



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

**MATH 1342.L87**

**Instructor: Jess Collins**

**The courses start May 30 and end August 10**

**Note: These are Online courses**

**NOTE: This course is linked with MATH 0308.L87**

**NOTE: This is an 11-week Summer course.**

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### **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 for frequency distributions; sampling; elementary principles of probability distributions, both binomial and normal; estimation of parameters; tests of hypotheses; linear correlations; and an introduction to the use of a graphing calculator for computations and graphing.

**Access to a computer with reliable internet access is required.**

### **Prerequisites and/or Co-requisites:**

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

**Semester Hours:** 3 (3 lecture)

### **Course Notes and Instructor Recommendations:**

This course is linked with online MATH 0308.L87; topics in this course will be coordinated with the Math 0308 course.

- Make attendance (consistent participation each week) a priority.
- Read the e-textbook and view/study the lecture videos for each section.
- Aim for 100% on your homework to enhance your understanding and your grade.
- Complete online homework with a score of at least 70% before each scheduled exam.

### **Instructor Information:**

Instructor Name: Jess Collins

MCC email: [jcollins@mclennan.edu](mailto:jcollins@mclennan.edu)

Office Phone: 254-299-8176

Office Location: Math 226B

Conference hours: MWF 10:00 – 11:30 am; 4:30 – 7:00 pm  
Tu-Th 9:30 am – 11:00 am; 7:00 – 8:30 pm  
Sat – Sun 5:00 – 7:00 pm

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### **Required Text & Materials:**

**Required: Purchase the MyMathLab access card for this course. It provides access to the electronic textbook and all ancillaries. YOU DO NOT NEED TO PURCHASE THE TEXTBOOK.**

Title: Elementary Statistics

Author: Mario Triola

Edition: 14 (with MyStatsLab student access kit)

Publisher: Pearson

ISBN: 9780134748535

**A TI-83/84 graphing calculator is required to do the mathematical computation and graphing in the course.**

### **E-mail correspondence:**

I will respond to student email within 24 hours for communication received Monday through Saturday. It may be a bit slower response on Sunday, but I will try to respond to each email in a timely fashion. Be sure to contact me with questions and comments that you have about the course; I want to provide the help you need to be successful in the course.

### **Course Objectives and/or Competencies:**

The following abbreviations indicate core objectives in assessing college effectiveness: COM = communication skills; EQS = empirical quantitative skills; CT = critical thinking 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)(CT)
8. Perform hypothesis testing using statistical methods. (EQS)(CT)(COM)

The math department will be assessing the 3 core competencies (Critical Thinking, Communication, Empirical & Quantitative Skills) each fall semester in all of our core courses. We will be using objective testing and oral/written presentations to collect our data.

## INTRODUCTION TO STATISTICS

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**Critical Thinking Skills (CT):** “to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.” This objective is critical to the study and understanding of statistics. Multiple exercises will be provided with each section, chapter exam and the final to allow for critical thinking.

**Communication Skills (COM):** “to include effective development, interpretation and expression of ideas through written, oral, and visual communication.”

Statistics is all about describing samples and populations with numbers. It is a great opportunity to practice communication in mathematics. Each student will have the opportunity to present statistical concepts and interpret results to their classmates and instructor in verbal, written, and visual form. A communication/presentation grade, 10% of the course grade will be assessed for each student. A faculty designed rubric will be supplied to the student and used in assigning part of this grade.

**Empirical and Quantitative Skills (EQS):** “to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.” This objective is at the heart of Math 1342, and we will assess these skills with each homework assignment, exam, and classroom activity.

### Methods of Teaching and Learning:

*Lectures by Video and Power Point presentations; homework assignments from MyLabMath; quizzes from vocabulary and concepts; written problem assignments; short quizzes from videos and e-text.*

In an online class, students need to be persistent in (“attending class”) participating in the learning of mathematical concepts by watching instructional videos, taking notes, discussing, and practicing new skills.

The instruction is given in Brightspace, and homework assignments will be in the homework section of MyLabMath (MLM).

- This online class is for students who are comfortable working with a computer and own a computer or have regular access to a computer with high speed internet.
- This online class is for students who are self-motivated to get their work done on time and able to seek support when needed.
- In this online class, all assignments must be done or the student will not be able to pass the course.
- [www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements))

## INTRODUCTION TO STATISTICS

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Click on this link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L/Brightspace learning management system.

