

McLennan
C O M M U N I T Y
COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Math for Teachers: Fundamentals of Math II

MATH_1351_55_2022SP

Shanna Jones

NOTE: This is a 16-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

AN EQUAL OPPORTUNITY INSTITUTION

Spring 2022

Course Description:

Fundamentals of Mathematics II is a content mathematics course for those students planning to teach in elementary or middle school or complete the A. A. T. degree. This course builds or reinforces foundational mathematics concepts and skills, including the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking.

Prerequisites and/or Corequisites:

MATH 1314 with a C, or consent of Division Chair.

Course Notes and Instructor Recommendations:

This class is for people who want to teach, so I'm treating it as such. Great teachers:

1. Contribute ideas and questions that facilitate learning.
2. Prepare for class and get work done on time.
3. Participate in group work and support other teachers.
4. Seek new ways of learning and thinking.
5. Communicate respectfully.
6. Manage their time in order to be prompt. You will need 6-12 hours/week to complete your assignments.
7. Utilize schedules and resources to be successful.

Instructor Information:

| | |
|----------------------------------|---|
| Instructor Name: | Shanna Jones |
| MCC E-mail: | ssjones@mclennan.edu (When contacting me through email, include your COURSE NUMBER and FULL NAME.) |
| Office Phone Number: | Cell: 254-262-5227 or Register for Remind Text by texting @m1350mcc to the number 81010 or to (254) 655-1960 |
| Office Location: | Zoom: enter meeting ID: 451 200 8202 Please click this URL to start or join. https://mclennan.zoom.us/j/4512008202 |
| Office/Teacher Conference Hours: | 7:30pm – 8pm T/TH or by appointment |
| Other Instruction Information: | I will communicate through BrightSpace. Check your email regularly to make sure that you don't miss anything. On the first day of the semester, go to Brightspace on the McLennan website and follow the directions for this course. We will be meeting weekly either face to face in room Math 126 or via Zoom at 6pm on Tuesdays and Thursdays. |

Required Text & Materials:

This is an Inclusive Access course. The cost of your course materials were included in your course fee. (If you opted out of the Inclusive Access materials when paying for the class, you will need to purchase a ConnectMath code from the bookstore.)

Extra items:

- Binder/folder – real or electronic – to organize your work
- Non-cell phone, Non-computer Calculator, does not have to be graphing. (Suggest TI-30X from Walmart for about \$12.)
- Scanner or scanner app for your phone (suggest CamScan)
- High-speed Internet and computer

Textbook (Not required):

Mathematics for Elementary Teachers by Bennett, 10th ed; ISBN: 978-0-07-803565-4 A loose-leaf copy can be purchased for a reduced price inside ConnectMath.

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

Methods of Teaching and Learning:

1. You are expected to read your text and complete your activity pages before class.
2. Each class includes group activities. Be here to learn with your group. If you miss, please get notes from someone. I do not copy your groups work or post notes on group work.
3. Assignments will include discussions, activities, homework, article reviews, projects, and tests.
4. **All class work is on Brightspace.**

Course Objectives and/or Competencies:

Prospective teachers successfully completing Fundamentals of Mathematics I will be able to:

1. Apply fundamental terms of geometry to describe two and three dimensional figures.
2. Make and test conjectures about figures and geometric relationships.
3. Use a variety of methods to identify and justify congruency and similarity of geometric objects.
4. Perform geometric transformations.
5. Demonstrate fundamental probability techniques and apply those techniques to solve problems.
6. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
7. Recognize, examine, and utilize the basic principles of describing and presenting data.
8. Perform measurement processes and explain the concept of a unit of measurement.
9. Develop and use formulas for the perimeter, area, and volume for a variety of figures.

