Marshall University Syllabus

Course Title	Mathematical Concepts and Applications Expanded (CT)		
Semester/Year	Fall 2018		
Days	MTWR		
Number/CRN/Time	MTH 121B-101 CRN 2956 8:00 am-8:50 am		
	MTH 121B-107 CRN 2962 12:00 pm-12:50 pm		
	MTH 121B-109 CRN 2964 1:00 pm-1:50 pm		
	MTH 121B-112 CRN 2967 3:00 pm-3:50 pm		
Location	CH 436		
Instructor	Ms. Tracy Marsh		
Office	SH 526A		
Phone	304 696-3016		
E-Mail	marsh9@marshall.edu		
Office/Hours	MW 9:00 - 11:30 AM TR 11:00 - 11:30 AM		
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		
	Policy for Students with Disabilities: Marshall University is committed to equal opportunity education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disability Services (ODS) in Prichard Hall 117 (304.696.2467) to provide documentation of their disability. Following this, the ODS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experience, outside assignment, testing, and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, access the website for the Office of Disabled Student Services: http://www.marshall.edu/disabled .		

Course Description: From Catalog

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

PR: ACT Math 18 or below. 4 credit hours

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 develop strong critical and logical thinking skills to navigate the media and be an informed citizen	Class work, discussion, homework	In-class activity, projects, exam questions
Students will have a strong number sense and be proficient in estimation so they can put numbers from the news into a context that makes them understandable	Classwork, discussion, homework	In-class activity, projects, exam questions
Students will be able to read news reports of statistical studies in a way that allows them to evaluated them critically and decide whether they should affect their personal beliefs	Classwork, discussion, homework	In-class activity, projects, exam questions
Students will be familiar with basic ideas of probability and risk, and be aware of the impact on their lives	Classwork, discussion, homework	In-class activity, projects, exam questions
Students will possess the mathematical tools needed to make basic financial decisions	Classwork, discussion, homework	In-class activity, projects, exam questions
Students will understand how mathematics helps them study important social issues, such as the growth of populations, the depletion of resources, and the extermination of flora and fauna	Classwork, discussion, homework	In-class activity, projects, exam questions

Required Texts, Additional Reading, and Other Materials

- 1. **Text:** Using and Understanding Mathematics, A Quantitative Reasoning Approach, 6th Edition, by Bennett and Briggs
- 2. Scientific calculator with a $[y^x]$ or $[^*]$, $[e^x]$ or $[e^x]$, and [LOG] and [LN] keys. I suggest TI 30X II S (you can see the operations on the screen). Students may not utilize cell phones as calculators during tests.

Course Requirements / Due Dates

1. OUTSIDE CLASSROOM REQUIREMENTS: Students will need to work at least 2-4 hours outside of class for every 1 hour spent in class, studying notes and the textbook and completing homework and projects assigned in class.

BE PREPARED FOR CLASS: Students are expected to READ the scheduled textbook section AND notes BEFORE each class period.

<u>Homework</u>: There is a list of homework at the end of this syllabus as well as posted on MUOnline. Homework for a section is to be completed as soon as possible after a section is completed in class.

- The problem and a complete explanation of the answer are expected for each problem assigned (usually 10 per section, a yes or no answer requires explanation for credit on the test).
- You are expected to check your answer in the back of the book to make sure that you have the correct answer.
- While this is not collected for a grade, it helps prepare you for the exam over this material. You will be required to explain all answers on your test. Practice your explanations here. If you cannot complete any of these problems with the proper work or explanation, please see me in office hours or go to the tutoring lab for help understanding the material.

<u>Projects:</u> Project details will be provided in class and on MUOnline.

2. CLASSROOM ETIQUETTE: During class, cell phones must be turned off and out of sight. Please make the instructor aware ahead of time if access to these devices is needed. If I determine that cell phones or other electronic devices are becoming a problem during class time, I will give the class a quiz over all recent topics daily until cell phone use is no longer an issue. If the issue persists, the person will be asked to leave the class.

All conversations during class time should be on topic. If personal conversations become distracting to the class (let me know) or myself, those students will be asked to leave the class to continue their conversations elsewhere. If this becomes a regular problem, the student will be asked not to return future classes.

3. TUTORING FACILITIES: Marshall University provides multiple options for free oncampus tutoring. The Mathematics Department tutoring lab is located in Smith Hall 625. The current schedule can be found at http://www.marshall.edu/math/math-tutoring/. The University College has a tutoring lab in the Communications Building accessed through the second floor of Smith Hall. It is the student's responsibility to take advantage of these facilities in addition to utilizing office hours.

For students with tutors through the Office of Disability Services (ODS) or the HELP program, note that it is your responsibility to inform your tutors of class progress and finalized due dates and test dates. They can only help you if you keep them up-to-date.

Grading Policy

The following point totals will assure the accompanying letter grade:

90% A 80% B 70% C 60% D Below 60% F

The grading scale is rigid. Students will receive the grade that they earn from the work that they do.

	% of
Category	Grade
In-Class Exams	45%
Critical Thinking Projects	35%
Final Exam	20%

Attendance Policy

- 1. Attendance: Students are expected to attend and participate in each class. Unexcused absences from three classes will result in a reduction of one letter grade for the semester; unexcused absences from five or more classes will result in an F. To obtain a university excused absence, please notify me and go to the Dean of Students' Office in the MSC.
- 2. Make-up exams: Students must notify the instructor in person or by e-mail prior to an exam if they cannot take a scheduled exam. Students must present a university excused absence before scheduling a make-up exam. Makeup exams will be given to students outside of class time at the convenience of the instructor (Monday through Thursday) within one week after the regularly scheduled exam. After one week absences are not excusable for make-up exams and, for excused absences, you will need to wait until Dead Week to make the exam up (it will be your job to remind me that I need to make another exam just for you during Week 14).

Extra Credit Available

Test corrections are the main way to improve your class grade. See the Test Extra Credit Sheet to see how to earn back half of the points missed from your exam. This is time sensitive for a grade and is your study guide for the cumulative final exam.

Take a skills quiz for extra credit to show that you know how to do the basic math behind what we are applying. Practice problems, websites, and sample quizzes are posted in a folder on MUOnline to help you. You may take up to 4 skills quizzes worth 2 grade points each. They become available after we have started the chapter that the skills quiz comes from. Come to office hours or make an appointment to take the quiz in my office. You must score 80% or better on the quiz to get the extra credit points.

Quizzes available:

Chapter 2

Chapter 3

Chapter 4

Chapter 5 - can be taken when Chapter 6 starts

Note: These quizzes will not be returned to you. You may come to office hours to review a quiz you have taken.

Schedule is subject to change

Week	Sections	
1	Prologue, 1A, 1B	
2	1B, 1C, 1D	
3	2A, 2B Project 1 IC	
4	2C Project 2 Due	
5	Exam 1 , 3 <i>A</i>	
6	3B, 3C	
7	4B, 4C	
8	4C, 4D	
9	Exam 2, 5C Project 3 Due	
10	6A, 6B	
11	6B, 6C	
12	6C, Exam 3	
13	7A, 8A	
14	8 <i>A</i>	
15	Review	
Final Exam		
M 12/ 10	101 (8am) from 8 - 10 am	
	112 (3pm) from 3 - 5 pm	
F 12/14	107 (12pm) from 10:15 - 12:15 pm	
	109 (1 pm) from 12:45 - 2:45 pm	