### Course Outline or Schedule:

The following course outline is tentative (subject to change); however, if changes are necessary, they will be posted as announcements in MyLabMath and in Brightspace.

MATH 1342.L87 and MATH 0308.L87 OUTLINE

MATH 0308.L87/MATH 1342.L87  
CO-REQUISITE COURSES  
SUMMER 2023

### TENTATIVE CALENDAR

Week	Dates	Topics	Dev Math Lessons	Stat Lessons
1	May 30 – June 4	Common Fractions	Lesson 1	
		Decimal Fractions	Lesson 2	
		Percent	Lesson 3	
		Percentage Problems	Lesson 4	
2	June 5 – 11	Venn Diagrams	Lesson 5	
		Bar Graphs	Lesson 6	
		Pie Charts	Lesson 6b	
		Statistical Thinking		Lesson 1
		Types of Data		Lesson 2
3	June 12 – June 18	Collecting Sample Data		Lesson 3
		Frequency Distributions	Lesson 7	Lesson 4
		Histograms		Lesson 5
		Deceptive Graphs		Lesson 6

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Week	Dates	Topics	Dev Math Lessons	Stat Lessons
4	June 19 – June 25	Ratio & Proportion	Lesson 8	
		Solving Proportions	Lesson 9	
		Dimensional Analysis	Lesson 10	
		Algebraic Concepts For Solving Linear Equations	Lesson 11	
		Solve Linear Equations	Lesson 12	
5	June 26 – July 2	Interpret and Use Formulas	Lesson 13	
		Geometric Formulas	Lesson 14	
		Statistical Formulas	Lesson 15	
		Averages	Lesson 16	Lesson 7
		Weighted Mean		Lesson 7
		Variation		Lesson 8
6	July 3 – July 9	Percentiles, Boxplots		Lesson 9
		Probability	Lesson 17	Lesson 10
		More Probability	Lesson 18	Lesson 10b
7	July 10 – 16	Probability Distributions		Lesson 11
		Binomial Probability		Lesson 12
		Intro to Linear Relationships	Lesson 19	
		Slope & Intercepts	Lesson 20	
		Scatterplots	Lesson 21	
		Graphs of Linear Relationships	Lesson 22	
Week	Dates	Topics	DevMath Lessons	Stat Lessons
8	July 10 – 16	Correlation	Lesson 23	
		Standard Normal Distribution		Lesson 13
		Applications of Normal Distribution		Lesson 14
		Sampling Distributions		Lesson 15
		Central Limit Theorem		Lesson 16

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9	July 17 – 23	Confidence Intervals		Lesson 17
		Estimating a Population Proportion		Lesson 18
		Estimating a Population Mean		Lesson 19
10	July 24 – July 30	Hypothesis Testing		Lesson 20
		Testing a Hypothesis For Population Proportion		Lesson 21
		Testing a Hypothesis For a Population Mean		Lesson 22
11	July 31 – August 6	Review Final Exam		

## Tentative Exam Dates

Exam #	Date	Topics Covered
1	June 14 – 15	Topics from wk 1 and wk 2
2	July 5 – 6	Topics from wk 3, wk 4, and Wk 5
3	July 26 – 27	Topics from wk 6, wk 7 and Wk 8
Final Exam	August 8	Chapters 3, 4, 5, 6, 7, and 8

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### Course Grading Information:

Grades will be earned as A.....90% - 100%  
B.....80% - 89%  
C..... 70%- 79%  
D .....60% - 69%  
F.....Below 60%

The final grade will be determined from

Quizzes (20%)

MyStatLab Homework (30%)

Exams (40%)

Final Exam (10%)

**Total 100%**

If an Exam is missed, the final exam grade will replace that grade. If more than one exam is missed, then the missed exam grades will be zeros.

If all exams are taken on time, then the Final Exam grade will replace the lowest exam grade (this assumes that the final exam grade is higher than the lowest Exam grade).

### Late Work, Attendance, and Make up Policies:

Homework assignments from each Unit have a specific due date. All assignments must be completed by the due date in order to take the Unit Exam. At the end of the semester, I will drop the three lowest homework grades before averaging your grades. After taking the Unit Exam, previous homework assignments will be reopened for you to complete to increase your grade. You can work the homework assignments as many times as you like, raising your grade on each to 100%.

Exams must be taken on time; you will have at least two days to log in to MyLabMath and take the Unit Exam. You may take each Unit Exam two times if you desire, and I will record the highest grade. Be sure to contact me if there is any difficulty in being able to take the exam in the indicated time window. You will have 90 minutes to take each Unit Exam.

