Updated 07/18/2023

McLENNAN COMMUNITY COLLEGE

WACO, TEXAS

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**COURSE SYLLABUS**

**AND**

**INSTRUCTOR PLAN**

# Fundamentals of Mathematics II

**Math 1351.010**

**Michelle Moravec**

**NOTE: This is a 16-week course.**

**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 mathematical ideas 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 the Division Chair

**Course Notes and Instructor Recommendations:**

This class is for people who want to teach. Great teachers:

- Manage their time in order to be prompt.
- Utilize schedules and resources to be successful.
- Contribute ideas and questions that facilitate learning and support others.
- Communicate respectfully.

We will learn mathematics in ways that should help you in your teaching, but this is not a class to teach you to teach. That will come later at your university.

**Instructor Information:**


| | |
|---|---|
| Instructor Name: | Michelle Moravec |
| MCC E-mail: | mmoravec@mclennan.edu |
| | Include your COURSE NUMBER and NAME |
| Office Phone Number: | (254) 299-8870 |
| Text: | (254) 587-4001 |
| Office Location: | Math 214 |
| Conference Hours: | M 10:30-11, 12:30-1 |
| | W 12:30-1:30 |
| | F 12:30-2 |
| | Other times by appointment |


Email or text is the best way to reach me. I respond to emails within 24 hours, but weekends will be slower. If you do not get a response within 24 hours, please email again. **Include your name and class when contacting me**.

I will communicate through **Brightspace Announcements** and **your MCC student email**. Check your email regularly to make sure you don't miss anything.

**Required Text & Materials:**

This is an Inclusive Access course. The cost of your course materials was included in your course fee. You will not get a physical or digital code. Your account will automatically be set up when you start the homework.

Required items:

- Calculator or use the one on ConnectMath
- Scanner or scanner app for your phone or use pictures
- High-speed Internet
- Computer
- Webcam and microphone for test proctoring

Text (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/**

**HELP!!**

- If you are having problems with ConnectMath, try a different browser. Then contact their technical support.
- If you are having computer problems, try clearing browsing history. Call MCC's Technical Support at 254-299-8077.

**Methods of Teaching and Learning:**

In class, we will have group and individual problems and lectures. You have online homework and 1 online test. The other three tests will be in class.

**Course Objectives and/or Competencies:**

Prospective teachers successfully completing Fundamentals of Mathematics II 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 the 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 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 reevaluated accordingly, and the student will only receive funding for those courses attended as of the course census date.

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 (4 absences) 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.

**Mrs Moravec's Policy**

Regular attendance is required by the college and is beneficial to the learning process. Attendance will be recorded in Brightspace based on attending class..

- **Students must attend at least 1 class before 1/19 or will be dropped for never having attended class.**
- Students will be withdrawn who have 4 absences or two tests with grades of zero.

**Course Grading Information:**

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

Summary of Graded Work:

| | |
|---|---|
| Homework | 30% |
| Other Assignments | 15% |
| Tests | 55% |

**Course Outline or Schedule**: Changes will be announced in Brightspace class Announcements.

| Monday | Wednesday | Assignments due Sundays at 11:59 pm unless otherwise noted |
|---|---|---|
| 1/13<br>Introduction & Data Graphs | 1/15<br>Measures of Center | • Homework: Data Graphs |
| 1/20<br>**MLK Day** | 1/22<br>Box Plots | • Homework: Stats |
| 1/27<br>Sampling & Simulations | 1/29<br>Probability | • Homework: Sampling<br>• BA: Statistics Article Project |
| 2/3<br>Probability<br>BA: Probability | 2/5<br>Test 1 Review | • Homework: Probability |
| 2/10<br>**Test 1** | 2/12<br>Plane Geometry | Study vocabulary!!!! |
| 2/17<br>Plane Geometry | 2/19<br>2D-Geometry | • Homework: Plane Geometry |
| 2/24<br>2D Geometry | 2/26<br>3D-Geometry | • Homework: 2D-Geometry |
| 3/3<br>3D Geometry | 3/5<br>Pythagorean Theorem<br>**Vocabulary Test** | • Homework: 3D-Geometry |
| **SPRING BREAK** | | |
| 3/17<br>Measurement | 3/19<br>Measurement | • Homework: Pythagorean Thm & Measurement |
| 3/24<br>Perimeter & Area | 3/26<br>Perimeter & Area | • Homework: Perimeter and Area |
| 3/31<br>Test 2 Review | 4/2<br>**Test 2** | |
| 4/7<br>Volume | 4/9<br>Surface Area | • Homework: Volume & Surface Area<br>• BA: Volume vs. SA |
| 4/14<br>Surface Area | 4/16<br>Congruence & Transformations | • Homework: Congruence and Transformations |
| 4/21<br>Similarity | 4/23<br>Similarity | • Homework: Similarity |
| 4/28<br>Symmetry | 4/30<br>Test 3 Review | • Homework: Symmetry<br>• BA: Geometry Project<br>• Test 3 Review |
| 5/5<br>**Final (Test 3)** | | • |

**Other**

- May includes written problems, projects, and classwork.
- Be in class to participate and receive 4 points. If you aren't in class, you receive 0 points. Participation may not be made up, but there are 26 classes x 4 points = 108 points possible..
- Written problems and projects are detailed on Brightspace.

