Marshall University
Syllabus

Course Title/Number	**MTH 225 – Introductory Statistics**
Semester/Year	Spring 2014
Days/Time	Online
Location	Web
Instructor	Laura L. Stapleton
Office	Smith Hall 311B
Phone	304-696-4334
E-Mail	stapleto@marshall.edu
Office/Hours	By appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

This course introduces students to basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications.

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

Course Student Learning Outcomes	**How students will practice each outcome in this Course**	**How student achievement of each outcome will be assessed in this Course**
Students will identify types of data.	Homework, Excel Projects	Homework, Excel Projects and Exams
Students will organize data using a frequency distribution.	Homework	Homework and Exams
Students will draw and interpret a stem and leaf plot.	Homework	
Students will summarize data using measures of central tendency.	Homework and Excel Projects	Homework, Excel Projects and Exams
Students will describe data using measures of variation.	Homework and Excel Projects	Homework, Excel Projects and Exams
Students will determine the probability of an event and compound events.	Homework	Homework and Exams
Find the conditional probability of an event.	Homework	Homework and Exams

Find the mean, variance and standard deviation for the variable of a binomial distribution.	Homework	Homework and Exams
Find the area under the standard normal distribution, given various z values.	Homework	Homework and Exams
Find the confidence interval.	Homework	Homework and Exams
State the null and alternative hypothesis.	Homework	Homework and Exams
Compute the equation of the regression line.	Homework	Homework and Exams.

Required Texts, Additional Reading, and Other Materials

1. Elementary Statistics: A Step by Step Approach, A Brief Version, 2013. Sixth Edition. Bluman, Allan G.
2. Connect Math License
3. Access to a computer with Internet Access

Course Requirements / Due Dates

1. All Module 1 Homework, Excel Projects and exam must be completed by February 10, 2014 at 11:59pm.
2. All Module 1 Homework, Excel Projects and exam must be completed by March 17, 2014 at 11:59pm.
3. All Module 1 Homework, Excel Projects and exam must be completed by April 28, 2014 at 11:59pm.
4. Final Exam must be completed by May 5, 2014 at 11:59pm.

Grading Policy

A student's grade is assessed by the following percentages earned from each of the categories below:

Category	% of Grade
Module Exams (3 @ 15% each)	45%
Homework	25%
Comprehensive Final	20%
Excel Projects	10%
Total	100%

The Mathematics Department uses the following grade scale for its classes:

90 – 100 = A
80 – 89 = B
70 – 79 = C
60 - 69 = D
Below 59 = F

Grades earned in Connect Math will be exported to Blackboard after the module's due date. Note: The due dates are firm. You will receive a penalty of 20% on any gradable item that is not complete by the due date.

Attendance Policy

There is absolutely no requirement that you come to campus. You can communicate with me via the course Mail tool in Blackboard. All exams are timed and taken online.

Connect Math

How do you register for Connect Math?

- Go to www.connectmath.com
- Click the "**Sign up now!"** link. (This can be found in the center, towards the lower part of the page, under NEW USER?)
- Enter the following Course Code: **4UGXV-3VHLE**
- Enter your **Connect Math Access Code** if you have already purchase your book and access.

  OR

- **Click on the link *purchase an access code online* (found just above the window where you enter the Connect Math Access Code) and choose from one of the two links seen there. The $52.50 license contains 52 weeks of access alone; the $85.00 license contains an ebook and 52 weeks of access.**

  OR

  If you do not have your access code yet and you can't purchase it at this time, you can use the following 2 week Financial Aid Access Code : 2E84B-2DA84-6F712-831B0.

  This code gives you temporary access to Connect Math for a two-week period. You can use it for any reason (don't have Financial Aid monies, haven't got around to buying your book, etc.) Once the code expires, you will be locked out of Connect Math acct. until you purchase a regular Student Access Code*. To avoid interruptions, please purchase your Student Access Code BEFORE the two weeks expire. Note: the above two weeks will be deducted from the 52 week access term of your Student Access license. Therefore, you will have the remaining 50 weeks available for this and another class(es) within the next 50 weeks that potentially use Connect Math.

- **Fill in the remaining information to complete the registration.**

***Please note that when you renew your access by purchasing the Student Access Code, you do not need to create a new Connect Math to continue your course. You will not lose any of your work when you renew.**

EXCEL PROJECTS: In **Blackboard**, at the end of Chapters 2 and 3, you will find an Excel Project that should be completed by the due date listed for that module as found in the **Schedule.**

HOMEWORK: All homework can be found in Connect Math. To the right of each question, you will find some very useful tools that will provide immediate feedback to you, such as **Check Answer**, **Solve It** or **Guided Solution**. Another helpful feature is the **Ask My Instructor** option. This will allow you to send me an email about a specific question.