Quizzes and other assignments must be completed by the specified date for the assignment. There will be no makeup for these, but I will drop the two lowest grades before calculating the Quiz average for the course.

The Final Exam will be available for only one day and may be taken only once; you will have two hours to complete the final exam from the time you begin the exam.



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### **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 educational opportunity."*

### **Attendance:**

Since this is an online class, I will keep track of your "attendance" (participation) by your work on assignments, quizzes, and exams. If you complete at least two homework assignments during the week, I will count you present for the week. If you work only one assignment during the week, I will report one absence for the week. If you do not work any homework assignments for the week, I will report two (2) absences. If you accumulate 8 absences, you will be dropped from the course.

**\*[www.mclennan.edu/highlander-guide-2016-17/policies](http://www.mclennan.edu/highlander-guide-2016-17/policies)**

Click on the link above for the college policies on attendance and absences.

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### **COVID 19 Notice:**

McLennan Community College is committed to providing you with every resource you need to reach your academic goals. We are also concerned for your safety. We are working through COVID-19 guidelines to make sure we offer a safe environment for you and our faculty. This will include smaller class sizes to manage social distancing and proper cleaning techniques. You will have the advantage of a physical classroom experience but may also need to work part of the time online as we adjust to limited classroom capacity. This will also allow us the flexibility to move online if so directed by federal, state and/or local COVID 19 guidelines. Faculty and staff are preparing now to ensure that you have the best experience in the midst of these uncertain times.

INTRODUCTION TO STATISTICS  
MATH 1342.L87

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## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### **Course Description:**

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**Access to a computer with reliable internet is required.**

### **Prerequisites and/or Corequisites:**

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

Semester Hours 3 (3 lec)

### **Course Notes and Instructor Recommendations:**

- **This course is linked with online MATH 0308.L88; topics in this course will be coordinated with the Math 0308 course.**
- Make attendance a priority.
- Read the textbook to preview material and gain some understanding before we cover material in class.
- Aim for 100% on your homework to enhance your understanding and your grade.
- Complete online homework with a score of at least 70% before each scheduled exam.

### **Instructor Information:**

Instructor Name: Jess Collins

MCC jcollins@mclennan.edu

Office Phone Number: 299-8176

Office Location: Math 226 B

Office/Teacher Conference Hours: (by email, phone, or ZOOM)

MWF 10:00 - 11:30 am

4:30 – 7:00pm

Tu – Th 9:30 am – 11:00 am

7:00 – 8:30 pm

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MATH 1342.L87

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Sat – Sun 5:00 – 7:00 pm

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Author: Mario Triola

Edition: 13

With MyStatsLab student Access Kit

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Follow the instructions below when contacting me by email:

- Use your School email address...@mclennan.edu
- At the top of your email, indicate the course number and section: MATH 0308.L88
- Clearly express your questions (or comments) about any problems you are having in the course
- Give your first and last Name at the bottom of the email.

This will help me organize and file your questions so that I can email you in a timely fashion.

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

### **Course Objectives and/or Competencies:**

The following abbreviations indicate core objectives in assessing college effectiveness,

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MATH 1342.L87

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MATH 1342.L87

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these skills with each homework assignment, exam and classroom activity.

### **Methods of Teaching and Learning:**

*Lectures by Video and Power Point Presentation; homework assignments from MyMathLab; Quizzes from vocabulary and concepts; written problem assignments; short quizzes from videos, and Exams.*

In an ONLINE class, students need to be persistent in “attending” class and participating in the learning of mathematical concepts by **watching instructional videos, taking notes, discussing, and practicing new skills.**

The instruction is given in Brightspace, and homework assignments will be in the homework section under the **ASSIGNMENTS** button in **MyLab Math (MLM).**

❖ This ONLINE class is for students who are **comfortable working with a computer AND own a computer** or have regular access to a computer with high speed internet.

❖ This ONLINE class is for students who are **self-motivated to get their work done and able to seek support** when needed.

❖ **In this ONLINE class, ALL ASSIGNMENTS MUST BE DONE or the student will not be able to pass the class.**

\* [Click Here for the Minimum System Requirements to Utilize MCC's D2L/Brightspace](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)

([www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements))

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L/Brightspace learning management system.

### **Course Outline or Schedule:**

The following course outline is tentative (subject to change); however, if changes are necessary, they will be posted as announcements in MyMathLab and in Brightspace.

