COURSE OUTLINE OF RECORD

Number: MATH G096  TITLE: Support for Introduction to Statistics

ORIGINATOR: Gita Alemansour  EFF TERM: Fall 2019
FORMERLY KNOWN AS:  DATE OF OUTLINE/REVIEW: 11-20-2018
CROSS LISTED COURSE:  TOP NO: 1702.00

COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:
1. Demonstrate the ability to describe the normal distribution and compute the probabilities of an event.

SEMESTER UNITS: 2.0
HRS LEC: 36.0  HRS LAB: 0.0  HRS OTHER: 0.0
CONTACT HRS TOTAL: 36.0
STUDY NON-CONTACT HRS RECOMMENDED: 72.0

CATALOG DESCRIPTION:
This co-requisite course is intended for students that enroll into Introduction to Statistics G160. It provides supplemental instruction in basic algebra skills and concepts needed for success in Introduction to Statistics computations and applications. Success in this course will be based on attendance and satisfactory completion of in-class assignments. Requires concurrent enrollment in specified sections of Introduction to Statistics G160.

JUSTIFICATION FOR COURSE:

PREREQUISITES:

COREQUISITES:
- MATH G160: Introduction To Statistics

ADVISORIES:

ASSIGNED DISCIPLINES:
- Mathematics

MATERIAL FEE: Yes [ ] No [X] Amount: $0.00

CREDIT STATUS: Noncredit [ ] Credit - Degree Applicable [ ] Credit - Not Degree Applicable [X]

GRADING POLICY: Pass/No Pass [X]  Standard Letter [ ] Not Graded [ ]  Satisfactory Progress [ ]

OPEN ENTRY/OPEN EXIT: Yes [ ] No [X]

TRANSFER STATUS: CSU Transferable[ ]  UC/CSU Transferable[ ]  Not Transferable[X]

BASIC SKILLS STATUS: Yes [X] No [ ]  LEVELS BELOW TRANSFER: 1 level below transfer level

CALIFORNIA CLASSIFICATION CODES: Y - Not Applicable

NON CREDIT COURSE CATEGORY: Y - Not applicable, Credit Course

OCCUPATIONAL (SAM) CODE: E

REPEATABLE ACCORDING TO STATE GUIDELINES: No [X]  Yes [ ] NUMBER REPEATS:

REQUIRED FOR DEGREE OR CERTIFICATE: No [X] Yes [ ]

GE AND TRANSFER REQUIREMENTS MET:

NON CREDIT COURSE CATEGORY: Y - Not applicable, Credit Course

OCCUPATIONAL (SAM) CODE: E

REPEATABLE ACCORDING TO STATE GUIDELINES: No [X]  Yes [ ] NUMBER REPEATS:

REQUIRED FOR DEGREE OR CERTIFICATE: No [X] Yes [ ]

GE AND TRANSFER REQUIREMENTS MET:

COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:
1. Demonstrate the ability to describe the normal distribution and compute the probabilities of an event involving a normally distributed random variable.

2. Demonstrate the ability to compute probabilities.

3. Interpret the p-value and significance level for a given data set.

COURSE OBJECTIVES:
1. Address the affective side of learning to provide students with the necessary skills to succeed in transfer level mathematics.
2. Perform basic operations of real numbers.
3. Interpret percent’s, ratios, and proportions.
4. Develop skills necessary for success at solving word problems.

COURSE CONTENT:

LECTURE CONTENT:

A. Learning skills
   1. study skills
   2. time management
   3. math anxiety
   4. test taking skills
B. Operations of real and complex numbers
   1. arithmetic
   2. simplifying
   3. rounding
   4. scientific notation
   5. summation notation
   6. sets and intervals
C. Ratios and proportions
   1. ratios as fractions
   2. decimals and fractions as percents
   3. solving problems using proportions
D. Linear equations
   1. interpret the slope
   2. interpret the vertical intercept
E. Solving word problems
   1. identifying questions
   2. identifying formula/equation
   3. interpreting results
F. Statistics topics
   1. general probability
   2. probability distributions
   3. confidence intervals
   4. hypothesis testing
   5. interpret statistical results in context(p-value)

METHODS OF INSTRUCTION:

A. Lecture:
B. Tutoring – noncredit:
C. Dist. Ed – Delayed Interaction:
D. Online:
E. Independent Study:
F. Hybrid:
INSTRUCTIONAL TECHNIQUES:
1. Lecture/Discussion
2. Collaborative Group Learning
3. Article Handouts
4. Multimedia Presentations
5. Web Enhanced
6. Homework Assignments
7. Group or Individual Projects
8. Problem Solving and Technology Sessions

COURSE ASSIGNMENTS:
Reading Assignments
A. Textbook
B. Published articles
C. Case Studies

Out-of-class Assignments
A. Textbook or online homework assignments
B. Projects
C. Problem-solving applications requiring critical thinking

Writing Assignments
A. Projects
B. Reports
C. Quiz question which require written explanation of a topic or concept

METHODS OF STUDENT EVALUATION:
Short Quizzes
Projects (ind/group)
Problem Solving Exercises
Skills Demonstration

Demonstration of Critical Thinking:
Through independent work or group discussions, students will demonstrate critical thinking and problem solving by reading the problem, interpreting, and applying the statistical concepts necessary for its solution.

Required Writing, Problem Solving, Skills Demonstration:
Students will demonstrate problem-solving and skill demonstration through turned in class activities, projects, and/or quizzes of topics presented. In addition, demonstrate the use of the calculator and/or computer in analyzing and comparing data.

TEXTS, READINGS, AND RESOURCES:
TextBooks:

LIBRARY:
Adequate library resources include: Print Materials
Services
Comments:
Graphing Calculators

Attachments:
Attached Files