

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

WACO, TEXAS

COURSE SYLLABUS AND INSTRUCTOR PLAN

College Math Readiness

NCBM-0100-305

Yumei Wu

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:

NCBM 0100 provides support for college level math skills focusing on the study of topics matching those of the corresponding college level math course. Available support will be described in the Brightspace course for this class.

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Passing the math portion of the THEA test or MCC's placement test and/or completing either two years of high school math including Algebra I or passing MCC's Math 0307, Beginning Algebra.

Instructor Information:

Instructor Name: Yumei Wu

MCC E-mail: ywu@mclennan.edu

Office Phone Number: 254-299-8809

Cell Phone Number: 254-366-7857

Office Location: Math212

Office/Teacher Conference Hours: Monday & Wednesday 2:00pm-4:00pm via zoom.

The appointment can be made for assistance outside of the regular office hour.

Zoom meeting ID: 2542998809

<https://mclennan.zoom.us/j/2542998809>

[click here to join me in the meeting](#)

Required Text & Materials:

Title: Thinking Mathematically

Kit: MyMathLab Student Access Kit (Standalone) [MCC Bookstore Website](#)

Author: Robert Blitzer

Edition: 7th

Publisher: Pearson

ISBN: 978-0-321-86732-2

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



TI 83/84 Graphing Calculator Required

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

Methods of Teaching and Learning:

The following methods for teaching and learning will be used: F2F lecture two days in each week, I will have class every Monday and Wednesday at 09:35am. You shall have online homework and quizzes, your four major exams will be in the classroom, you will be informed ahead. A three pronged approach is used in this course. For each instructional unit a blank lecture notes or powerpoint, complete lecture notes and video recording of the lecture notes worked will all be available on the website companion to this class in Brightspace. Students are required to meet via two-way video (using Zoom video conferencing) with the instructor at least twice during the semester. These conferences are used to complete the discussion and verify student identity. Students will be instructed on how to use the zoom program from their smart phone, tablet, computer with camera/mic, or on campus using the technology equipment available for student use at MCC.

Students will be required to read section or chapter (in To-Dos) and to view videos from <https://brightspace.mclennan.edu/d2l/login> for further review and learning enhancement prior to the homework. All students will be required to submit homework on MyMathLab (must score at least 70% to receive credit). Reviews are provided for exams, there is credit for each as part of the homework. Active participation in the course (asking questions, answering questions based on reading and lecture through internet) leads to improved test scores, rendering extra credit unnecessary.

Course Objectives and/or Competencies:

1. Apply the language and notation of sets.
2. Determine the validity of an argument or statement and provide mathematical evidence.
3. Solve problems in mathematics of finance.

4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.

Course Outline or Schedule:

This is a TENTATIVE weekly schedule. Changes will be announced in class and/or in the student's online announcement portal. Course objectives are indicated beside each test.

Week #1	Sec 1.1	Inductive and Deductive Reasoning
	Sec 1.2	Estimation, Graphs, and Mathematical Models
	Sec 1.3	Problem Solving
Week #2	Sec 2.1	Basic Set Concepts
	Sec 2.2	Subsets
	Sec 2.3	Venn Diagrams and Set Operations
	Sec 2.4	Set Operations and Venn Diagrams
Week #3	Sec 2.5	Venn Diagrams with Three Sets
		Quiz + Review
Week #4	Test 1	Exam I over Chapters 1 and 2
	Sec 3.1	Compound Statements and Connectives
	Sec 3.2	Truth Tables for Negation, Conjunction and Disjunctions
Week #5	Sec 3.3	Truth table for negation
	Sec 3.5	Equivalent Statements and Conditional Statements
	Sec 3.6	Negations of conditional Statements and DeMorgan's Laws
Week #6	Sec 8.1	Percent, sales Tax, and Income Tax
	Sec 8.2	Simple Interest
	Sec 8.3	Compound Interest
Week #7	Sec 8.4	Annuities, Stocks, and Bonds
	Sec 8.5	Installment Loans, Amortization, and Credit Cards
	Sec 9.1	Measuring Length and the Metric System
Week #8	Test 2	EXAM II over Chapters 3 & 8
	Sec 9.2	Measuring Area and Volume
	Sec 9.3	Measuring Weight and Temperature
Week #9	Sec 10.1	Points, Lines, Planes, and Angles

	Sec 10.2 Sec 10.3	Triangles Polygons, Perimeter, and Tessellations
Week # 10	Sec 10.4 Sec 10.5 Sec 11.1	Area and Circumference Volume The Fundamental Counting Principle
Week #11	Test 3 Sec 11.2 Sec 11.3	EXAM III over Chapters 9 & 10 Permutations Combinations
Week #12	Sec 11.4 Sec 11.5 Sec 11.6	Fundamentals of Probability Probability w/ Counting Principle, Permutation, & Combinations Events Involving Not and Or; Odds
Week #13	Sec 12.1 Sec 12.2 Sec 12.3	Sampling, Frequency Distributions, and Graphs Measures of Central Tendency Measures of Dispersion
Week #14	Sec 12.4 Sec 12.5 Sec 12.6	Normal Distribution Problem Solving with the Normal Distribution Scatter Plots, Correlation and Regression Lines
Week #15	Test 4	Review & EXAM IV over Chapters 11 & 12
Week #16	FINALS	FINAL May 4th, 2022, Wednesday, 9:35am-11:35am

Course Grading Information:

Grading for this course will have 4 components: Homework, Quizzes, Exams and comprehensive Final

Homework	25%
Quizzes	15%
Discussion	3%
Exams (4) + Final Exam	57%

Having someone else do your online homework assignment and cheating on a test are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action.

Late Work, Attendance, and Make Up Work Policies:

Due dates for online homework is clearly communicated, they are all due on 5/1/2022, Sunday, 11:59pm. But you must complete each section up to 70% in order to be able to access the next section. You have a quiz for each chapter. The date is announced one week earlier and there is a prerequisite: you must complete the chapter homework up to 70% to do the quiz, otherwise the quiz is locked to you. And Quiz only lasts for a day. One lowest Quiz grade is dropped by the end of the semester. The lowest unit test grade will be dropped. For this reason, makeup tests are not given. A missed test will be recorded as a 0 and the lowest test grade will be dropped at the end of the semester. If a student is aware of a future absence on a test date, they may ask to arrange to take the test early.

Attendance is taken in the classroom once per week.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor. Students should demonstrate an attitude that seeks to take full advantage of the education opportunity. For more details of College Conduct Policy, see the Highlander Student Guide. Having someone else do your online homework assignment and tests are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action. Students should keep careful notes of all work done in class and have them available for the instructor's review when requested.

*** [Click Here for the MCC Academic Integrity Statement](http://www.mclennan.edu/academic-integrity)**

(www.mclennan.edu/academic-integrity)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

[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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C O M M U N I T Y

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.