### **MATH 1342.L88 COURSE OUTLINE**

**MATH 0308.L88/ MATH 1342.L88**

**CO-REQUISITE COURSES**

**SUMMER 2022**

**TENTATIVE CALENDAR**

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MATH 1342.L87

Week	Dates	Topics	Dev Lessons	Stat Lessons
1	May 31 – June 5	Common fractions Decimal fractions Percent Percentage Problems Order of Operations	Lesson 1 Lesson 2 Lesson 3 Lesson 3b Lesson 4	
Week	Dates	Topics	Dev Lessons	Stat Lessons
2	June 6 – 12	Venn diagrams, Bar graphs Pie charts Statistical Thinking Types of Data	Lesson 5 Lesson 6 Lesson 6b	Lesson 1 Lesson 2
3	June 13 – 19	Collecting Sample Data Frequency Distributions Histograms Deceptive Graphs	Lesson 7	Lesson 3 Lesson 4 Lesson 5 Lesson 6



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4	June 20 – 26	Ratio & Proportion Solving Proportions Dimensional Analysis Algebraic concepts for solving linear equations Solve Linear Equations	Lesson 8 Lesson 9 Lesson 10 Lesson 11 Lesson 12	
<b>Week</b>	<b>Dates</b>	<b>Topics</b>	<b>Dev Lessons</b>	<b>Stat Lessons</b>
5	June 27 – July 3	Interpret & use formulas Geometric Formulas Statistical Formulas Averages Weighted Mean Variation	Lesson 13 Lesson 14 Lesson 15 Lesson 16	Lesson 7 Lesson 7 Lesson 8
6	July 5 – 10	Percentiles, Boxplots Probability More Probability	Lesson 17 Lesson 18	Lesson 9 Lesson 10 Lesson 10b

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7	July 11 – 17	Probability Distributions Binomial Probability Introduction to Linear Relationships Slope and other characteristics of a Linear Relationship Scatterplots Graphing a Linear Relationship	Lesson 19 Lesson 20 Lesson 21 Lesson 22	Lesson 11 Lesson 12
<b>Week</b>	<b>Dates</b>	<b>Topics</b>	<b>Dev Lessons</b>	<b>Stat Lessons</b>
8	July 18 – 24	Correlation Standard Normal Distribution Applications of Normal Distribution Sampling Distributions Central Limit Theorem	Lesson 23	Lesson 13 Lesson 14 Lesson 15 Lesson 16
9	July 25 – July 31	Confidence Intervals		Lesson 17 Lesson 18

# INTRODUCTION TO STATISTICS

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		Estimating a Population Proportion Estimating a Population Mean		Lesson 19
10	August 1 – 7	Hypothesis Testing Testing a hypothesis for Population Proportion Testing a hypothesis for a Population Mean		Lesson 20 Lesson 21 Lesson 22
11	August 8 - 12	Review Final Exam		
		Final Exam will be available on Monday, August 8 and Tuesday, August 19.		

## Tentative Exam Dates

EXAM #	DATE	TOPICS COVERED
1	June 14-15	Topics from wk 1 and wk 2
2	July 5 - 6	Topics from wk 3, wk 4, and wk 5

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3	July 26 -27	Topics from wk 6, wk 7, and wk 8
FINAL EXAM	August 9 - 10	Chapters 3, 4, 5, 6, 7, and 8

### **Course Grading Information:**

Grades will be earned as A.....90% - 100%

B .....80% - 89%

C .....70% - 79%

D .....60% - 69%

F ..... Below 60%

### **The final grade will be determined from**

Quizzes (20%),

MyStatLab Homework (30%),

Application and Data Problems (10%)

Exams 30%

Final exam (10%)

**Total: 100%**

*If an Exam is missed, the final exam grade will replace that grade. If more than one exam is missed, then the missed exam grades will be zeroes.*

*If all exams are taken on time, then the Final Exam grade will replace the lowest exam grade (this assumes that the final exam grade is higher than the lowest exam grade).*

### **Late Work, Attendance, and Make Up Work Policies:**

*Homework assignments from each Unit have a specific due date. All assignments must be completed with at least a grade of 70% by the due date in order to take the Unit Exam. At the end of the semester, I will drop the lowest grade from each of the Unit homework assignments (three grades will be dropped). After taking the Unit Exam, previous homework assignments will be reopened for you to complete or increase your grade. You can work the homework assignments as many times as you like, raising your grade on each to 100%.*

