**Course: MTH 225 Introductory Statistics Term: Spring 2015 Section: 205 CRN: 4150**

**Instructor:** Nick Bedway

**Office:**  Gullickson Hall 212N (Huntington Campus)

**Office Hours:** By Appointment

**Phone/E-mail:** 304-696-3257/bedway@marshall.edu

**Required Texts**: *Elementary Statistics – A Step by Step Approach (A Brief Version)* by Bluman (Sixth Edition)

**Computer Requirements**: This class requires a scientific or graphing calculator. The math department recommends the TI-83/84. This is the calculator I will utilize in class. All electronic communications will be through your Marshall E-Mail. If you use another e-mail service, please have your Marshall e-mail forwarded to that e-mail address.

# University Computing Services’ Acceptable Use Policy: All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/cs/acceptable_use.pdf>.

**Course Description**: Introductory Statistics (3 hours) Basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications (PR: (a) ACT > 21, or (b) SAT > 500, or (c) MTH 121, 123, 127, 130E, 122, or 130). The course covers basic descriptive statistics, elementary probability: rules and distributions, estimation and hypothesis testing, causal relationship, basic categorical analysis and one-way analysis of variance.

**Course Objectives:** After completing this course, students will be able to:

1. Use the elementary tools of data collection, description, and analysis.
2. Interpret the results of statistical studies.
3. Design and carry out simple experiment.
4. Use a computer spreadsheet program to carry out these tasks.

**Evaluation/Measurement of Learner Outcomes** Discussion Questions 5.0%, 50 points

 Homework/Quizzes 18.0%, 180 points

 Exams (3 @ 19% each) 57.0%, 570 points

 Final 20.0%, 200 points

 Total 100.0%, 1000 points

**Assessment Evaluation Methods:**

* Ten Discussion Questions worth five points each.
* Eighteen homework and/or quizzes worth 10 points each. Quizzes will be multiple choice and short answer questions. The course grade will be computed using the exact point scores.
* Three exams will be evaluated by multiple choice questions and written questions. Letter grades will be assigned for each exam, but the course grade will be computed using the exact point scores, not by averaging letter grades.
* A final exam will be evaluated by multiple choice questions and written questions. Letter grades will be assigned for the exam, but the course grade will be computed using the exact point scores, not by the letter grade.

**Grading Policy:** Grades will be assigned according to the following scale:

90 – 100%, 896 – 1000 points **A**

80 – 89 %, 796 – 895 points **B**

70 – 79 %, 696 – 795 points **C**

60 – 69 %, 596 – 695 points **D**

59 – 0%, 0 – 595 points **F**

**Academic Honesty**: Students are expected to present their own work on all tests and homework quizzes. Asking questions, discussing solutions with other students —**not copying the work**—is an essential part of the learning process. **Know the difference**. If you have any questions about the policy to be followed, please see pages 70 – 72 of the 2014–15 undergraduate catalog or go to this webpage: <http://www.marshall.edu/ucomm/files/web/UG_14-15_published.pdf>

**Inclement Weather Policy**: Any announcement about school closings may be found by: announcements on one of the four local FM radio stations: Big Country 99.5, The River 101.5, Sunny 93.1, and The Frog 92.1; check the website [www.marshall.edu/movc](http://www.marshall.edu/movc); or the weather hotline (304) 674-7239.

**Disabled Students**: **IF YOU HAVE ANY DISABILITY** that may prevent you from full participation in any of the activities of this class, please let me know as soon as possible so that arrangements can be made and be sure to register with the Office of Disabled Student Services or with the H.E.L.P program. Accommodations in testing, readers, tutors, and extra help sessions are available, but only after a discussion with the office of D.S.S. or H.E.L.P and me.

**Equal Opportunity/Affirmative Action Policy**: This course will follow Marshall University’s policy on Equal Opportunity/ Affirmative Action, which can be found on p. 67 of the 2014 – 15 undergraduate catalog or go to this webpage: <http://www.marshall.edu/ucomm/files/web/UG_14-15_published.pdf>. Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Attendance Policy:** You will gain the most from this course by attending and participating. Therefore, make every effort to come to class and be prepared.

**Homework Quiz Policy:** Homework will be assigned every class meeting. Assignments will be either collected or a quiz will be given over the material.

**Exam Policy:** There will be a total of three in-class exams and one comprehensive final covering the material from the text. The approximate time-frame for these exams is given later in the syllabus. Valid excuses for missing an exam fall into five categories: university-sponsored activities; student illness or critical illness/death in the immediate family; short-term military obligation; jury duty or subpoena for court appearance; or religious holidays. If you miss an exam due to an excused absence, you are allowed to take a makeup test at the instructor’s and your earliest convenience. If you miss a test due to an unexcused absence, you will receive a grade of 0 for that test. By university policy, an unexcused absence from a final exam earns an F in the course (page 91 of the 2014 – 15 undergraduate catalog). **The final will be on Monday, May 4, 2015 at 5:00 pm in our classroom (Rm. ).**

**Dissemination of Announcements and Additional Course Information:** The instructor of this course will make every effort to disseminate all information pertinent to the class during the normal class meetings; however, times arise when it is necessary to disseminate information outside the normal meeting times. The instructors, in this case, will use the Marshall University E-mail system to disseminate any pertinent information to the student. The student is expected to check his/her email twice daily.

Tentative Weekly Schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week | **Date** | **Topic** | Week | **Date** | **Topic** | Week | **Date** | **Topic** |
| **1** | Jan 12Jan 14 | Introduction1.1—1.6 | **6** | Feb 16Feb 18 | 4.3—4.55.1—5.2 | **11** | Mar 30 Apr 1 | 8.4—8.69.1—9.3 |
| **2** | Jan 19Jan 21 | **No Class, MLK Day** 2.1—2.2 | **7** | Feb 23Feb 25 | 5.2—5.36.1—6.2 | **12** | Apr 6Apr 8 | 9.3—9.510.1—10.2 |
| **3** | Jan 26Jan 28 | 2.3—2.431.—3.2 | **8** | Mar 2Mar 4 | 6.3—6.47.1—7.2 | **13** | Apr 13Apr 15 | 10.3, 11.111.2—11.3 |
| **4** | Feb 2Feb 4 | 3.3—3.44.1—4.3 | **9** | Mar 9Mar 11 | Review for Exam 2 **Exam 2** | **14** | Apr 20Apr 22 | Review for Exam 3**Exam 3** |
| **5** | Feb 9Feb 11 | Review for Exam 1 **Exam 1** | **10** | Mar 23Mar 25 | 7.3—7.48.1—8.3 | **15** | Apr 27Apr 29 | Review for FinalReview for Final |

Important Dates

**January 12-**First Day of Classes

**January 12 — January 16-**Late Registration

**January 19-**University Closed

**January 20 -**“W” Withdrawal Period Begins

**March 9-**Freshmen Mid-Term Grades Due

**March 16 — March 20 -**Spring Break

**March 23-**Classes Resume

**March 27-**Last Day to Drop a Full Semester Individual Course

**March 30 – May 1-**Complete Withdrawals Only

**April 27 — May 1 -**“Dead Week”

**May 1-**Last Day to Completely Withdraw For Spring Semester

**May 4-Final Exam**