

Updated 07/18/2023



WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Foundations of Math Reasoning

MATH_0308_L005

Lorraine Stansel

NOTE: This is a 16-week course.

NOTE: This is a Face-to-Face course.

NOTE: This course is linked to MATH 1332.L005.

NOTE: This linked pair is for a NON_STEM pathway.

Course Description:

From the MCC Course Catalog:

“Foundations is a quantitative literacy-based course designed to provide students with the skills and conceptual understanding for success in a college-level statistics or quantitative literacy course. It is organized around big mathematical and statistical ideas. Foundations will help students develop conceptual understanding and acquire multiple strategies for solving problems.”

From the Texas Higher Education Coordinating Board’s Lower-Division Academic Course Guide Manual, Spring 2018

“Developmental Mathematics

“The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving.”

Prerequisites and/or Corequisites:

Prerequisites: TSIA or TSIA2 Math score below 950 with a diagnostic level of 3 or 4.

Corequisites: MATH 1332

Course Notes and Instructor Recommendations:

This course meets once a week in a regular classroom and once a week in a computer classroom. Lecturing will occur in both locations!

This course is designed for NON-STEM (Not Science, Technology, Engineering, and Mathematics) majors who are currently enrolled in the linked MATH 1332. Students are expected to participate and stay current in this course as well as the linked MATH 1332 course.

A **personal computer** or laptop with high-speed **Internet** connection is **vital** to completing the homework and any online activities in both courses. Tablets, shared Wi-Fi, and smartphones are not conducive to efficient completion of the course work. Be sure you know where the MCC campus computer labs are located!

Foundations of Math Reasoning
MATH 0308 L005

A handheld calculator, preferably a **TI 30X**, is crucial for exams and some homework questions.

Math tutors are available through [Academic Support and Tutoring](#) . Check general announcements in Brightspace for specific times and ZOOM numbers.

Instructor Information:

Instructor Name:	Lorraine Stansel
MCC E-mail:	lstansel@mclennan.edu
Office Phone Number:	254-299-8883 Leave a clear message with your full name and class meeting time. Email will get a quicker response.
Office Location:	Math Bldg. (MWF) 217 or 225 as needed for computers
Office/Teacher Conference Hours:	MTW: 2:30 – 4:00, Th 2:30 – 3:00 I will also be available via email or by appointment. Please allow 24 to 36 hours for an email response. I probably will not respond during holidays.
Other Instruction Information:	Please use your MCC student email for all correspondence with MCC faculty and staff.

Required Text & Materials:

NO ADDITIONAL TEXT OR ACCESS CODES ARE REQUIRED FOR MATH 0308!!

Additional Tools and Supplies (continue using materials from MATH 1332:

- Easy access to **laptop** or **personal computer** and **reliable** high-speed **Internet**
- Use the **tools & supplies** from **MATH 1332**.
- Six to eight **hours** per week **in addition** to class time for online activities.
- **3-ring** binder with dividers and a healthy supply of notebook paper
- **Flags** or small **sticky notes** for labeling and quick reference
- Easy access to **printer** when needed

MCC Bookstore Website: <http://www.mclennan.edu/bookstore/>

Methods of Teaching and Learning:

The methods for teaching and learning will include lecture, video, classroom practice, and online assignments. Mozilla Firefox and Google Chrome are the preferred browsers for the online portion of this course. Your MATH 1332 online homework requires that specific features be available on your computer or laptop. Follow the instructions from your MATH 1332 professor.

Lecture notes, formula lists, and additional practice are in Brightspace. **WRITE OUT** the notes and formulas – it saves unnecessary printing **AND** it gives your brain a chance to file it and remember it!

If at first you don't succeed (on the homework), **READ** the question **aloud**. By deliberately slowing down, your brain has ample opportunity to access **ALL** the words and process the information.

Artificial Intelligence (AI) applications may seem helpful, but they do not replace actual learning. Occasional in-class opportunities will help ensure your learning progresses appropriately.

Success in any college course or life situation is dependent on several choices. Opportunity for failure increases dramatically with the omission of one or more of these choices:

- Regular and punctual **attendance**, physically and mentally
- Preparation for and **participation** in class activities and discussions
- Conscientious **completion** of all assignments
- Timely and appropriate **questions** over assignments, concepts, & grades
- Basic “good health” **habits**: adequate sleep, appropriate meals, and effective stress management
- Efficient **prioritization** and control of distractions

Course Objectives and/or Competencies:

This course follows a ‘just-in-time’ format and will present topics and materials in relation to the content of the linked MATH 1332 course.

