Marshall University
Syllabus

Course Title/Number	**MTH 121 Syllabus – Concepts and Applications**
Semester/Year	Fall 2017
Days/Time	Online
Location	Web
Instructor	Laura L. Stapleton
Office	Smith Hall 720
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

A critical thinking course for non-majors that develops quantitative reasoning skills. Topics include logical thinking, problem solving strategies, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, formula use, financial concepts.

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 solve real-world problems using unit analysis.	Homework, Chapter reviews	Homework, Critical Thinking activities, review quizzes and exams
Students will interpret and analyze numbers that they will encounter in the real world.	Homework, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities review quizzes and exams
Students will demonstrate a proficiency in utilizing formulas from basic financial concepts such as loan payments, credit cards, and mortgages.	Homework, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities review quizzes and exams
Students will interpret and analyze statistical studies.	Homework, Chapter reviews	Homework, Critical Thinking activities review quizzes and exams
Students will analyze and interpret	Homework, Chapter review	Homework, Critical Thinking

statistical concepts such as measures of central tendency, measures of variation, and normal distributions.		activities review quizzes and exams
Students will compare linear growth and exponential growth rates and their real-world applications.	Homework, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will demonstrate a proficiency in the fundamentals of probability including expected value.	Homework, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will demonstrate an ability to analyze arguments and construct fallacies.	Homework, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams

Required Texts, Additional Reading, and Other Materials

1. Jeffrey O. Bennett and William L. Briggs, *Using and Understanding Mathematics*, Sixth Edition. ISBN# 9780321923202.
2. Scientific Calculator
3. Access to a computer with Internet Access

Course Requirements / Due Dates

1. **Module 1** (Chapters 2 – 3) Homework Assignments, Review Quizzes and Exam are to be completed by **Friday, January 27, 2017.**
2. **Module 2** (Chapters 4 – 5) Homework Assignments, Critical Thinking Activity, GEAR Upload, Review Quizzes and Exam are to be completed by **Friday, February 24, 2017**.
3. **Module 3** (Chapters 6 – 7) Homework Assignments, Review Quizzes and Exam are to be completed by **Friday, March 31, 2017**.
4. **Module 4** (Chapters 1 and 8) Homework Assignments, Review Quizzes and Exam are to be completed by **Friday April 28, 2017.**
5. The **Final** (Chapters 1 – 8) is to be completed by **Friday, May 5, 2017**.

Attendance Policy

There is absolutely no requirement that you come to campus. You can communicate with me via email.   All exams are timed and taken online.

Tutoring Policy

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 second floor of Smith Hall. Information regarding this facility can be found at http://www.marshall.edu/wpmu/uc/tutoring-services.

Grading Policy

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

Category	% of Grade
Exams (4 @ 15%)	60%
Homework	15%
Comprehensive Final	15%
Critical Thinking Activity	5%
Review Quizzes	5%
Total	100%

- **The due dates are firm**. Homework can be completed after the deadline but will face an automatic reduction of points by 20%.

- **Excused absences** - If you have a university excused absence (death in the family, university sport or activity absence, illness with a physician's excuse, etc. and get it approved by the Dean of Student Affairs (Office: Memorial Student Center 2W38), then the missing exam can be completed for full credit.

- **Unexcused absences** - If you do not have a university excused absence, any incomplete exams will not be re-opened and will earn a grade of 0.

- You have **two** attempts on each review quiz.

- You have one attempt on each exam and the final.

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

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

- All assessments (all Module exams and the Final) are **open book/open notes**.

- All assessments (all Module exams and the Final) are timed. When the timer runs out, the assessment will close. So, please pay attention to the time.
- Each chapter will have a quiz. This is meant to be low stakes and can be taken twice. The higher of the two scores will count. This will give you a chance to see if you understand the material before the test.
- All Module Exams have 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 have twenty-five questions worth 4 pts. each. You will have **one** attempt and 3 hours to it. (Again, I don't think it will take you this long, but wanted you to have plenty of time.)
- On the day of a deadline, make sure you start the exam/final with enough time to finish before the deadline at 11:59pm. **It is your responsibility to finish the module BEFORE the deadline. If the exam closes because you ran out of time, that is not a reason to reopen. So, budget your time appropriately.**
- After the due date, you will be able to review your tests by going to the Gradebook and clicking on the test score.
- All quizzes, exams and the final are meant to be completed in one setting. If you get kicked out due to a storm, loss of internet, etc., you will be able to log back in but the counter will not stop. If there are any rare and unusual circumstances, please email me and be able to provide documentation.

