waiting until the last minute to begin your work. You are strongly encouraged to work ahead as assignments become available. Assignments must be submitted by the due date to avoid points being deducted. To submit an assignment after the due date, you must contact me within 24 hours after the due date to ask for an extension. Late assignments will have 20 points deducted from the grade. It is the student’s responsibility to contact the instructor about makeup work. Once final grades have been turned in, no makeup work can be accepted.

VI. **Class Assessment/Grading**

<table>
<thead>
<tr>
<th>Homework</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz Average</td>
<td>30%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

Letter grades and their corresponding numeric averages will be:
- A (90-100)
- B (80-89)
- C (70-79)
- D (60-69)
- F (below 60)

VII. **Course Content:** College-level courses may include controversial, sensitive, and/or adult material. Students are expected to have the readiness for college-level rigor and content.

VIII. **ADA Statement:** Any student who requires special accommodations due to a documented disability under the provisions of the American with Disabilities Act should contact the District Coordinator the first week of class.

IX. **Course Calendar:** Here is the tentative schedule for the semester. Please see the announcements in MyStatLab for information on assignments and due dates.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics Covered</th>
<th>Quizzes/Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Syllabus, Introduction to Statistics</td>
<td>Quiz 1 Chapter 1</td>
</tr>
<tr>
<td>Week 1</td>
<td>Summarizing and Graphing Data</td>
<td>Quiz 2 Chapter 2 and 3</td>
</tr>
<tr>
<td>Week 1</td>
<td>Descriptive Statistics</td>
<td>Quiz 3 Chapter 4</td>
</tr>
<tr>
<td>Week 2</td>
<td>Probability</td>
<td>Quiz 4 Chapter 5.2</td>
</tr>
<tr>
<td>Week 3</td>
<td>Discrete Probability Distributions</td>
<td>Quiz 5 Chapter 6</td>
</tr>
<tr>
<td>Week 3 &amp; 4</td>
<td>Midterm Review, Midterm Exam</td>
<td>Quiz 7 Chapter 8</td>
</tr>
<tr>
<td>Week 4</td>
<td>Normal Distribution</td>
<td>Quiz 8 Chapter 10</td>
</tr>
<tr>
<td>Week 5</td>
<td>Confidence Interval Estimates and Sample Sizes</td>
<td>Quiz 6 Chapter 7</td>
</tr>
<tr>
<td>Week 6</td>
<td>Hypothesis Testing</td>
<td>Quiz 7 Chapter 8</td>
</tr>
<tr>
<td>Week 7</td>
<td>Linear regression and correlation problems</td>
<td>Quiz 8 Chapter 10</td>
</tr>
<tr>
<td>Week 7</td>
<td>Final Exam Review</td>
<td></td>
</tr>
<tr>
<td>Week 8</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>
X. **Refunds**
Please note the important add/drop/refund dates found on the Howard College webpage at www.howardcollege.edu located under Current Students – San Angelo – Business Office.

XI. **Review of Graded Assignments**
After submitting a quiz or exam for grading, you will be given the opportunity to review any problems you missed. If you believe the computer has graded in error or that you have entered the correct answer in a different form, you may e-mail me to review the problem. Be sure to include your name, quiz/exam name, specific problem number(s), and an explanation of why you believe your answer(s) to be correct. Requests for review of quiz/exam questions must be made within 24 hours after the quiz/exam due date. You do not need to contact me to review homework problems; homework problems may be corrected by the student by clicking “Similar Exercise”.

The instructor reserves the right to modify this syllabus at any time.