



WACO, TEXAS

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## **COURSE SYLLABUS**

**AND**

## **INSTRUCTOR PLAN**

**Contemporary Liberal Art**

**Math - 1332 – 05**

**9:35am-10:55am MW, Math102**

**Yumei Wu**

**NOTE: This is a F2F 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.

Greetings Liberal Arts Students! On the next pages you will find the syllabus.

Please read it carefully. **Try to complete the steps below by 4pm Monday 01/10/2022**

Step	Action
1.	Insure that you correspond with me using your MCC email address. Any trouble to access, please contact MCC tech support 254-299-9077 or <a href="mailto:helpdesk@mclennan.edu">helpdesk@mclennan.edu</a>
2.	Access website Brightspace, you login at <a href="https://brightspace.mclennan.edu/d2l/login">https://brightspace.mclennan.edu/d2l/login</a> , click Math1332 Contemporary Liberal Arts Math Fall2021, on the top row, you shall see Announcement, Content, Discussion and more. Find To-Dos in Announcement weekly, access Content, where you shall visit and work all the time for homework, grades, quizzes, videos, and more. Discussion, you work on the signed discussion. Classlist, where to find your classmates. Assessment, and more.
3	<p>Send an email from your MCC email to my email address <a href="mailto:ywu@mclennan.edu">ywu@mclennan.edu</a> with <b>Subject: use your class, for example: 1332-05.</b> (you always use the same subject them email me in this semester)</p> <p>Verify the following:</p> <ol style="list-style-type: none"> <li>1. Begun course by clicking on Content tab in <a href="https://brightspace.mclennan.edu/d2l/login">https://brightspace.mclennan.edu/d2l/login</a> .</li> <li>2. Check the announcement in Brightspace, you find To-Dos for the first week, the orientation video.</li> <li>3. Introduced yourself on the discussion tab.</li> <li>4. Locate the assignments in Brightspace-Content-MyLab Math Student Link- All MyLab Math Assignment and work on the first one.</li> <li>5. Understand the due dates do not mean you should start the assignments on that day but complete them by then.</li> <li>6. Understand the build in opportunites for managing your grade-such as taking the unti tests twice, working homework problems as much as needed until you make 100%, but you must complete up to at leasdt 70% the assignment in order to access the next assignment.</li> <li>7. Know you will use the Zoom program to complete your video conference orientation and proctored final exam and that this require WiFi access and a computer with camera and mic or a smart phone or tablet or a campus visit.</li> <li>8. Zoom meeting ID: 2542998809</li> <li>9. Homework and Quizzes are posted in Mylab &amp; Mastering Links.</li> <li>10.All the tests are taken in the classroom.</li> </ol>

**Course Description:**

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

**Prerequisites and/or Corequisites:**

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.

**Course Notes and Instructor Recommendations:**

Math 1332 in Face to Face and zoom meetings as well as mandatory online discussions. We meet in Math126 in person on each Monday and Wednesday at 9:35am. Online homework assignments and reviews and Quizzes will be located in Content through <https://brightspace.mclennan.edu/d2l/login> and as well as lecture videos for all the sections and ancillaries will be located in Content. There are reviews for tests and numerous other learning aids available also in Content, such as, PowerPoint slides for each section, e-book, formulas and some tips for graphing calculator will be located in Content. To-Dos for each week constantly will be posted and keeps you informed through Announcement in Brightspace. You should check your email and announcement constantly for not missing any assignment.

**Instructor Information:**

Instructor Name: Yumei Wu

MCC E-mail: [ywu@mclennan.edu](mailto: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

**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.

**Students successfully completing Liberal Arts Mathematics should be able to:**

1. Solve problems using critical thinking and reasoning skills.
2. Evaluate and appreciate the structure, beauty, power of logic and deductive reasoning.
3. Utilize various strategies (making a drawing, table, graph, etc) for problem solving.
4. Compute loan payments, credit card charges, mortgages, and investments.
5. Real world analysis of data and information using probability and statistics to summarize, interpret, or predict.
6. Graph and interpret data in appropriate form to present a visual relationship of data sets in real life.
7. Introductory treatment of sets, logic, number systems, number theory, relations, or functions.
8. Using technology to enhance algebraic and statistical concepts.

**Study Habits and Course Structure:**

1. Depending on your level of knowledge coming into the course, you may need to plan on 9 hours a week working on this class.
2. This work will include reading assignments, working on homework, watching streaming videos, asking and answering questions on the online discussion board and taking tests.

3. You should work all assigned problems, check the answer, email or post on the discussion board any questions or problems you are having. I will try to respond to all emails within 24 hours with the exception, possibly, of holidays and weekends.

4. In addition to the power points, streaming videos and lecture notes, you can find information regarding specific homework questions under the **homework help** button in each unit. You may want to access this button while you are working online homework if you run into problems. Please interact with your classmates by posting unit questions on the discussion board.

