



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

**Elementary**

**Statistics**

**Math 1342. 018**

**Holly Webb**

**NOTE: This is a**

**16-week course.**

**NOTE: This is a Face-to-Face course.**



**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; sampling; elementary principles of probability 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 a statistics software package

Semester Hours: 3 (3 lec)

**Prerequisites and/or Corequisites:**

Prerequisite: TSIA2 math complete or MATH 0308 or completion of college-level math course or consent of division chair.

Semester Hours 3 (3 lec)

**Course Notes and Instructor Recommendations:**

The best way to progress through this course is:

1. Attend each class for the full class period.
2. Participate in all activities and discussions.
3. Complete assignments both in-class and out side of class by the due date provided.
4. Make sure you have access to Microsoft office with Excel.
5. Utilize resources on Brightspace including example videos, PDF notes, and notes on Excel.
6. Visit your instructor in person or on zoom during office hours to get help as needed.

Studies have shown that most successful students spend 2-3 hours working outside of class for every hour spent in class. Since this class is worth 3 hours of credit you should expect to spend 6 to 9 hours per week working on this course outside of class time. This time may include; tutoring sessions, online homework, or online tests and quizzes. More time may be necessary if you find that you require more assistance.

**Instructor Information:**

Instructor Name: Holly Webb

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

Office Location: Math, Health and Wellness Building 208

Office Phone: 254-299-8878

Office Zoom: 254-299-8878

Ms. Webb's office hour: See Brightspace for office hour information.

**Required Text & Materials:**

**Access to a computer with reliable internet and Microsoft Excel is required.**

Instructions for free download of Excel and Microsoft Office can be found at the following link: <https://www.microsoft.com/en-us/education/products/office>.

**This is an inclusive access course. Access to Pearson MyStatsLab and the online interactive textbook are included with tuition and fees. You do not need to make other purchases for the course.**

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

**Methods of Teaching and Learning:**

(a face to face course) will meet Monday and Wednesday 1pm-2:25pm. Discussion, activities and assignments will focus on building understanding of the fundamentals of data gathering, analysis and hypothesis testing.

Students should expect to spend much of class time actively engaged in understanding and communicating mathematical ideas through reading, writing, discussion and calculation.

A portion of time in most class periods will be used in learning and practicing mathematical and statistical operations with Microsoft Excel.

**Course Objectives and/or Competencies:**

The following code is used for core objectives in assessing college effectiveness, (ACE).

COM=Communication Skills, CT=Critical Thinking Skills, EQS=Empirical Quantitative Skills

Upon successful completion of this course, students will:

1. Explain the use of data collection and statistics as tools to reach reasonable conclusions. (COM)(CT)(EQS)
2. Recognize, examine and interpret the basic principles of describing and presenting data. (COM)(CT)(EQS)
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics. (EQS)
4. Explain the role of probability in statistics. (COM)(EQS)
5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables. (COM)(CT)(EQS)
6. Describe and compute confidence intervals. (COM)(EQS)
7. Solve linear regression and correlation problems. (EQS)
8. Perform hypothesis testing using statistical methods. (EQS)(CT)

**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

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passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

In this class, there are expectations of doing daily assignments whether you attend class or are absent. There are weekly due dates for assignments.

Make attendance a priority. Students will be dropped from a course if they are absent 25% of the time (a total of 7 absences), or if they fail to show progress on Pearson MyStatsLab by Wednesday September 6.

**Course Outline or Schedule:** Changes to the course schedule will be announced in class and over Brightspace announcement.

