

McLennan

C O M M U N I T Y

COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Elementary Statistical Method

Math - 1342 – Sec 51

INSTRUCTOR NAME

NOTE: This is a 16-week course.

NOTE: This is a Face-to-Face Class

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:

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Provides a study of statistical description of frequency distributions, both binomial and normal; estimation of parameters; tests of hypotheses; linear regression and correlation; independence of variables by Chi Square analysis; and an introduction to statistics software package.

Prerequisites and/or Corequisites:

Prerequisite: TSI math complete or MATH 0308 or completion of college-level math course or consent of division chair.

Course Notes and Instructor Recommendations:

This course a face-to-face class with Monday being in classroom and Wednesday night is a Zoom class. To be successful in this course:

- Students should attend every class and Zoom class to maximize the time to absorb the material and ask questions
- Students should take notes during class to facilitate completing the homework assignments
- Students should complete homework as soon as material is learned by
 - On line videos by instructor
 - Completed Notes from videos
 - Publisher's videos
- Students should investigate MyMathLab for Blank Notes, Instructor Videos and preparations for exams to be fully prepared for exams
- Students should visit during Zoom office hours or e-mail concerns regarding the course as soon as problem exists...not at the end of the semester.
- Email any concerns, suggestions, ideas to awlazlinski@mclennan.edu as promptly as possible if:
 - Personal commitments have caused you to get behind the schedule
 - Additional time needed to complete weekly assignments
 - Personal provider problems causing delays
 - Issues with the program

Please use proper and professional email etiquette by using the ***subject line*** to announce: **Math 1342 Sec 51** and your closing to have **your full name** for quick

- response to email. Use only the McLennan Community College student email to correspond so that we can both be safe.

- **All correspondence must be using McLennan Community College e-mail!!!!**

Instructor Information:

Instructor Name: Alma G. Wlazlinski
MCC Email: awlazlinski@mclennan.edu
Office Phone Number: (254) 299-8871 for voice mail only
(254) 652-1129 for text message
Office Location: Math Bldg Room 220
Office/Teacher Conference Hours: Monday/Wednesday: 5:00pm – 6:00pm
Room 205 or Zoom
Zoom Meeting ID: **978 5409 6473**
Tuesday/Thursday: 1:00 pm to 2:00 pm
Zoom Meeting ID: **958 7514 8622**
Friday: Zoom meeting by appointment made by email
Other Instruction Information: Dedicated time for email reading is from 6 pm – 8:30 pm on Tuesday/Thursday

Required Text & Materials: This is an IA course where no textbook or course ID needed

Title:

Author:

Edition:

Publisher:

ISBN:

Need is:

1. A personal computer or access to a computer with camera for Zoom classes with a good internet provider for 4 months minimum and complete .pdf worksheets found on Brightspace
2. Writing instrument and paper
3. TI 84E graphing calculator, if you have a smart phone you can purchase access through [APPS] or Store function and look for wabbit.com to download for about \$6.00 the TI 84 (the free download will not take care of all the features of the TI 84) If you have a TI Inspire, you will have to google the steps in using
4. A determined dedication to complete this course with a good attitude that ill not allow “**I will never need this material**” from creeping in.

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

Methods of Teaching and Learning:

This is a face-to-face course with lessons and activity sheets may be incorporated to assist the learning.

- **Expectations:** Students should communicate any concerns when they arrive either in class or via email
- **Activities:** To insure material is explained well and understand, some sort “Check for Understanding” worksheets will be utilized and completed in class
- **Lecture Notes:** Students should take notes to insure their understanding of the material and to assist as reference.

Course Objectives and/or Competencies:

- Expose students to solving equations
- Prepare students to solve real world problems using Polya’s 4 steps of problem solving
- Be able to construct and solve percentage problems
- Graph on a coordinate system
- Construct and identify components of a linear equation
- Become aware of usages of probability and counting principles

Course Outline or Schedule:

Week	Course Schedule
Week #1	Syllabus review Calculator Worksheet Lesson Sec 1.1 Statistics and Critical Thinking Lesson Sec 1.2 Types of Data
Week #2	Lesson Sec 1.3 Collecting Sample Data Technology Activity Lesson Sec 2.1 Frequency Distributions and Organizing Data
Week #3	Lesson Sec 2.2 Histograms Lesson Sec 2.3 Graphs that enlighten and Graphs that Deceive
Week #4	Lesson Sec 2.4 Scatterplots, Correlation, and Regression Lesson Sec 3.1 Measures of Center Lesson Sec 3.2 Measure of Variations ***On-Line Unit I Exam opened over Chapters 1 & 2
Week #5	Critical Thinking Sec 3.1 Lesson Sec 3.3 Measures of Relative Standing, Boxplots Worksheets Sec 3.3 & Sec 3.3A