CRITICAL THINKING COURSE OBJECTIVES: (Critical Thinking – Quantitative Thinking; Information Literacy; Communication Fluency.) This course will focus on domains of Critical Thinking as a basis for understanding and interpreting mathematical topics that will enable students to develop the quantitative reasoning skills that they will need for college, career, and life. Emphasis will be placed on Improving Algebraic Skills necessary for future mathematics or science classes.

- The **Quantitative Thinking** domain objectives ask students to **analyze** real-world problems, **formulate** plausible estimates, **assess** the validity of visual representations of quantitative information and **differentiate** valid from questionable statistical conclusions.
- The **Information Literacy** domain objectives ask students to **revise** their search strategies and employ appropriate research tools, **integrate** relevant information from reliable sources, **question** and **evaluate** the complexity of the information environment, and **use** information in an ethical manner.
- The **Communication Fluency** domain objectives ask students to **develop** cohesive oral, written and visual communication tailored to specific audiences.

CRITICAL THINKING ACTIVITIES: There are two Critical Thinking Activities that are required and two Discussion forum activities. Please see the schedule for due dates. The activities can be found in Blackboard on the main page under a folder called CT Activities. The Discussion questions can be found under Discussion Board, which can be found on the left side menu.

To receive full credit, they must be received by the date and time indicated on the Schedule. Those that are received after this date and time will receive a grade of zero (0). You must answer any questions using full sentences, appropriate paragraph/sentence structure, good grammar and spelling, etc. See the Schedule/Blackboard for the exact date.

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
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)
(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

HOW TO REGISTER IN MYMATHLAB
The below procedure indicates how you can link your Blackboard course with the MyMathLab course that I have created. You need to do this once; after that, you will only need to sign in to Blackboard.

Notes

- You will not need to enter a MyLab & Mastering course ID during registration. If you are prompted for one, then you are not registering correctly. Make sure that you first log in to Blackboard and then access the Pearson course, as described in the following procedure.

How to register for MyMathLab course:
These are the basic steps you will take to link their accounts and register for the MyMathLab access.

1. Log in to the Blackboard course.

2. Click the **MyMathLab** folder on the main page of our course.

3. Click **MyMathLab Course Home**

   The first time you access the MyLab course through Blackboard, you are prompted to sign in and register. You must sign in with your Pearson account's username and password. If you do not have a Pearson account, you can create one as part of the registration process.

   After signing in or registering, the student payment options appear.

5. **You can choose to:**

- Redeem a MyMathLab access code that you have already purchased with your book bundle

- Purchase access with a credit card

- Request temporary access so they can pay later

After this one-time process, you can go to the MyMathLab Information folder (in the Blackboard course) to launch your MyLab course materials. I have put several links in this forlder so you can go directly to homework or tests, etc. After linking your accounts, you will never be prompted to sign in to MyLab & Mastering again from within Blackboard.

NEED HELP WITH MyMathLab?
- Visit www.mymathlab.com/get-registered for helpful videos, FAQs, System Requirements
- Or, visit their 24/7 Technical Support site at http://247pearsoned.custhelp.com.

Course Schedule

This schedule outlines the order that the material will be covered. Please see the appropriate weekly folder for all of the assignments that are due. All material for the week is due by Sunday at 11:59pm. For example, any assignments during the week of 8/21 (Start Here and 2A) are due on 8/27 at 11:59pm.

Week of	Sections to Be Covered
8/21	Review Start Here; 2A
8/28	2B, 3A
9/4	Chapter 2 Quiz, 3B, 3C
9/11	**Exam 1**, Chapter 3 Quiz, CT #1
9/18	4B, 4C
9/25	4D, 4E
10/2	5C, Chapter 4 Quiz**, Exam 2**
10/9	Chapter 5 Quiz, 6A, CT #2
10/16	6B, 6C
10/23	Chapter 6 Quiz, 7A, 7B
10/30	7E, Chapter 7 Quiz
11/6	**Exam 3,** 8A
11/13	8B, 1A
11/20	**Thanksgiving Break**
11/27	Chapter 8 Quiz, 1A, 1B
12/4	1D, Chapter 1 Quiz, **Exam 4**
12/11	**Final** due by 12/15 at 11:59pm