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*Exams must be taken on time; you will have at least two days to log in and take the Unit Exam. You may take each Unit Exam two times with the first attempt being a Practice Exam and the second attempt resulting in your Unit Exam grade. Be sure to contact me if there is any difficulty in being able to take the exam in the indicated time window. You will have 90 minutes to take each Unit Exam.*

*Quizzes and other assignments must be completed by the specified due date for the assignment. There will be no makeup work for these, but I will drop the two lowest grades before calculating the Quiz average for the course.*

*The Final Exam will be available for only one day and may be taken only once; you will have **two hours** to complete the exam from the time you begin the exam. The final exam score will replace the lowest Unit Exam grade, assuming that it is higher than the Unit Exam score.*

### **Student Behavioral Expectations or Conduct Policy:**

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### **Attendance:**

Since this is an online class, I will keep track of your attendance by your work on homework assignments, quizzes, discussion board, and exams. If you complete at least two homework assignments during the week, I will count you present for the week. If you work on only one assignments during the week, I will report **one absence** for the week. If you do not work on any homework assignments during the week, I will report **two (2) absences** for the week. **If you accumulate 8 absences, you will be dropped from the course.**

\* [Click Here for the MCC Attendance/Absences Policy](#)

([www.mclennan.edu/highlander-guide-2016-17/policies](http://www.mclennan.edu/highlander-guide-2016-17/policies))

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WACO, TEXAS

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**COURSE SYLLABUS AND  
INSTRUCTOR PLAN**

**INTRODUCTION TO STATISTICS**

**MATH 1342.L88**

**An Online 11-week Summer Course**

**Co-Requisite Course with MATH 0308.L88**

**Instructor: Jess Collins**

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MATH 1342.L87

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**An Equal Opportunity Institution**

**Summer 2022**

### **COVID 19 Notice:**

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Office Phone Number: 299-8176

Office Location: Math 226 B

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MATH 1342.L87

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(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)(CT)
8. Perform hypothesis testing using statistical methods. (EQS)(CT)(COM)

The math department will be assessing the 3 core competencies (Critical Thinking, Communication, Empirical & Quantitative Skills) each fall semester in all of our core courses. We will be using objective testing and oral/written presentations to collect our data.

- **Critical Thinking Skills(CT):** “to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information. This objective is critical to the study and understanding of statistics. Multiple exercises will be provided with each section, chapter exam and the final to allow for critical thinking.

- **Communication Skills (COM):** “to include effective development, interpretation and expression of ideas through written, oral and visual communication.”

Statistics is all about describing samples and populations with numbers. It is a great opportunity to practice communication in mathematics. Each student will have the opportunity to present statistical concepts and interpret results to their classmates and instructor in verbal, written and visual form. A communication/presentation grade, 10% of the course grade will be assessed for each student. A faculty designed rubric will be supplied to the student and used in assigning part of this grade.

- **Empirical and Quantitative Skills (EQS):** “to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.” This objective is at the heart of math 1342 and we will assess

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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these skills with each homework assignment, exam and classroom activity.

### **Methods of Teaching and Learning:**

*Lectures by Video and Power Point Presentation; homework assignments from MyMathLab; Quizzes from vocabulary and concepts; written problem assignments; short quizzes from videos, and Exams.*

In an ONLINE class, students need to be persistent in “attending” class and participating in the learning of mathematical concepts by **watching instructional videos, taking notes, discussing, and practicing new skills.**

The instruction is given in Brightspace, and homework assignments will be in the homework section under the **ASSIGNMENTS** button in **MyLab Math (MLM).**

❖ This ONLINE class is for students who are **comfortable working with a computer AND own a computer** or have regular access to a computer with high speed internet.

❖ This ONLINE class is for students who are **self-motivated to get their work done and able to seek support** when needed.

❖ **In this ONLINE class, ALL ASSIGNMENTS MUST BE DONE or the student will not be able to pass the class.**

\* [Click Here for the Minimum System Requirements to Utilize MCC's D2L/Brightspace](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)

([www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements))

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L/Brightspace learning management system.

### **Course Outline or Schedule:**

The following course outline is tentative (subject to change); however, if changes are necessary, they will be posted as announcements in MyMathLab and in Brightspace.