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	Lesson Sec 4.1 Basics of Probability ***On-Line Unit I Exam DUE
Week #6	Lesson Sec 4.2 Addition and Multiplication Rule Lesson Sec 4.3 Compliments and Conditional Probability ***Review for Unit II Exam over Chapters 3 &4
Week #7	***Unit II Exam over Chapters 3 & 4 On-Line Lesson Sec 5.1 Probability Distributions Lesson Sec 5.2 Binomial Probability Distributions Technology Activity
Week #8	Lesson Sec 6.1 Standard Normal Distribution (with handout) Lesson Sec 6.2 Applications of normal distribution Worksheet Sec 6.2 Technology
**** Spring Break during the week March 7th through 11th ****	
Week #9	Lesson Sec 6.3 Sampling Distributions and Estimators Lesson Sec 6.4 Central Limit Theorem Worksheet Sec 6.4 ***Review for Unit III Exam over Chapters 5 & 6
Week #10	***Unit III Exam over Chapters 5 & 6 Lesson Sec 7.1 Estimating Population Proportions Lesson Sec 7.2 Estimating Population Means Worksheet Sec 7.1 & 7.2
Week #11	Lesson Sec 8.1 Basics of Hypothesis Testing Lesson Sec 8.2 Testing a Claim about a Proportion Worksheet Sec 8.1 and 8.2 Lesson Sec 8.3 Testing a Claim about a Mean
Week #12	Lesson Sec 8.4 Testing a Claim about a Standard Deviation or Variance Activity Sec 8.3 & 8.4 Lesson Sec 9.1 Two Proportions
Week #13	Lesson Sec 9.2 Two Means: Independent Samples Lesson Sec 9.3 Two Dependent Samples (Matched Pairs) Lesson Sec 9.4 Two Variances or Standard Deviations ***Unit IV Exam Chps 7, 8, & 9 on line
Week #14	***Unit IV Exam Chps 7, 8, & 9 DUE****
Week #15	Review for Final Exam
Week #16	Per request for Proctored Final Exam on Monday May 3rd to May 5th

Course Grading Information:

There are 4 components to the course grade:

Grade Distribution

Homework on MML (Brightspace)	20%
Activities	10%
Exam (on-line on MML)	40%
<u>Final Exam (Proctored in class)</u>	<u>30%</u>
	100%

Homework: To take Unit I Exam on-line, all homework for Chapters 1 & 2 must be completed
 For Units II, III, and IV all sections will be closed at the date of the Unit Exam
 Homework allows for the needed practice/drill and discussions over the material being learned. All homework assignments must have a minimum grade of 75 to continue to the next objective. Three of the lowest homeworks will be dropped at end of semester for the times when life happens.
 This component will be worth 20%

Worksheets/Activities: These in-class paper exercises are to insure the use of technology and/or lesson material being discussed in class. Class notes and sometimes colleague assistance will be allowed for completion of the worksheets. Grading will occur and two (2) lowest or missed worksheets will be dropped due to bad day, or absences. There will be some Metacognition exercises to insure you practice self thinking about your dedication to success in this course
 This component will be worth 10%

Exams (4 Unit Exams): Assessments of the learning process will be measured by 4 Unit Exams:

- Unit I Exam is over Chapters 1 & 2
- Unit II Exam is over Chapters 3 & 4
- Unit III Exam is over Chapters 5 & 6
- Unit IV Exam is over Chapters 7, 8, & 9 (selected sections from chapters)
- All on-line Exams refer to homework problems and there must be at least a 75 or better grade on homework to take exams.
- This component is worth 40%

Final Exam: This comprehensive exam will cover specific topics outlined in the Review For Final exam. Calculator note card and 5X6 card of any formulas needed will be allowed. This will be administer in class
 This component is worth 30%

Late Work, Attendance, and Make Up Work Policies:

This course was chosen for time offered and other criteria is your personal scheduling. As adults, you have chosen a career goal of education that requires this course to continue. The course outline is pretty clear with due dates vital for learning, discussing and grappling with the material. As stated above, 2 worksheets will be dropped to help you when worksheets are not submitted on due dates as well as 3 lowest homeworks.

If homework assignments not completed by due dates on calendar then an email must be sent to request extended time

Student Behavioral Expectations or Conduct Policy:

- Having someone else do your online assignments is a violation of the academic 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 permanently placed on your transcripts as well as possible college action.
- You must be committed to participating in this course. Communication on homework problems have to be done via e- mail.
 - Because this is a face-to-face class, attendance is vital to participate and learn the required information and activities sheets interactive learning. Following the MCC policy on attendance, if you are absent 8 times, you will be dropped.

[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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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.