Course Outline or Schedule:

Students will be notified by email and an Announcement posted in Brightspace if any changes are made to the schedule. Students will not be penalized.

| Week | Monday | Topic | Due Dates |
|------|--------|---|---|
| 1. | 10-Jan | Class Introduction 7.1 Collecting and Graphing Data | <ul style="list-style-type: none"> All Homework is due each Monday at 11:59pm. Weekly Discussion Board posts are due each Saturday at 11:59pm. Weekly Class Activity is due the day of your class session. Test Reviews are due the day before each test in order to receive extra credit. Test Dates are TBD Final Exam is Optional: If you failed or missed a Unit Test the only way to make it up is to take the Final Exam. |
| 2. | 17-Jan | 7.2 Describing and Analyzing Data | |
| 3. | 24-Jan | 7.3 Sampling, Predictions, and Simulations | |
| 4. | 31-Jan | 8.1 Single-Stage Experiments | |
| 5. | 7-Feb | 8.2 Multistage Experiments | |
| 6. | 14-Feb | 8.3 Counting, Permutations, and Combinations Unit 1 Test | |
| 7. | 21-Feb | 10.1 Plane Figures | |
| 8. | 28-Feb | 10.2 Polygons and Tessellations | |
| 9. | 7-Mar | SPRING BREAK | |
| 10. | 14-Mar | 10.3 Space Figures | |
| 11. | 21-Mar | 11.1 Systems of Measurement | |
| 12. | 28-Mar | 11.2 Area and Perimeter | |
| 13. | 4-Apr | 11.3 Volume and Surface Area Unit 2 Test | |
| 14. | 11-Apr | 12.1 Congruence and Constructions | |
| 15. | 18-Apr | 12.2 Congruence Mappings | |
| 16. | 25-Apr | 12.3 Similarity Mappings 10.4 Symmetric Figures Unit 3 Test | |
| 17. | 2-May | <u>Tessellation Project Due</u> <u>Cumulative Final Exam</u> | |

Course Grading Information:

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

Grading for this course includes:

| | |
|-----------------------|------------|
| Homework | 20% |
| Discussion Boards | 15% |
| Weekly Class Activity | 15% |
| Tests/Projects (4) | 50% |
| <i>*Final Exam</i> | <i>10%</i> |

Discussion Boards: You will have weekly discussion boards ranging from Getting to know you topics, to collaborative problem solving, activities, and article reviews. You are expected to follow the discussion board instructions provided and participate weekly.

Homework: All Homework is assigned via McGraw-Hill Connect and is due each Mondays at 11:59pm.

Homework is graded on accuracy and you have unlimited tries on the homework. Lowest 3 homework grades are dropped.

Weekly Class Activities: Activities will take place either face to face or via Zoom class meetings. You will be given detail instructions and will turn in activities at the end of the class. Lowest 2 Activities grades are dropped. Activities can not be made up.

Tests/Projects: Tests may include an online portion via Brightspace/ConnectMath and a written portion to be submitted via Brightspace. Two of these will be proctored using Proctorio online or taken in person. The other will be taken with me on Zoom.

Final Exam: The final is cumulative and will be administered via Brightspace. The final exam is optional it is how you can replace a missing or low test grade.

- Copying another person's written work, exams, or projects is plagarism/cheating and will earn you a 0. These cases will also be turned in for student disciplinary action.

Late Work, Attendance, and Make Up Work Policies:

- Tests may be made-up for documented illness or school activity only. Otherwise, your comprehensive final can replace your missing test grade.
- Daily work is due on a weekly bases. If not turned in on time you can turn in late. Every day late is a 10% grade penalty. After 5 days, it is a 0.
- Discussion Board and Weekly Class Activities can not be made up and grade will remain a 0.

- Written Work and Projects: I will take work late for a 30% penalty per class day they are late. If you miss class, your assignments are due when you return, not the next class period. If the assignment has been graded and returned to classmates, I will not take your late work.
- **Attendance**: Plan to miss **no more than 20% of** classes.

Student Behavioral Expectations or Conduct Policy:

- Be here to learn.
- Obtain assignments and other materials for classes from which you are absent.
- Seek help when it's needed. Come to my office or email. Go to the Math Lab.
- PUT YOUR PHONE AWAY! It is a distraction!
- We are kind to others in my classroom.

[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)

(<https://www.mclennan.edu/highlander-guide/policies.html>)

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

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COLLEGE

ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu

254-299-8122

Room 319, Student Services Center

Title IX:

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

Go to McLennan's Title IX webpage at www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:

Go to www.mclennan.edu/academic-integrity for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.