

MTH 121-102: Concepts and Applications (CT)
Fall 2017

Meeting Times: MWF 9:00 a.m. – 9:50 a.m.

Classroom: SH 514

Instructor: Stacy Scudder

Office: SH 743F

Phone: 304-696-3035

Email: scudder@marshall.edu

Office Hours: MWF 7:30 a.m. – 7:50 a.m.

MW 11:00 a.m. – 12:50 p.m.

MW 2:20 p.m. – 3:00 p.m.

Other hours by appointment

**Instructor Contact
& Feedback**

The best way to contact me is through email. I usually respond within a few hours, although this isn't always possible. You may call my office, but make sure you leave a message if I'm not available. The voicemail messages get emailed to me, so I may respond by either method – most likely through email.

I expect you to participate in class by joining the discussion, answering questions or asking questions. If you aren't comfortable asking questions in class, you can email me or drop by my office.

I will do my best to get work back to you within 2 classes of the due date.

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

A critical thinking class 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.

PR: MTH 099, MTH 100, MTH 102, Math ACT 19 or better, Math SAT 460 or better.

Textbook Using and Understanding Mathematics, 6th Edition by Bennett and Briggs. ISBN: 9780321914620

Calculator You will need a scientific calculator with $[y^x]$ or $[^]$ or $[x^\square]$, $[e^x]$ or $[e^{\wedge}x]$, and $[\text{LOG}]$ and $[\text{LN}]$ keys

Course Student Learning Outcomes		
Students will...	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
analyze real-world problems quantitatively , formulate plausible estimates, assess the validity of visual representations of quantitative information, and differentiate valid from questionable statistical conclusions.	In-class discussions, homework	<ul style="list-style-type: none"> • Worksheets • Projects • Exams
apply the quantitative thinking skills that they learn to analyze problems dealing with finance and exponential growth and decay, and logarithmic models.	In-class discussions, homework	<ul style="list-style-type: none"> • Worksheets • Projects • Exams
use metacognitive thinking , to evaluate the effectiveness of their project plan or strategy to determine the degree of their improvement in knowledge and skills.	In-class discussions, homework	<ul style="list-style-type: none"> • Projects • Exams
apply integrative thinking to make connections and transfer skills and learning among varied disciplines, domains of thinking, experiences, and situations.	In-class discussions, homework	<ul style="list-style-type: none"> • Worksheets • Projects • Exams
formulate focused questions and hypotheses, evaluate existing knowledge, collect and analyze data, and draw justifiable conclusions as they apply inquiry-based thinking .	In-class discussions, homework	<ul style="list-style-type: none"> • Projects • Exams
demonstrate their communication fluency skills to present their research to specific audiences. Each student will work on five short projects on a variety of topics to be determined by the instructor.	In-class discussions, homework	<ul style="list-style-type: none"> • Projects • Exams

MUOnline

Although this isn't an online class, I will use MUOnline to post material throughout the semester. Practice exams will be posted there at least one week prior to the exams. In-class worksheets will also be posted there the day they are done in class. I post the section(s) covered in class, any textbook homework, and any other relevant information in the calendar, so check there if you are absent. There will also be other resources (videos, links to websites, etc.) posted in the resources link.

I try to keep the grades up to date online when possible, but you're always welcome to come to my office for an update.

Math Lab

There is a math lab located in SH 625 for anyone who needs more help in this, or any math class. You've already paid for this service in your regular tuition. I highly recommend you take full advantage of this service as much as possible, not just before exams.

Cell Phones and Electronics

The classroom is a learning environment and students aren't able to learn while being distracted; therefore, all cell phones are to be turned off or set to vibrate off the desk. Texting is not permitted during class. If you are seen texting in class, you will be asked to leave. Furthermore, you are not allowed to have any electronic devices that I feel may distract you or other students from the material being presented (i.e. MP3 players, laptops, tablets, etc.). If you are found operating any of these devices in an inappropriate way, you will be asked to leave.

Homework

I do not take up exercises assigned from the textbook; however, homework exercises may show up on quizzes or exams, so it is in your best interest to understand how to work them. We will go over a few homework problems you have questions about at the beginning of class. You may also ask me after class or during office hours about any problem.

Quizzes

There will be daily open-note (not open book!) quizzes given during the first five minutes of class over topics covered in the previous class or homework. These quizzes are usually only worth 5 points each, but add up over time. If you're not in class when the quiz is given, you will not be allowed to make it up so please be on time for class.

Exams

There will be at least four exams including the final. Exams must be taken at the scheduled times unless advance arrangements have been made with me or you have an excused absence. If you are absent the day of the exam, you have **one week from that date** to make arrangements to take a make-up exam. Failure to follow this policy will result in a zero for the exam.

Late Policy

There is no make-up for the daily quizzes. Unless you make prior arrangements with me, there will be no make-up exams without an excused absence. No homework will be accepted late. If you're having problems, come see me and I'll be glad to help you with the homework.

Grading Policy

Your final grade will be based on the total points possible for the class based on assignments, quizzes and exams. There will be some variation in the daily quiz score since I drop up to 3 of the lowest scores. To determine your score at any time during the semester:

- 1.) Add up all your points
- 2.) Add up the total possible points
- 3.) Divide your points by the total points and multiply it by 100

For example, suppose you have 250 points and there are 295 points possible.

$$250 / 295 = .8475 \times 100 = 84.75\%$$

Daily Quizzes	5 points each
4 Exams including Final Exam	100 points each
Credit Card Project	50 points
M&M Statistics Project	In Class Study – 25 points Excel Statistics – 25 points
Worksheets – there will be at least 3	20 points each unless otherwise stated
Extra Credit	Up to 20 points

The percentage ranges and corresponding letter grades are as follows

- A 90% -100%
- B 80% - 89%
- C 70% - 79%
- D 60% - 69%
- F 0% - 59%

I will try to keep the grades up to date on MUOnline, but you're always welcome to come to my office to see your current grade. I can't email grades, so please don't ask.

Academic Honesty

Cheating is taken very seriously in this class. If you are caught cheating on a quiz, you will be issued ONE warning. After that, you will be asked to leave and will receive a failing grade for the class. There will be NO warnings if you're caught cheating on an exam. The first instance of confirmed cheating will result in a failure for the class, not just the exam.

Attendance

Your success in this class is directly related to your own efforts. You will be more likely to succeed if you attend class each day and come prepared to contribute. Students are expected to attend and participate in each class; however, attendance will not be counted towards your final grade. Students must request permission to take a make-up exam prior to the exam and only for a very serious reason.

Gear Upload

This is a CT course and requires an upload to Gear. You will be assigned a project to upload and instructions will be provided on the MUonline website and during class.

Important Dates

September 4th, Monday

Labor Day – no classes

October 9th, Monday

Deadline for Professors to Submit Freshmen/Sophomore Mid-Term Grades

October 27th, Friday

Last Day to Drop a Full Semester Individual Course

November 19th – November 26th, Sunday - Sunday

Thanksgiving Break

December 8th, Friday

Last Class Day and Last Day to Completely Withdraw for Semester

FINAL EXAM

Friday, December 15th, from 8:00 a.m. until 10:00 a.m.