

**Marshall University
Syllabus**

Course Title/Number	MTH 121 Syllabus – Concepts and Applications
Semester/Year	Fall 2015
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 by 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 statistical concepts such as measures	Homework, Chapter review	Homework, Critical Thinking activities review quizzes and

of central tendency, measures of variation, and normal distributions.		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# 9780321923219.
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, September 11th, 2015**.
2. **Module 2** (Chapters 4 – 5) Homework Assignments, Critical Thinking Activity, GEAR Upload, Review Quizzes and Exam are to be completed by **Friday, October 9th, 2015**.
3. **Module 3** (Chapters 6 – 7) Homework Assignments, Review Quizzes and Exam are to be completed by **Friday, November 6th, 2015**.
4. **Module 4** (Chapters 1 and 8) Homework Assignments, Review Quizzes and Exam are to be completed by **Friday December 4th, 2015**.
5. The **Final** (Chapters 1 – 8) is to be completed by **Friday December 11th, 2015**.

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 first floor of Laidley 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
Module Exams (4 @ 15%)	60%
Homework	15%
Comprehensive Final	15%
Critical Thinking Activity	5%
Review Quizzes	5%
Total	100%

The due dates are firm. Given the broad deadlines (approximately 4 weeks to work on a Module), any reason for missing a deadline must be significant and lengthy (absence must be for an extended amount of time not just on the date the deadline is due). 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 and homework assignments will be opened. If you do not have a university excused absence, the missing exam and homework assignments will not be opened and a grade of 0 will be recorded.

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.
- 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. It covers the sections that we reviewed in Chapters 2, 4, 6, 7 and 8. 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.
- You are free to work ahead but you must complete the modules by the due dates.

CRITICAL THINKING ACTIVITIES: There are two Critical Thinking Activities that are required. The activities can be found in Blackboard on the main page under a folder called CT Activities. To receive full credit on the CT Activities, 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

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

Module	Suggested guideline as to what you should be working on during the week listed. Please complete in the order shown.
Module 1	- Go to Start Here (on the left side of the screen) in Blackboard: Read the Syllabus, Schedule. - Introduce yourself to the instructor and the class in the Discussion Board – About Me. - Read MyMathLab Login Instructions and log in to MyMathLab. Explore! - Read Section 2A in the textbook or eText - Complete Section 2A Homework (in MyMathLab under Homework)
	- Read Section 2B in the textbook or eText - Complete Section 2B Homework (in MyMathLab under Homework) - Read Section 3A in the textbook or eText - Complete Section 3A Homework (in MyMathLab under Homework)
	Do: CT Assignment – Metric (found on Blackboard under CT Activities)
	- Read Section 3B in the textbook or eText - Complete Section 3B Homework (in MyMathLab under Homework) - Read Section 3C in the textbook or eText - Complete Section 3C Homework (in MyMathLab under Homework)
	Module 1 Exam (in MyMathLab under Quizzes & Tests), CT Activity, Review Quizzes and homework – due date Friday, September 11th at 11:59 p.m.
Module 2	- Read Section 4B in the textbook or eText - Complete Section 4B Homework (in MyMathLab under Homework) - Read Section 4C in the textbook or eText - Complete Section 4C Homework (in MyMathLab under Homework)
	- Read Section 4D in the textbook or eText - Complete Section 4D Homework (in MyMathLab under Homework) - Read Section 4E in the textbook or eText - Complete Section 4E Homework (in MyMathLab under Homework)
	- Read Section 5C in the textbook or eText - Complete Section 5C Homework
	Do: CT Assignment – Chapter 4 (found on Blackboard under CT Activities)
	Module 2 Exam in (in MyMathLab under Quizzes & Tests), Review Quizzes and homework - due date Friday, October 9th at 11:59 p.m. Also do the CT Activity and GEAR Upload in Blackboard.

Module 3	• Read Section 6A in the textbook or eText • Complete Section 6A Homework (in MyMathLab under Homework)
	• Read Section 6B in the textbook or eText • Complete Section 6B Homework (in MyMathLab under Homework) • Read Section 6C • Complete Section 6C Homework (in MyMathLab under Homework)
	• Read Section 7A • Complete Section 7A Homework (in MyMathLab under Homework) • Read Section 7B • Complete Section 7B Homework (in MyMathLab under Homework)
	• Read Section 7E • Complete Section 7E Homework (in MyMathLab under Homework)
	• Module 3 Exam in (in MyMathLab under Quizzes & Tests), Review Quizzes and homework – due date Friday, November 6th at 11:59 p.m.
Module 4	• Read Section 8A • Complete Section 8A Homework (in MyMathLab under Homework) • Read Section 8B • Complete Section 8B Homework (in MyMathLab under Homework) •
	• Read Section 1A • Complete Section 1A Homework (in MyMathLab under Homework) • Read Section 1B • Complete Section 1B Homework (in MyMathLab under Homework)
	• Read Section 1D • Complete Section 1D Homework (in MyMathLab under Homework)
	• Module 4 Exam in MyMathLab (in MyMathLab under Quizzes & Tests), Review Quizzes and homework – due date Friday, December 4th at 11:59 p.m.
Final	• Final Exam must be completed by Friday, December 11th at 11:59 p.m.