Week of	Math 1342
8/21	Orientation  1-1 Stats and Critical Thinking  1-2 Types of Data  1-3 Collecting Data
8/28	Quiz 1  2-1 Frequency distributions  2-2 Histograms  2-3 Graphs
9/4	2-4 Scatter Plots  Quiz 2

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9/4 Labor day Holiday	3-1 Measures of center
9/11	3-2 Measures of Variation  3-3 Measures of relative standing  Quiz 3
9/18	<b>Unit 1 Exam chapters 1,2,3 9/18</b>  4-1 Basic Probability  4-2 Addition and multiplication rule
9/25	4-3 Complements and conditional probability  Quiz 4  5-1 Discrete Probability distributions  5-2 Binomial probability distributions  Quiz 5
10/2	<b>Unit 2 Exam 10/2</b>  6-1 Standard Normal Distribution  6-2 Applications of normal distribution
10/9	6-3 Sampling distributions as estimators  6-4 Using Sampling distribution of means (CLT)

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	6-5 Assessing Normality Quiz 6
10/16	7-1 Estimating Poulation Proportions 7-2 Estimating Population Means 7-3 Estimating Population Standard deviation Quiz 7
10/23	Unit 3 review chapter 6 and 7 <b>Unit 3 Exam 10/25</b>
10/30	8-2 Testing claims about proportions 8-3 Testing claims about means 8-4 Testing claims about standard deviatioins Quiz 8
11/6	9-1 Two proportions 9-2 Two Independent means 9-3 Matched pairs 9-4 Two Variances or Standard deviations Quiz 9
11/13	Unit 4 Exam Review <b>Unit 4 Exam 11/15</b>



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11/20  11/22 Thanksgiving Holiday	Final Exam Review
11/27	Final exam Review
12/6	<b>Final Exam Wednesday, 12/6 1pm-3pm.</b> If you are planning to graduate this semester please let me know so we can schedule your Final exam for an earlier time.

### **Course Grading Information:**

Course Orientation 10%

Online Homework 20%

Chapter Quizzes 15%

Unit Exams (4 of them) 40%

Final exam 15%

**Course Orientation:** The orientation activities are designed to help you succeed in this course. Activities include:

1. Reading the course syllabus and taking a syllabus Quiz.
2. Responding to a class discussion board.
3. Taking a class survey

**Orientation activities can be completed after the due dates with a penalty of 5% per day late.**

This component is worth 10% of course grade.

**Homework:** Homework is to be completed online using Pearson MyStatsLab. **Online homework for each quiz must be completed with at least 70% in order to take the quiz.**

**Homework may be completed after the due date with an overall late penalty of 10% off.**

This component is worth 20% of course grade.

**Chapter Quizzes:** Chapter quizzes are to be completed on MyStatsLab, will be open note and will help you prepare for exams. **All homework for the chapter must be completed with a grade of at least 70% on each section in order to gain access to the chapter quiz.** The lowest three (3) quiz grades will be dropped.

This component is worth 15% of your grade.

**Exams:** There will be four (4) exams for this course. Exams will be timed and proctored in the classroom or testing center for those requiring extended time. Exams are open-note on Pearson MyStatsLab. Exams will cover the material discussed and involve similar questions to homework and quizzes.

**One make-up exam will be allowed during the semester. Contact your instructor if a makeup exam is needed.**

**All homework for an exam must be completed with at least 70% in order to take the exam.**

This component is worth 40% of the course grade.

**Final Exam:** The final exam will be timed and proctored in the classroom or testing center for those requiring extended time. It will be open note and will be completed on MyStatsLab on or before Wednesday Dec. 6. The final exam will be cumulative.

This component is worth 15% of the course grade.

**Late Work and Make Up Work Policies:**

See course grading information for late work policies.

**Student Behavioral Expectations or Conduct Policy:**

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks

to take full advantage of the education opportunity. Students are expected to come to class prepared and with supplies necessary to participate actively in each class meeting.

**[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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Updated 07/18/2023



## **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) 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](mailto: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/](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/>

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](mailto: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](mailto:crew@mclennan.edu) or a Success Coach by calling (254) 299-8226 or emailing [SuccessCoach@mclennan.edu](mailto: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](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](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. 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](http://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](mailto: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](mailto: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.