Marshall University
Syllabus

Course Title/Number	**MTH 121B – 103 Concepts and Applications CRN: 3193**
Semester/Year	Fall 2014
Days/Time	11:00 – 11:50 M-R
Location	CH 436
Instructor	Laura L. Stapleton
Office	Smith Hall 311B
Phone	304-696-4334
E-Mail	stapleto@marshall.edu
Office/Hours	10:00 – 11:00 MW; 9:00 – 9:30 TR; 2:00 – 3:00 TR
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 quantitative reasoning skills course for non-science majors, this course meets a Core I/Critical Thinking requirement and a Core II/Social Sciences requirement. Topics include logical thinking, problem solving strategies, beginning statistics and probability, exponential and logarithms modeling, formula use, with basic algebra review. 4 hrs. PR: ACT Math 17 - 18, OR permission of University College.

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, Group work, in-class discussions, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will interpret and analyze numbers that they will encounter in the real world.	Homework, Group work, in-class discussions, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will demonstrate a proficiency in utilizing formulas from basic financial concepts such as loan payments, credit cards, and mortgages.	Homework, Group work, in-class discussions, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will interpret and analyze statistical studies.	Homework, Group work, in-class discussions, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will analyze and interpret	Homework, Group work, in-class	Homework, Critical Thinking

statistical concepts such as measures of central tendency, measures of variation, and normal distributions.	discussions, Chapter reviews, Critical thinking activities	activities and exams
Students will compare linear growth and exponential growth rates and their real-world applications.	Homework, Group work, in-class discussions, 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, Group work, in-class discussions, Chapter reviews, Critical thinking activities	Homework, Critical Thinking activities and exams
Students will demonstrate an ability to analyze arguments and construct fallacies.	Homework, Group work, in-class discussions, 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**, Fifth Edition. ISBN# 9780321706065.
2. Scientific Calculator
3. Access to a computer with Internet Access

Course Requirements / Due Dates

1. **Exam 1** (Chapters 2 – 3) week of **Sep 22, 2014**.
2. **Exam 2** (Chapters 4 – 5) week of **Oct 13, 2014**.
3. **Exam 3** (Chapters 6 – 7) week of **Nov 3, 2014**.
4. **Exam 4** (Chapters 1 and 8) week of **Dec 1, 2014**.
5. The **Final** (Chapters 1 – 8) is to be completed by **Dec 9, 2014 at 10:15 – 12:15.**

   Note: **All dates (except the Final) are tentative and subject to change**.

Attendance Policy

ATTENDANCE: Students are expected to attend each class. Attendance is taken by daily "sign-in" sheets. If you do not sign, then you will be counted as absent; and this "absence" cannot be corrected after the class has dispersed for the day.   Unexcused absences from **four classes** will result in a reduction of one letter grade for the semester; unexcused absences from **six or more** classes will result in an F.

A student may have an absence officially excused at The Office of Student Affairs, Memorial Student Center MSC 2W38. Students must present a serious reason for missing any exam (illness with a doctor's excuse, death in the family, university excused absence, etc.). Any unexcused absence on the day of an exam will result in a score of zero. Only an excused absence will warrant a make-up exam to be scheduled during Dead Week.

Grading Policy

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

Each exam (**four in-class exams**) will be worth 10% of the semester grade. **Critical Thinking Activities** will be worth 15% of the semester grade. **Basic skills assessments** will count as 15% of the semester grade. **Attendance** will count as 5% of the semester grade. **Participation** will count for 5% of the semester grade. The **Final Exam** will count for 20% of the grade.

Category	% of Grade
In-Class Exams (4 at 10%)	40%
Attendance	5%
Participation	5%
Basic Skills Assessments	15%
CT Activities	15%
Comprehensive Final	20%

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

CRITICAL THINKING ACTIVITIES: Students will complete several Critical Thinking (CT) Activities. If a paper is assigned, then care should be given to be grammatically correct with good spelling. Supporting tables and graphs, may be nessary. Students will submit a paper copy for hand grading AND possibly an electronic version to be checked for plagiarism. Students will upload one document into the GEAR assessment website.

PARTICIPATION/BOARD WORK: Participation will be counted by daily tickets awarded to students at the time of their efforts. These tickets will be signed, dated and turned-in at the end of each class day.

CLASSROOM ETIQUETTE: During class, cell phones must be turned off and out of sight**. _Any student seen using, viewing or texting on their cell phone will result in a pop quiz for the entire class._** Please make the instructor aware ahead of time if you need access to these devices.

FINAL EXAM: The final will be comprehensive and will be administered during exam week on Dec 9, 2014 at 10:15 am – 12:15 pm.

CALCULATOR: A calculator should be used only when you are instructed to do so. A scientific calculator is sufficient for MTH 121B. Students may not utilize cell phones as calculators during tests.

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