**Homework**

- Assigned within ConnectMath.
- May be reworked until the due date.

**Tests**

- Tests will be given in class.
- There are no retests.
- You may use calculators and blank paper.
- NO notes are allowed.
- You must contact me ASAP if there is an emergency and you miss your exam. Students will not be allowed to take exams late otherwise.

**Late Work and Make Up Work Policies:**

Due dates for all work are listed on the course schedule. Late penalties are listed above.

If you find yourself getting behind schedule, contact me right away to discuss your situation and possible alternatives.

**Student Behavioral Expectations or Conduct Policy:**

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

Display integrity while completing this course.

- Do not cheat yourself of an education.
- You will be responsible for this material on your licensing test and in your classroom.

- On written work and homework, use course notes, outside tutoring, online help, or whatever helps you learn. However, if a student is found to have another person completing assignments or giving assignments to others, the student will be reported for cheating. The grade for that assignment will be a 0.
- Cheating on exams includes any help from any source and will result in a 0.
- Teachers are held to standards, and I expect you to practice those in my classroom to prepare for your career.

**Click Here for the MCC Attendance/Absences Policy**

**(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.

07/02/2024

MCLENNAN COMMUNITY 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 Accommodations (Disability Services) 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

**Title IX:**

Title IX of the Education Amendments of 1972 is a Federal civil rights law that prohibits discrimination on the basis of sex in educational programs and activities that receive Federal funds. 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 a Title IX incident are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465.

Additionally, Title IX provides rights and protections for pregnant and newly parenting students which can include educational accommodations such as excused absences

and the opportunity to make up assignments and tests. Lactation spaces are also available on campus. Please email titleix@mclennan.edu for more information.

MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Faculty and Staff may email titleix@mclennan.edu to submit a report.

Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student may report sexual harassment anonymously by visiting https://www.lighthouse-services.com

Visit McLennan's Title IX webpage at https://www.mclennan.edu/titleix/ to learn more about Title IX protections, reporting, and resources.

**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/

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email (ast@mclennan.edu) by going to our website (https://www.mclennan.edu/academic-support-and-tutoring/)

At our campus, we understand that students face numerous challenges beyond the classroom. That's why we offer Success Coaches who are dedicated to helping you succeed. Our coaches know that life can sometimes get in the way of your educational goals. Through personalized meetings, Success Coaches empower you to overcome obstacles, maximize your potential, and create a clear path to both academic and personal success. Our Success Coaches are ready to help you achieve your dreams! Schedule your appointment today by calling 254-299-8226 or emailing success@mclennan.edu.

College personnel also recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources and other essential resources, we encourage you to contact the CREW - Campus Resources Education Web by calling 254-299-8561 or emailing crew@mclennan.edu.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to https://calendly.com/paulannespantry-mcc/15min.

Success Coaching Services, the CREW, and Paulanne's Pantry are located on the second floor of the Student Services building in Success Coaching Services, suite 249.

The Student Counseling Center offers confidential mental health counseling to currently enrolled students at no charge. Counselors are trained to help students with problems related to personal, social, and emotional concerns. Sessions focus on short-term goals in order to facilitate students college success and adjustment. This service is available to students in person or through Zoom.

Make an appointment to meet with a counselor by visiting the center in the Wellness & Fitness building, room 101, calling 254-299-8210, or emailing counseling@mclennan.edu.

**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/scholarships-and-resources/emergencygrant.html

**MCC Academic Integrity Statement:**

Please view our Academic integrity statement for more information about academic integrity, dishonesty, and cheating. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is

authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

**Minimum System Requirements to Utilize MCC's D2L|Brightspace:**
Go to https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-StaffCommons/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. For more information about your student email account, go to www.mclennan.edu/studentemail.

**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.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- Email Setup for iPhones and iPads
- Email Setup for Androids

**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.

For more helpful information about technology at MCC, go to MCC's Tech Support or email helpdesk@mclennan.edu.

**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.