

Updated 07/18/2023



WACO, TEXAS

**COURSE SYLLABUS
AND
INSTRUCTOR PLAN**

Fundamentals of Mathematics II

Math 1351.O080

Michelle Moravec

NOTE: This is a 16-week course.

NOTE: This is an Online course.

FUNDAMENTALS OF MATHEMATICS II

MATH 1351.O080

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 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 the 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:	MW 12:30-1 office, Friday by appointment

Required Text & Materials:

This is an Inclusive Access course. The cost of your course materials was 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:

- 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.

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

HELP!!

- If you have problems understanding the work, read the book, 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 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.

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.

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You will be counted absent if you do not complete any of the assignments due in a week by the due date. (You do not have to have everything completed to be counted present, but work not completed is marked late.)

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

To-Do List	Due at Midnight On Date Listed
Unit 1: Introduction & 7.1 Data Graphs	8/28 Introduction Post Graphs SmartBook 7.1 Homework
Unit 2: 7.2 Measures of Center and Box Plots	9/4 Statistics SmartBook Stats Homework
Unit 3: 7.3 Sampling, Prediction, Simulations	9/11 Sampling SmartBook 7.3 Sampling Homework Statistics Article Project
Unit 4: Ch. 8 Probability	9/18 Probability Homework Written Assignment: Probability
Unit 5: Test 1 Review and Test	9/25 Test 1 Review Test 1
Unit 6: 10.1 Plane Geometry (learn vocab)	10/2 Geometry SmartBook 10.1 Homework
Unit 7: 10.2 Two-Dimensional Geometry	10/9 2D-Geometry SmartBook 10.2 Polygon Homework
Unit 8: 10.3 Three-Dimensional Geometry	10/16 Quizlet Vocabulary Test 10.3 3D Homework
Unit 9: 11.1 Measurement & Pythagorean Th	10/23 Measurement SmartBook 11.1 & Pythagorean Thm Homework
Unit 10: 11.2 Perimeter and Area	10/30 11.2 Homework Written Assignment: Area Formulas
Unit 11: Test 2 Review and Test 2	11/6 Test 2 Review Test 2
Unit 12: 11.3 Volume and Surface Area	11/13 11.3 Homework Written Assignment: Volume vs. Surface Area
Unit 13: 12.1-12.2 Congruence and Transformations	11/20 Geometry of Motion SmartBook Congruence and Transformations Homework
Unit 14: 12.3 Similarity	11/27 Similarity Homework Geometry Project
Unit 15: 10.4 Symmetry & Test 3 Review	12/4 Symmetry Homework Test 3 Review
Final Exam	TUESDAY 12/5 Test 3 with Proctorio or Zoom

Course Grading Information:

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

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- **Written Assignments 10%**
An introductory post and 3 written assignments will count together as 10% of your grade. The late penalty is 10% per day.
 - **ConnectMath Homework 25%**
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 Respondus.
 - 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 and Make Up Work Policies:

Policies are addressed in the grading section above.

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 additional guidelines specific to this course.

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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 2542998122 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 acting Title IX Coordinator at titleix@mclennan.edu or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. 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 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/>

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/>).

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 either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing crew@mclennan.edu or a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Both are located in the Completion Center located on the second floor of the Student Services Center (SSC) which is open Monday-Friday from 8 a.m.-5 p.m.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to https://mclennan.co1.qualtrics.com/jfe/form/SV_07byXd7eB8iTqJg. Both the Completion Center and Paulanne's 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. 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-teachingandlearning/FacultyandStaffCommons/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 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.