Learning Outcomes from the Texas Higher education Coordinating Board's Spring 2018 Lower-Division Academic Course Guide Manual:

Upon successful completion of this course, students will:

1. Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.
2. Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
3. Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
4. Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
5. Use graphs, tables, and technology to analyze, interpret, and compare data sets.
6. Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

Course Attendance/Participation Guidelines:

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Students who miss class are expected to email the instructor, access any handouts through Brightspace and submit assignments online or at the beginning of the next scheduled class meeting. Students who miss more than one day of class in any given week should contact a Success Coach at <https://www.mclennan.edu/successcoaching/>. Appropriate documentation is expected for extended absences.

Before the 60% point of the semester, a student who is absent for 25% or more of a face-to-face or blended course or who misses 25% or more of assigned work for an online course will be withdrawn from the course with a grade of W. A student may also request to be withdrawn with a grade of W before the 60% point of the semester. After the 60% point of the semester, the student may request to be withdrawn if the student is passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

Foundations of Math Reasoning
MATH 0308 L005

Students may be dropped from the course when 7 absences have been recorded in Brightspace. Students dropped from either MATH 0307 or the linked MATH 0311 will be dropped from **both** courses.

Course Outline or Schedule:

Changes to the following **MATH 0308/1332 tentative** schedule will be announced in class and posted in Brightspace or emailed to students' MCC email addresses. Keep up with your MATH 1332 assignments! A MATH 1332 exam may be scheduled for this course.

Week #	Related to MATH 1332 Content
1-2	Basic Math concepts, Intro to MML & Brightspace
3-4	Prep for Exam 1 Math 1332
5-6	Interest, Prep for Exam 2 Math 1332
7-8	Measurements, Geometry, Conversions, Prep for Exam 3 Math 1332
9-10	Methods of Counting
11-12	Intro to Probability, Prep for Exam 4 Math 1332
13-14	Graphs, Central Tendencies, Correlation, Prep for Exam 5 Math 1332
15	Exam 5 Math 1332 & Prep for Final Exam Math 1332
16	Final Exam in MATH 1332

Course Grading Information:

Grades for this linked MATH 0308 are Credit/Non Credit. A 70% average is required for Credit and will be based on MATH 1332 final grade, attendance in class and conscientious completion of assigned activities according to the following percentages:

70% = your final grade in MATH 1332

15% = points earned in MATH 0308 for in-class or take-home assignments

15% = attendance as recorded in Brightspace

“If you want something done right, do it yourself.” Charles-Guillaume Etienne

Learning is in the ‘doing’ not in the copying. AI is cheating.

Late Work and Make Up Work Policies:

Attendance in this linked course is based on physical attendance in class each day the class meets.

SOME late assignments may be accepted and will be subject to a 10%-per-class-day penalty.

There are **no extra credit** assignments. Keep up with the content.

Students may be withdrawn from the course when 7 absences have been recorded in Brightspace. Students withdrawn from either MATH 0308 or the linked MATH 1332 will be withdrawn from the corresponding linked course.

Contact the instructor for options on absences.

Appropriate **documentation** is expected for extended absences.

Allowing someone else to complete your assignments is, essentially, **cheating. Don't do it.**

Using online math resources (AI) to complete assignments is **cheating. Don't do it.**

Any substantive **changes** in the calendar will be announced in class and in Brightspace.

If you miss a MATH 1332 homework question more than twice, carefully read the explanation, and still don't understand it, email your MATH 1332 professor or me.

Any substantive **changes** in the calendar will be announced in class and in Brightspace.

Student Behavioral Expectations or Conduct Policy:

Students are expected to adhere to the College's **COVID-19 policies & practices**. Health and safety are foremost.

Students are expected to abide by the *General Conduct Policy* in the MCC Highlander Guide Student Handbook: <https://www.mclennan.edu/catalog/policies.html>

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity.

Laptops may be brought to class to facilitate asking and answering questions on assignments.

For safety reasons, minors (children) are **not** permitted to attend college classes.

[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/catalog/policies.html)
(<https://www.mclennan.edu/catalog/policies.html>)

Click on the link above for the complete college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.