All of the homework can be taken an **unlimited** number of times so that you feel comfortable with the material before the module exam with the highest score being used to determine your grade. When you take a homework assignment over, you only need to do the problems you got incorrect.

ASSESSMENT POLICIES: All module exams and the Final can be found in Connect Math.

- All assessments (exams and the Final Part 1 and Part 2) are **open book/open notes**.
- All assessments (exams and the Final Part 1 and Part 2) are timed. When the timer runs out, the assessment will close. So, please pay attention to the time.
- All Module Exams have approximately twenty-five questions worth 4 pts. each. You will have **one** attempt and 3 hours for each. (I don't think it you will need this length of time, but I wanted to give you plenty of time.)
- The Final Exam will be comprehensive. It is broken up into 2 parts. The first part covers Chapters 1 – 5 and the second part covers chapters 6 - 8, and 10. You will have **one** attempt and 3 hours to complete each part. (Again, I don't think it will take you this long, but wanted you to have plenty of time.) I will add the two scores together to get your grade on the Final.

Tutoring Facilities: Marshall University provides multiple options for free on-campus tutoring. It is the student's responsibility to take advantage of these facilities in addition to utilizing office hours.

- The Mathematics Department tutoring lab is located in in Smith Music Hall 115. The current schedule can be found at www.marshall.edu/math/tutoringlab.asp. Schedules for the new semester are usually posted during the second week of classes.

- The University College has a tutoring lab on the first floor of Laidley Hall. Information regarding this facility can be found at http://www.marshall.edu/wpmu/uc/tutoring-services

Technical Requirements/Support: For minimum hardware/software requirements please see: http://www.marshall.edu/muonline/hardwaresoftwarecheck.asp

- Be sure to run the free web browser tuneup: http://www.marshall.edu/muonline/support/tuneup.asp

- You will need to have several plugins (software) installed on your computer. These plugins are all free. You will need **Real Player** and **Flash Player** to experience the streaming video and audio clips that are part of the course. You can easily check your computer to see if you have these programs (and if you don't install them for free), by clicking on this link: http://www.marshall.edu/muonline/support/plugin.asp
- If you have technical problems, please go to the Help Desk: http://www.marshall.edu/muonline/technicalfaq.asp

Technical Support: Marshall University offers the following technical support for its students who take either traditional or online classes:

SERVICE DESK HOURS – Located in Drinko Library on the Main MU Campus
Monday - Thursday: 24 Hours
Friday: 8:00AM - 6:00PM
Saturday & Sunday: On Call Only (Calls received will be returned within 4 hours)

HELP DESK CONTACT INFO:
(304) 696-3200 Huntington calling area
(304) 746-1969 Charleston calling area
(877) 689-8638 Toll free, outside the Huntington/Charleston calling areas
http://www.marshall.edu/inforesources
itservicedesk@marshall.edu

Need Help with Connect Math?
To contact their customer service department by email, phone, or fax, please use the following contact numbers: (All hours are EST.)

Sunday:	**4:00 pm to 1:00 am**
Monday – Thursday:	**7:00 am to 1:00 am**
Friday:	**7:00 am to 9:00 pm**
Telephone:	949-390-2095
Fax:	949-390-2097
Email:	http://support.connectmath.com

Course Schedule

Module	Please complete in the order shown.
Module 1	• Click on **Read This First**. • Read the Syllabus. • Familiarize yourself with the e-course • **Send the instructor an email indicating that you have successfully logged into the course.** • Register with Connect Math (See the Syllabus for registration information.) Log in to Connect Math.
	• Read the Module 1 material: Chapters 1 – 3 • As you read a section, go to Connect Math and watch the video and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)
	• **Do: Excel Project 1, in Blackboard>Module 1.** • **Do: Excel Project 2 in Blackboard>Module 1.**
	• **Take the Module 1 Practice Exam to determine mastery of the material.** • **All Connect Math homework, Excel Projects 1 & 2 and Module 1 Exam must be completed by Monday, February 10th at 11:59 pm.**
Module 2	• Read the Module 2 material: Chapters 4 – 6 • As you read a section, go to Connect Math and watch the video and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)
	• **Take the Module 2 Practice Exam to determine mastery of the material** • **All Connect Math homework and Module 2 Exam must be completed by Monday, March 17th at 11:59 pm.**
Module 3	• Read the Module 3 material: Chapters 7 - 8, and 10. **(We do not cover Chapter 9.)** As you read a section, go to Connect Math and watch the video and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)
	• **Take the Module 3 Practice Exam to determine mastery of the material.** • **All Connect Math homework and Module 3 Exam must be completed by Monday, April 28th at 11:59pm.**
Final Exam	• **Take the Final Exam (Parts 1 and 2) Practice Exams to determine mastery of the material.** • **Final Exam (Parts 1 and 2) must be completed by Monday, May 5th at 11:59 p.m.**