### **MATH 1342.L88 COURSE OUTLINE**

**MATH 0308.L88/ MATH 1342.L88**

**CO-REQUISITE COURSES**

**SUMMER 2022**

**TENTATIVE CALENDAR**

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MATH 1342.L87

Week	Dates	Topics	Dev Lessons	Stat Lessons
1	May 31 – June 5	Common fractions Decimal fractions Percent Percentage Problems Order of Operations	Lesson 1 Lesson 2 Lesson 3 Lesson 3b Lesson 4	
Week	Dates	Topics	Dev Lessons	Stat Lessons
2	June 6 – 12	Venn diagrams, Bar graphs Pie charts Statistical Thinking Types of Data	Lesson 5 Lesson 6 Lesson 6b	Lesson 1 Lesson 2
3	June 13 – 19	Collecting Sample Data Frequency Distributions Histograms Deceptive Graphs	Lesson 7	Lesson 3 Lesson 4 Lesson 5 Lesson 6

# INTRODUCTION TO STATISTICS

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4	June 20 – 26	Ratio & Proportion Solving Proportions Dimensional Analysis Algebraic concepts for solving linear equations Solve Linear Equations	Lesson 8 Lesson 9 Lesson 10 Lesson 11 Lesson 12	
<b>Week</b>	<b>Dates</b>	<b>Topics</b>	<b>Dev Lessons</b>	<b>Stat Lessons</b>
5	June 27 – July 3	Interpret & use formulas Geometric Formulas Statistical Formulas Averages Weighted Mean Variation	Lesson 13 Lesson 14 Lesson 15 Lesson 16	Lesson 7 Lesson 7 Lesson 8
6	July 5 – 10	Percentiles, Boxplots Probability More Probability	Lesson 17 Lesson 18	Lesson 9 Lesson 10 Lesson 10b

# INTRODUCTION TO STATISTICS

MATH 1342.L87

7	July 11 – 17	Probability Distributions Binomial Probability Introduction to Linear Relationships Slope and other characteristics of a Linear Relationship Scatterplots Graphing a Linear Relationship	Lesson 19 Lesson 20 Lesson 21 Lesson 22	Lesson 11 Lesson 12
<b>Week</b>	<b>Dates</b>	<b>Topics</b>	<b>Dev Lessons</b>	<b>Stat Lessons</b>
8	July 18 – 24	Correlation Standard Normal Distribution Applications of Normal Distribution Sampling Distributions Central Limit Theorem	Lesson 23	Lesson 13 Lesson 14 Lesson 15 Lesson 16
9	July 25 – July 31	Confidence Intervals		Lesson 17 Lesson 18

# INTRODUCTION TO STATISTICS

MATH 1342.L87

		Estimating a Population Proportion Estimating a Population Mean		Lesson 19
10	August 1 – 7	Hypothesis Testing Testing a hypothesis for Population Proportion Testing a hypothesis for a Population Mean		Lesson 20 Lesson 21 Lesson 22
11	August 8 - 12	Review Final Exam		
		Final Exam will be available on Monday, August 8 and Tuesday, August 19.		

## Tentative Exam Dates

EXAM #	DATE	TOPICS COVERED
1	June 14-15	Topics from wk 1 and wk 2
2	July 5 - 6	Topics from wk 3, wk 4, and wk 5



## INTRODUCTION TO STATISTICS

MATH 1342.L87

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3	July 26 -27	Topics from wk 6, wk 7, and wk 8
FINAL EXAM	August 9 - 10	Chapters 3, 4, 5, 6, 7, and 8

### **Course Grading Information:**

Grades will be earned as A.....90% - 100%

B .....80% - 89%

C .....70% - 79%

D .....60% - 69%

F ..... Below 60%

### **The final grade will be determined from**

Quizzes (20%),

MyStatLab Homework (30%),

Application and Data Problems (10%)

Exams 30%

Final exam (10%)

**Total: 100%**

*If an Exam is missed, the final exam grade will replace that grade. If more than one exam is missed, then the missed exam grades will be zeroes.*

*If all exams are taken on time, then the Final Exam grade will replace the lowest exam grade (this assumes that the final exam grade is higher than the lowest exam grade).*

### **Late Work, Attendance, and Make Up Work Policies:**

*Homework assignments from each Unit have a specific due date. All assignments must be completed with at least a grade of 70% by the due date in order to take the Unit Exam. At the end of the semester, I will drop the lowest grade from each of the Unit homework assignments (three grades will be dropped). After taking the Unit Exam, previous homework assignments will be reopened for you to complete or increase your grade. You can work the homework assignments as many times as you like, raising your grade on each to 100%.*

