

**Marshall University
Syllabus**

Course Title/Number	MTH 121B – 202 Concepts and Applications CRN: 4762
Semester/Year	Spring 2014
Days/Time	12:00 – 12:50 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; 1:00 – 2:00 T; 1:00 – 3:00 R
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 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 **Feb 3, 2014**.
2. **Exam 2** (Chapters 4 – 5) week of **Mar 3, 2014**.
3. **Exam 3** (Chapters 6 – 7) week of **Apr 7, 2014**.
4. **Module 4** (Chapters 1 and 8) week of **Apr 28, 2014**.
5. The **Final** (Chapters 1 – 8) is to be completed by **May 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.

To obtain an excused absence, please go to the Dean of Students’ Office in the MSC. Students must notify the instructor by phone or e-mail prior to an exam if they cannot take a scheduled exam. Students must present a serious reason for missing any exam (illness with a doctor’s excuse, death in the family, university excused absence, etc.). Makeup exams will be given to students during the last week of the semester at the convenience of the instructor.

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 Five Critical Thinking (CT) Activities. Each project should contain at least two pages of text, along with any supporting tables and graphs. Students will submit a paper copy for hand grading AND possibly an electronic version to be checked for plagiarism.

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 May 9, 2014 at 10:15 am – 12:15 pm.

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>

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SCHEDULE (Subject to Change):

Week of:	Topic(s) Covered	Week of:	Topic(s) Covered
Jan 13 th	Syllabus Review, Basic Skills Material and Quiz	Mar 10 th	6A, Statistics Review and Quiz, 6B
Jan 20 th	Fraction Review and Quiz	Mar 17 th	No Classes – Spring Break
Jan 27 th	2A, 2B, Exponent Review and Quiz	Mar 24 th	6C, 7A, Probability Review and Quiz
Feb 3 rd	3A, 3B, Scientific Notation Review and Quiz	Mar 31 st	7B, 7E
Feb 10 th	3C, Exam 1	Apr 7 th	Exam 3, 8A
Feb 17 th	4B, Equation Review Material and Quiz, 4C	Apr 14 th	8B, Logarithm Review and Quiz, 1A
Feb 24 th	4D, 4E	Apr 21 st	1B, 1D
Mar 3 rd	5C, Exam 2	Apr 28 th	Exam 4 and Review for Final