

SOC 300: STATISTICS EDGE

New Course Proposal

Changes saved but not submitted

Originator

jmoronez

Credit Status

Noncredit

Subject

SOC - Sociology

Course Number

300

Full Course Title

Statistics Edge

Short Title

STATISTICS EDGE

Discipline**Disciplines List**

Sociology

Modality

Face-to-Face

100% Online

Hybrid

Catalog Description

This course prepares incoming college students for college-level statistics. Students will learn and/or review statistical calculations, analysis, and interpretation. The foundational statistical concepts learned in this course will help lead to academic success in statistics courses.

Schedule Description

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Non-credit Hours

24

Lecture Units

0

Lab Units

0

In-class Hours

15

Out-of-class Hours

9

Total Course Units

0

Total Semester Hours

24

Override Description

Noncredit Course

Required Text and Other Instructional Materials
Resource Type

Web/Other

Open Educational Resource

No

Year

N/A

Description

The ALEKS program requires a college subscription. Once subscription is activated by the college, students can use it for free.

Class Size Maximum

30

Course Content

- Basic mathematical and statistical terminology
- Identify information from tables, graphs, and charts (pie charts, bar graphs, and histograms)
- Plot points and intervals on the number line
- Find the distance between two points on the number line
- Round decimals to different place values
- Order decimal numbers
- Calculate measures of central tendencies (mean, median, and mode)
- Calculate measures of variability (standard deviation, variance, range, etc.)
- Convert fractions, decimals, and percentages
- Order of operations in mathematical expressions and formulas
- Calculate square root of numbers
- Calculate powers of a number (squared, cubed, etc.)
- Evaluate algebraic expressions
- Solve a linear equation with one variable
- Plot an ordered pair (x, y)
- Mathematical wraparound/support services available

Course Objectives

	Objectives
Objective 1	Calculate and interpret data communicated in various forms and graphic presentations.
Objective 2	Explore the use of web-based technology and media via ALEKS, tutorials, and other supplemental statistical-based resources.
Objective 3	Demonstrate mathematical and statistical understanding of concepts and procedures.
Objective 4	Identify wraparound support services at College of the Desert including mathematics and statistics resources and beyond

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Apply foundational mathematical and statistical skills, terminology, and concepts.
Outcome 2	Identify support services for mathematics and statistics and other wraparound services at the College of the Desert.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Participation	Students will engage in discussion boards, tasks (like setting up appointments, visiting tutoring center, emailing professor, etc.), and group activities.
Technology-based instruction	Students will use the adaptive mathematical program (ALEKS) to enhance their mathematical and statistical skills. Automated feedback will be given to students from the program which includes step-by-step instructions on how to approach and solve equations.
Tutorial	Students will be guided through mathematical and statistical calculations through different types of media including professor-created content.
Other (Specify)	Students will learn step-by-step instruction via the ALEKS program outside of class.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Tests/Quizzes/Examinations	Students will complete approximately 9 hours of out of class quizzes/examinations and other benchmarks activities through the ALEKS program.	In and Out of Class
Student participation/contribution	Students will complete approximately 15 hours of in-class activities, group work, discussions, and exercises.	In Class Only
Other	Students' out-of-class hours will be tracked in the learning management system, as well as through the assignments they complete outside of class.	Out of Class Only

Assignments
Other In-class Assignments

None

Other Out-of-class Assignments

None

Grade Methods

Pass/No Pass Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %

100

What will you be doing in the face-to-face sections of your course that necessitates a hybrid delivery vs a fully online delivery?

This course can be offered face-to-face, hybrid, and fully online. There is nothing that "necessitates a hybrid delivery."

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

The ALEKS program is secure and integrates with the Canvas LMS.

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

The ALEKS program has capabilities beyond the Canvas LMS. ALEKS is adaptive and adjusts to student performance. It allows for faculty to write questions and provide step-by-step solutions to solving equations.

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Discussion forums with substantive instructor participation
Online quizzes and examinations
Private messages
Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus
Video or audio feedback
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cm mediasolutions, etc.)
Teleconferencing
Telephone contact/voicemail

For hybrid courses:

Orientation, study, and/or review sessions
Scheduled Face-to-Face group or individual meetings

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Students will be contacted via canvas messaging as a group and individually, via announcements that appear on the announcement proportion, and via student email. Student will also be required to meet with faculty on a one-on-one format for a meet and greet. Students will also be assigned discussion board forums to communicate with faculty and and their fellow students.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Students will have additional interactions with faculty via campus email and phone calls which can enhance student learning because they can choose the method of communication that is best for them. Faculty can direct them to outside resources to supplement their learning.

Other Information

MIS Course Data

CIP Code

45.1101 - Sociology.

TOP Code

493014 - Study Skills

SAM Code

E - Non-Occupational

Basic Skills Status

Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Other Non-credit Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Elem/Secondary Basic Skills

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

General Education Status

Y = Not applicable

Support Course Status

N = Course is not a support course

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

This course is repeatable as it is designed to strengthen student knowledge and prepare them for credit courses in statistics. Students can repeat course if they deem it necessary for their success.

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

02/01/2022

Academic Senate Approval Date

03/10/2022

Board of Trustees Approval Date

03/18/2022

Chancellor's Office Approval Date

03/23/2022

Course Control Number

CCC000630668

Programs referencing this courseEDGE Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined/?key=359>)