

Effective Term
Fall 2024

Send Workflow to Initiator
No

CB04 Credit Status
Credit - Degree Applicable

Discipline

Minimum Qualifications And/Or

Mathematical Statistics (Degree) s (

Subject Code

MATH - Mathematical Statistics

Course Number

80

Department

Mathematical Statistics (

Division

Mathematical Statistics (

Full Course Title

Support for Statistics s s

Short Title

Support for Statistics s s

CB03 TOP Code

MATH-001 - Mathematical, General s

CB08 Basic Skills Status

NBS - Not Basic Skill s s

CB09 SAM Code

NE - Non-Occupational

Rationale

This course will help students understand statistical concepts. This course complies with AB 1705 and California's direct education standards.

Catalog Course Description

This course is designed to provide additional time for students to explore the application of fundamental concepts in statistics. Topics include descriptive statistics, probability and random distribution, statistical inference, correlation and linear regression, analysis of variance, and chi-square test; application of technology for statistical analysis including interpretation and use of statistical software and applications using data from a real-world range of disciplines.

Open Entry/Open Exit

No

Repeatability

Not Repeatable

Grading Options

Pass /

Allow Audit

Yes Y

Prerequisite(s)

Completion of intermediate algebra or appropriate placement.

Corequisite(s)

Concurrent enrollment in MATH 223 or equivalent.

Requisite Description

Course Not a Sequence

Subject

Math

Course #

223

Level of Scrutiny

Closely Related Lectures

Is this course variable unit?

No

Units

1.0000

Activity Hours

6.003

Outside of Class Hours

18

Total Contact Hours

6.3

Total Student Hours

54

Is this course offered through Distance Education?

Yes Y

Online Delivery Methods

Blank bar for online delivery methods

Student Learning Outcomes

Upon satisfactory completion of the course, students will be able to:

- 1. Generate a data analysis graph from data.
- 2. Identify the relevant measures of central tendency in a distribution.
- 3. Calculate and interpret Normal probabilities.

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- 1. Interpret data displayed in bar and line graphs.
- 2. Calculate and identify the measures of central tendency for data.
- 3. Interpret measures of central tendency for data.
- 4. Identify the relationship between data, advantages and disadvantages of each.
- 5. Define and identify each.
- 6. Calculate the mean and standard deviation of a distribution.
- 7. Calculate probabilities in groupings of distributions.
- 8. Construct and interpret confidence intervals.
- 9. Interpret the output of a technology aided statistical analysis, especially the use of a graphing calculator.
- 10. Determine the appropriate method for testing a hypothesis.
- 11. Use statistical methods of inference for estimation and interpretation of associated statistics.

Course Content

- 1. Summary of data graphically and numerically;
- 2. Descriptive statistics: measures of central tendency;
- 3. Sample and Population

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CB24 Program Course Status

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Allow Pass/No Pass

e s Y

Only Pass/No Pass

No

Reviewer Comments

Stacey Howard (showard) (Fri, 13 Oct 2023 17:26:54 GMT): Artic latio Of ce r u S pport for C m a Inv n ATH 88 i o -tra (for le el. s
n n us g e t alig i n g v i t i n c o r e i u s b m e s i g.

Seth Anderson (sethe.anderson) (Sun, 14 Jan 2024 22:41:39 GMT): .) " - #0#0" B) - # #0 #"