### **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.

<b>Week #1</b>	Sec 1.1	Inductive and Deductive Reasoning
	Sec 1.2	Estimation, Graphs, and Mathematical Models
	Sec 1.3	Problem Solving
<b>Week #2</b>	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
<b>Week #3</b>	Sec 2.5	Venn Diagrams with Three Sets
		Quiz + Review
<b>Week #4</b>	<b>Test 1</b>	<b>Exam I over Chapters 1 and 2</b>
	Sec 3.1	Compound Statements and Connectives
	Sec 3.2	Truth Tables for Negation, Conjunction and Disjunctions
<b>Week #5</b>	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
<b>Week #6</b>	Sec 8.1	Percent, sales Tax, and Income Tax
	Sec 8.2	Simple Interest
	Sec 8.3	Compound Interest
<b>Week #7</b>	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
<b>Week #8</b>	<b>Test 2</b>	<b>EXAM II over Chapters 3 &amp; 8</b>

Contemporary Liberal Art

Mathematics & 1332-05

	Sec 9.2	Measuring Area and Volume
	Sec 9.3	Measuring Weight and Temperature
<b>Week #9</b>	Sec 10.1 Sec 10.2 Sec 10.3	Points, Lines, Planes, and Angles Triangles Polygons, Perimeter, and Tessellations
<b>Week # 10</b>	Sec 10.4 Sec 10.5 Sec 11.1	Area and Circumference Volume The Fundamental Counting Principle
<b>Week #11</b>	<b>Test 3</b> Sec 11.2 Sec 11.3	<b>EXAM III over Chapters 9 &amp; 10</b> Permutations Combinations
<b>Week #12</b>	Sec 11.4 Sec 11.5 Sec 11.6	Fundamentals of Probability Probability w/ Counting Principle, Permutation, & Combinations Events Involving Not and Or; Odds
<b>Week #13</b>	Sec 12.1 Sec 12.2 Sec 12.3	Sampling, Frequency Distributions, and Graphs Measures of Central Tendency Measures of Dispersion
<b>Week #14</b>	Sec 12.4 Sec 12.5 Sec 12.6	Normal Distribution Problem Solving with the Normal Distribution Scatter Plots, Correlation and Regression Lines
<b>Week #15</b>	<b>Test 4</b>	<b>Review &amp; EXAM IV over Chapters 11 &amp; 12</b>
<b>Week #16</b>	<b>FINALS</b>	<b>FINAL May 4<sup>th</sup>, 2022, Wednesday, 9:35am-11:35am</b>

**Course Grading Information:**

This course will use a variety of internal and external assessments to the core objectives of critical thinking, communications, and empirical/quantitative analysis.

- **Critical Thinking:** Students will use inductive and deductive reasoning, explore problems using logical process of inquiry, analysis evaluation and synthesis. Assessments will include discussion, independent practice, collaborative experience, instructional technology, or comprehensive final.
- **Communications:** Students will submit written assignments involving small research via internet or newspapers on Real World information. They will share with their instructor and/or class via written, oral, and/or visual methods. Assessments will use at least one of the following: board work, class time explanation, case study presentation, poster board presentation, and small group

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presentation. The evaluation process will use a departmental rubric for communication assessment.

- **Empirical/Quantitative:** Students will work on various mathematical problem solving skills throughout the course. The course focuses on the manipulation and analysis of numerical data or observable facts. These maybe presented in application problems and problem skill sets in which students demonstrate their ability to reach informed conclusions using the mathematical process. Assessment will include discussion, independent practice, collaborative experience, or instructional technology to include questions from a departmental test bank and/or the CAAP test.

**Rubric for Communications:**

Course name/number/section:
Student name/number:
Type of Communication Event:
___ Board work
___ Class time explanation
___ Personal interview
___ Case study presentation
___ Poster board project presentation
___ Small group presentation
___ Online presentation



# Contemporary Liberal Art

## Mathematics & 1332-05

IN WRITTEN LANGUAGE	4 Student demonstrates <b>full knowledge with no mistakes</b> and elaborates on mathematical concepts.	3 Student demonstrates <b>good knowledge</b> but does not elaborate.	2 Student demonstrates <b>limited knowledge</b> but makes <b>several mistakes</b> .	1 Student does <b>not have a grasp</b> of the mathematical information.
IN ORAL LANGUAGE	4 Student uses <b>fluent and accurate</b> words to describe mathematical concepts and processes.	3 Student uses <b>somewhat appropriate</b> words to describe mathematical concepts and processes.	2 Student uses <b>vague words</b> to describe mathematical concepts and processes.	1 Student uses <b>incorrect and confusing words</b> to describe mathematical concepts and processes.
IN VISUAL PRESENTATION	4 Student uses <b>appropriate and accurate</b> visual representation of mathematical concepts and processes.	3 Student uses <b>somewhat appropriate</b> visual representation of mathematical concepts and processes.	2 Student uses <b>some inaccuracy in visual</b> representation of mathematical concepts and processes.	1 Student uses <b>total inaccuracy in</b> visual representation of mathematical concepts and processes.

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](http://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. Regular and punctual attendance is expected of all students, and each instructor will maintain a complete record of attendance for the entire length of each course, including online and hybrid courses. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades. In the case of online and hybrid courses, attendance will be determined in terms of participation, as described in the course syllabus.

# McLennan

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# COLLEGE

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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](http://www.mclennan.edu/disability).

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

[disabilities@mclennan.edu](mailto: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](mailto: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/](http://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](mailto: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](https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf).

**MCC Academic Integrity Statement:**

Go to [www.mclennan.edu/academic-integrity](http://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](mailto: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.