GROSSMONT COLLEGE

Official Course Outline

MATHEMATICS 060 – FOUNDATIONS FOR ELEMENTARY STATISTICS

1. Course Number Course Title Semester Units Semester Hours

MATH 060 Foundations for 2 2 hours lecture: 32-36 hours

Elementary Statistics 64-72 outside-of-class hours

96-108 total hours

2. Course Prerequisites

None

Corequisite

Math 160

Recommended Preparation

None

3. Catalog Description

Foundations for Elementary Statisticsfocuses on the skills and concepts needed for success in Elementary Statistics. This course is for students concurrently enrolled in Math 160 at Grossmont College. Students will receive support in Arithmetic, Algebra, problem solving, technology, and study skills. This course is offered on a Pass/No Pass basis only. (Non-degree applicable)

4. Course Objectives

The student will:

a. practice specific skills from arithmetic, algebra, problem solving, study and technology needed to complete Elementary Statistics.

b. gain confidence and persist in problem solving at the college level.

c. Assess and improve their mathematical competency.

d. develop and utilize effective study skills.

5. Instructional Facilities

a. Standard classroom with an abundance of writing space.

b. Projection screen and multimedia computer station with projection capabilities.

6. Special Materials Required of Student

Graphing Calculator and/or statistical software

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7. Course Content

a. Arithmetic Skills

1) Operations with integers, fractions, and decimals

2) Percentages

3) Order of Operations

b. Algebra Skills

1) Solving equations

2) Simplifying expressions

3) Summation notation

c. Cartesian coordinate system

1) Scales

2) Plotting points

3) Intercepts

4) Linear equations

5) Interpreting graphs

d. Problem Solving Skills

1) Reading strategies for comprehension

2) Categorizing Information

3) Writing equations and translating words into equations

4) Interpreting results

e. Study Skills

1) Affective domain

2) Test taking strategies

3) Reading a textbook for comprehension

4) Note taking

f. Technology Skills

1) Graphing calculator

2) On-line learning management systems (on-line homework, Canvas, etc.)

8. Method of Instruction

a. Lecture and demonstration

b. Collaborative learning and peer review

c. Student presentations

9. Methods of Evaluating Student Performance

a. Independent exploration activities such as data collecting, and surveying

b. Class participation/problem presentations such as findings of surveys.

10. Outside Class Assignments

a. Problem Sets

b. Reading Assignments –articles on affective domain

11. Texts

1. Required Text(s): Triola, Mario. *Essentials of Statistics.* 6th Edition. Boston, MA: Addison Wesley- Pearson, 2018 or online edition.

b. Supplementary texts and workbooks:

TBD

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Addendum: Student Learning Outcomes

Upon completion of this course, our students will be able to do the following:

1. Use a problem solving process to read texts and problems to interpret the results in the context of the application.
2. Demonstrate relevant arithmetic, algebra, and technology skills in the context of Statistics.
3. Develop study habits that promote success in Elementary Statistics.

Date approved by the Governing Board: April 16, 2019