

McLennan C O M M U N I T Y C O L L E G E

WACO, TEXAS

COURSE SYLLABUS AND INSTRUCTOR PLAN

Fundamentals of Mathematics II

Math 1351.87

Michelle Moravec

NOTE: This is 16-week online 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.

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. Great teachers:

1. Manage their time in order to be prompt.
2. Utilize schedules and resources to be successful.
3. Contribute ideas and questions to group work that facilitate learning and support others.
4. Communicate respectfully.

I will communicate through BrightSpace. Check your email regularly to make sure that you don't miss anything. When emailing or texting me, please include your name and class.

Instructor Information:

Instructor Name:	Michelle Moravec
MCC E-mail:	mmoravec@mclennan.edu
	Include your COURSE NUMBER and NAME
Office Phone Number:	(254)299-8870
Office Location:	Math 214
Conference Hours:	12:30-1:15 in office or via Zoom, many other times by appt. (Just ask.)

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
- High-speed Internet and computer (or use MCC Learning Commons)
- Webcam for testing (or use the computer lab at MCC Learning Commons)

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 have problems understanding the work, read the text, try again, then email me.
- If you are having problems with Connect Math, 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:

Instruction includes videos, notes to be filled in, online homework/quizzes/tests, and projects. Tests are online; some are proctored via Webcam.

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 Outline or Schedule: Changes will be announced on Brightspace.

To-Do List	Due at Midnight On Date Listed
Unit 1: Introduction & 7.1 Data Graphs	Aug. 29: Introduction Post, Graphs SmartBook 7.1 Homework
Unit 2: 7.2 Measures of Center and Box Plots	Sept. 5: Statistics SmartBook Stats Homework
Unit 3: 7.3 Sampling, Prediction, Simulations	Sept. 12: Sampling SmartBook, 7.3 Sampling Homework Statistics Article Review
Unit 4: Ch. 8 Probability	Sept. 19: Probability Homework Probability Written Assignment
Unit 5: Test 1 Review and Test	Sept. 26: Test 1 Review Test 1

Unit 6: 10.1 Plane Geometry (learn vocab)	Oct. 3: Geometry SmartBook 10.1 Homework
Unit 7: 10.2 Two-Dimensional Geometry	Oct. 10: 2D-Geometry SmartBook 10.2 Polygon Homework
Unit 8: 10.3 Three-Dimensional Geometry	Oct. 17: Quizlet Vocabulary Test 10.3 3D Homework
Unit 9: 11.1 Measurement & Pythagorean Th	Oct. 24: Measurement SmartBook 11.1 & Pythagorean Thm Homework
Unit 10: 11.2 Perimeter and Area	Oct. 31: 11.2 Homework Written Assignment: Area Formulas
Unit 11: Test 2 Review and Test 2	Nov. 7: Test 2 Review Test 2
Unit 12: 11.3 Volume and Surface Area	Nov. 14: 11.3 Homework Written Asst: Volume vs. Surface Area
Unit 13: 12.1-12.2 Congruence and Transformations	Nov. 21: Geometry of Motion SmartBook Congruence and Transformations Homework
Unit 14: 12.3 Similarity	Nov. 28: Similarity Homework Geometry Project
Unit 15: 10.4 Symmetry & Test 3 Review	Dec. 5: Symmetry Homework Test 3 Review
Final Exam	Dec. 5: Test 3 with Proctorio or Zoom

Course Grading Information (Including Late Work)

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

- **Written Assignments** 15%
An introductory post and written assignments will count together as 15% of your grade. The late penalty is 10% per day.
- **ConnectMath Homework** 20%
ConnectMath will be accessed through Brightspace. Problems may be reworked, so there is ample opportunity to earn 100s on all work done on time. You may work on them after the due date with a 2% per day penalty.
- **4 Tests and 2 Projects** 65%
 - Test 3 and the Vocabulary Test are proctored via Proctorio.
 - One statistics and one geometry project will be assigned. Complete information is on Brightspace.
 - Late penalty is 20% per day unless you have a doctor's excuse or other circumstances. Be in contact with me ASAP!

Late Work, Attendance, and Make-Up Work Policies:

Attendance will be based on work due dates. An absence will be given if all assignments for the week are incomplete. You will be dropped on the 3rd absence. It is imperative that you communicate with me if you have circumstances affecting your ability to complete work.

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 online course.

- **Do not cheat yourself of an education.**
- **You will be responsible for this material on your licensing test.**
- If a student is found to have another person complete assignments or work with other people on a test, the student will be reported for suspicious behavior.
- If cheating is discovered, then the grade for that assignment will be a 0.

* [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 guidelines specific to this course.



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. For more information about your student email account, go to www.mclennan.edu/student-email.

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](https://support.microsoft.com/en-us/office/set-up-an-outlook-account-in-the-ios-mail-app-b2de2161-cc1d-49ef-9ef9-81acd1c8e234?ui=en-us&rs=en-us&ad=us) (<https://support.microsoft.com/en-us/office/set-up-an-outlook-account-in-the-ios-mail-app-b2de2161-cc1d-49ef-9ef9-81acd1c8e234?ui=en-us&rs=en-us&ad=us>)
- [Email Setup for Androids](https://support.microsoft.com/en-us/office/set-up-email-in-android-email-app-71147974-7aca-491b-978a-ab15e360434c?ui=en-us&rs=en-us&ad=us) (<https://support.microsoft.com/en-us/office/set-up-email-in-android-email-app-71147974-7aca-491b-978a-ab15e360434c?ui=en-us&rs=en-us&ad=us>)

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 Cheat Sheet](#) 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.