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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*Exams must be taken on time; you will have at least two days to log in and take the Unit Exam. You may take each Unit Exam two times with the first attempt being a Practice Exam and the second attempt resulting in your Unit Exam grade. Be sure to contact me if there is any difficulty in being able to take the exam in the indicated time window. You will have 90 minutes to take each Unit Exam.*

*Quizzes and other assignments must be completed by the specified due date for the assignment. There will be no makeup work for these, but I will drop the two lowest grades before calculating the Quiz average for the course.*

*The Final Exam will be available for only one day and may be taken only once; you will have **two hours** to complete the exam from the time you begin the exam. The final exam score will replace the lowest Unit Exam grade, assuming that it is higher than the Unit Exam score.*

### **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." **Be sure to silence your cell phone prior to entering the classroom.***

### **Attendance:**

Since this is an online class, I will keep track of your attendance by your work on homework assignments, quizzes, discussion board, and exams. If you complete at least two homework assignments during the week, I will count you present for the week. If you work on only one assignments during the week, I will report **one absence** for the week. If you do not work on any homework assignments during the week, I will report **two (2) absences** for the week. **If you accumulate 8 absences, you will be dropped from the course.**

\* [Click Here for the MCC Attendance/Absences Policy](#)

([www.mclennan.edu/highlander-guide-2016-17/policies](http://www.mclennan.edu/highlander-guide-2016-17/policies))

Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

INTRODUCTION TO STATISTICS

MATH 1342.L87

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WACO, TEXAS

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**COURSE SYLLABUS AND  
INSTRUCTOR PLAN**

**INTRODUCTION TO STATISTICS**

**MATH 1342.L88**

**An Online 11-week Summer Course**

**Co-Requisite Course with MATH 0308.L88**

**Instructor: Jess Collins**

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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**An Equal Opportunity Institution**

**Summer 2022**

### **COVID 19 Notice:**

McLennan Community College is committed to providing you with every resource you need to reach your academic goals. We are also concerned for your safety. We are working through COVID-19 guidelines to make sure we offer a safe environment for you and our faculty. This will include smaller class sizes to manage social distancing and proper cleaning techniques. You will have the advantage of a physical classroom experience but may also need to work part of the time online as we adjust to limited classroom capacity. This will also allow us the flexibility to move online if so directed by federal, state and/or local COVID 19 guidelines. Faculty and staff are preparing now to ensure that you have the best experience in the midst of these uncertain times.

INTRODUCTION TO STATISTICS  
MATH 1342.L87

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## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### **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; and an introduction to the use of a graphing calculator for computations and graphing.

**Access to a computer with reliable internet is required.**

### **Prerequisites and/or Corequisites:**

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

Semester Hours 3 (3 lec)

### **Course Notes and Instructor Recommendations:**

- **This course is linked with online MATH 0308.L88; topics in this course will be coordinated with the Math 0308 course.**
- Make attendance a priority.
- Read the textbook to preview material and gain some understanding before we cover material in class.
- Aim for 100% on your homework to enhance your understanding and your grade.
- Complete online homework with a score of at least 70% before each scheduled exam.

### **Instructor Information:**

Instructor Name: Jess Collins

MCC jcollins@mclennan.edu

Office Phone Number: 299-8176

Office Location: Math 226 B

Office/Teacher Conference Hours: (by email, phone, or ZOOM)

MWF 10:00 - 11:30 am

4:30 – 7:00pm

Tu – Th 9:30 am – 11:00 am

7:00 – 8:30 pm

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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Sat – Sun 5:00 – 7:00 pm

### **Required Text & Materials:**

**Required: Purchase the MyMathLab access card for this course.** It gives access to the electronic textbook and all ancillaries.

Title: Elementary Statistics

Author: Mario Triola

Edition: 13

With MyStatsLab student Access Kit

Publisher: Pearson

ISBN: 9780134748535

**A TI-83/84 graphing calculator is required to do the mathematical computation and graphing in the course.**

### **Email Correspondence:**

I will respond to student email within 24 hours for communication received Monday through Saturday of each week. It may be a bit slower response on Sunday, but I will try to respond to each email in a timely fashion. Be sure to contact me with questions and comments that you have about the course; I want to provide the help you need to be successful in the course.

**Follow the instructions below when contacting me by email:**

- Use your School email address...@mclennan.edu
- At the top of your email, indicate the course number and section: MATH 0308.L88
- Clearly express your questions (or comments) about any problems you are having in the course
- Give your first and last Name at the bottom of the email.

