*St. Mary Catholic Central*

# *Statistics*

***2019 – 2020***

**Instructor:** Mrs. Alissa Myers amyers@smccmonroe.com

**Class Website:** www.mrsmyersmath.weebly.com

**Textbook:** Elementary Statistics, Larson and Farber. Copyright 2019

**Course Description and Outcome:** In this course, specific topics covered with respect to statistics are mean, median, mode, variance, standard deviation, and distributions. Representing statistics through the use of various graphing techniques are also incorporated. Specific topics covered with respect to probability are random experiments, properties of probability, conditional probability, and independent events. Specific topics covered with respect to statistical inference are confidence intervals, hypothesis testing, correlation and regression, and chi-square tests and F-distributions.

**Course Content**:

 Chapter 1 Introduction to Statistics

 Chapter 2 Descriptive Statistics

 Chapter 3 Probability

 Chapter 4 Discrete Probability Distributions

 Chapter 5 Normal Probability Distributions

 Chapter 6 Confidence Intervals

 Chapter 7 Hypothesis Testing with One Sample

 Chapter 8 Hypothesis Testing with Two Samples

 Chapter 9 Correlation and Regression

 Chapter 10 Chi-Square Tests and the F-Distribution

**Instructional Methods:** This class is a combination of lecture with example problems and discussion and practice through lab work, seatwork, board work, and homework assignments.

**Classroom Policies and Procedures:**

## Tardiness

1. You must be quietly sitting in your assigned seat BEFORE the bell rings – or else you will be marked tardy.

**Absences**

1. If you are absent it is your responsibility to find out what you missed – check the class website, ask a classmate, or ask me.
2. You have one day for each day absent to make up missed work.
3. If a quiz/test is missed, it is your responsibility to make arrangements for make-up (before school, after school, or study hall).

**Classroom Management**

1. Be RESPECTFUL!
2. Raise your hand if you have something to say.
3. Restroom may only be used if it is an emergency.
4. No food, drinks, or backpacks.
5. Any disciplinary action that must be taken will follow the SMCC Behavior Rubric.

## Homework

1. Homework will be assigned daily and will be due the following day at the beginning of class.
2. **The original problem and ALL work must be neatly shown in PENCIL for each problem – just answers will NOT be accepted for credit.**
3. Homework Heading

 **Name**

 **Date**

 **Assignment**

1. Grading homework:
	1. All book work must be done in your notebook/binder. Be prepared to put these problems on the board the next day for a participation grade.
	2. All worksheets will be collected for a grade based on effort and completion. (EX: 5/5 for all problems completed and all work shown).
2. DO YOUR HOMEWORK – it is how you learn!
	1. If you are unprepared for board work – you will lose participation points.
	2. If you turn worksheets in late, you will be given half credit (EX: 2.5/5)
3. Any absent or late homework must be turned in to the MRS. MYERS’ BOX.
4. If you do not understand – GET HELP! I am here to help you ☺
5. Homework can be picked up or passed back from your class’s homework box at any time.

**Supplies** \*BRING EVERYDAY! PLEASE BE PREPARED FOR CLASS!

1. iPad – to be used for textbook, note taking, and supplemental materials
2. Notebook or 3-Ring Binder
3. Loose leaf paper
4. Pencils
5. Red pens
6. Scientific Calculator

## Cheating

1. DO YOUR OWN WORK!
2. If you are caught cheating, you will receive a ZERO on that assignment/test/quiz. You will also be written up.

## Grading

1. See Student Handbook for the grading scale.
2. Quarter Grades

 Tests 50%

 Quizzes 20%

Homework/Projects/Labs 20%

 Participation 10%

**Senior Exam Exemptions**: 90% Semester Average.