This will help me organize and file your questions so that I can email you in a timely fashion.

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

### **Course Objectives and/or Competencies:**

The following abbreviations indicate core objectives in assessing college effectiveness,

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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## INTRODUCTION TO STATISTICS

MATH 1342.L87

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MATH 1342.L87

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### **Late Work, Attendance, and Make Up Work Policies:**

*Homework assignments from each Unit have a specific due date. All assignments must be completed with at least a grade of 70% by the due date in order to take the Unit Exam. At the end of the semester, I will drop the lowest grade from each of the Unit homework assignments (three grades will be dropped). After taking the Unit Exam, previous homework assignments will be reopened for you to complete or increase your grade. You can work the homework assignments as many times as you like, raising your grade on each to 100%.*

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*Exams must be taken on time; you will have at least two days to log in and take the Unit Exam. You may take each Unit Exam two times with the first attempt being a Practice Exam and the second attempt resulting in your Unit Exam grade. Be sure to contact me if there is any difficulty in being able to take the exam in the indicated time window. You will have 90 minutes to take each Unit Exam.*

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### **Attendance:**

Since this is an online class, I will keep track of your attendance by your work on homework assignments, quizzes, discussion board, and exams. If you complete at least two homework assignments during the week, I will count you present for the week. If you work on only one assignments during the week, I will report **one absence** for the week. If you do not work on any homework assignments during the week, I will report **two (2) absences** for the week. **If you accumulate 8 absences, you will be dropped from the course.**

\* [Click Here for the MCC Attendance/Absences Policy](#)

([www.mclennan.edu/highlander-guide-2016-17/policies](http://www.mclennan.edu/highlander-guide-2016-17/policies))

Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

## INTRODUCTION TO STATISTICS

MATH 1342.L87

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### **Prerequisites and/or Corequisites:**

*Insert Prerequisite and/or Corequisite information here from MCC Course Catalog*

### **Course Notes and Instructor Recommendations:**

*Insert and course notes or recommendations*

### **Instructor Information:**

Instructor Name:

MCC Email:

Office Phone Number:

Office Location:

Office/Teacher Conference Hours:

Other Instruction Information:

### **Required Text & Materials:**

Title:

Author:

Edition:

Publisher:

ISBN:

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

### **Methods of Teaching and Learning:**

*Examples: Lecture, discussion groups, group projects, field trips, lab exercises, projects, service learning assignments, student performances/presentations, portfolio, written reports/papers, exams, quizzes, simulators, and/or tutorial software.*

### **Course Objectives and/or Competencies:**

*Insert course objectives or competencies here*

### **Course Outline or Schedule:**

*Provide at least a week by week description of lecture or course topics, major tests, major assignment due dates, and other due dates. Include the departmental learning objectives that are included in each test or graded assignment. Warn students if the schedule is subject to change*



## INTRODUCTION TO STATISTICS

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*and tell them how they will be notified about changes (posting information in D2L/Brightspace, announcement in class, etc.)*

### **Course Grading Information:**

*Give details about how students' grades will be calculated in your courses. Include all areas from which the course grade is derived and how much impact each area has on the students' final grades. Describe grading methods such as the use of a point system or weighted/percentage grades.*

*In courses with performance or skill assessments, explain the primary components that contribute to the student's earning a particular grade or attach actual grading sheet or scoring rubric. Include penalties for violations of academic integrity and define those (i.e., give your definition of "cheating," "plagiarism," etc.)*

### **Late Work, Attendance, and Make Up Work Policies:**

*Include late work policies, make-up policies, and other policies specific to the instructor. Be specific about consequences for late work or missing class.*

### **Student Behavioral Expectations or Conduct Policy:**

*Describe the behaviors students are expected to demonstrate in class, lab, clinical, including dress policy and reference to the General Conduct Policy in the Highlander Guide. For example, "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."*

### **[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

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Updated 11/04/2022



## **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-  
2998122

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, (Diversity, Equity & Inclusion/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 from 7:30 am - 6:00 pm Monday through Thursday and 7:30 am - 5:00 pm on Friday. You can contact the Academic Support and Tutoring team via Zoom (<https://mclennan.zoom.us/j/2542998500>) or email ([ast@mclennan.edu](mailto:ast@mclennan.edu)) during the above mentioned times.

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.

**Minimum System Requirements to Utilize MCC's D2L|Brightspace:**

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/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.