

## ABSE122 : Basic Statistics Review

### General Information

Author:	<ul style="list-style-type: none"><li>Jesus Carino</li></ul>
Course Code (CB01) :	ABSE122
Course Title (CB02) :	Basic Statistics Review
Department:	ABSE
Proposal Start:	Spring 2026
TOP Code (CB03) :	(1702.00) Mathematics Skills
CIP Code:	(27.0199) Mathematics, Other.
SAM Code (CB09) :	Non-Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000607371
Curriculum Committee Approval Date:	02/26/2025
Board of Trustees Approval Date:	04/22/2025
Last Cyclical Review Date:	02/26/2025
Course Description and Course Note:	ABSE 122 students review the basic concepts of data analysis and statistical computing. Students learn weighted averages, distribution of data, interpretation of data graphs, counting strategies and probability. Students develop basic statistics vocabulary and contextualized problem solving. Lecture 20 hours. Note: This is a noncredit course with open-entry and open-exit. This course is pass/no pass only.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none"><li>Noncredit</li></ul>
Mode of Delivery:	<ul style="list-style-type: none"><li>In-Person</li><li>Remote</li><li>Hybrid</li></ul>
Author:	No value
Course Family:	No value

### Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"><li>Mathematics-Basic Skills: Non-Credit</li></ul>
Alternate Discipline:	No value
Alternate Discipline:	No value

## Course Development

### Basic Skill Status (CB08)

Course is a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

### Course Special Class Status (CB13)

Course is not a special class.

### Pre-Collegiate Level (CB21)

One level below transfer.

### Grading Basis

- Pass / No-Pass Only

### Course Support Course Status (CB26)

Course is not a support course

## General Education and C-ID

### General Education Status (CB25)

Not Applicable

### Transferability

Not transferable

### Transferability Status

Not transferable

## Units and Hours

### Summary

<b>Minimum Credit Units (CB07)</b>	0
<b>Maximum Credit Units (CB06)</b>	0
<b>Total Course In-Class (Contact) Hours</b>	0
<b>Total Course Out-of-Class Hours</b>	0
<b>Total Student Learning Hours</b>	20

### Credit / Non-Credit Options

#### Course Type (CB04)

Non-Credit

#### Noncredit Course Category (CB22)

Elementary and Secondary Basic Skills.

#### Noncredit Special Characteristics

No Value

#### Course Classification Code (CB11)

Non-Enhanced Funding.

Variable Credit Course

#### Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience Education

Status (CB10)

### Weekly Student Hours

	In Class	Out of Class
Lecture Hours	20	0
Laboratory Hours	0	0
Studio Hours	0	0

### Course Student Hours

<b>Course Duration (Weeks)</b>	18
<b>Hours per unit divisor</b>	54
<b>Course In-Class (Contact) Hours</b>	
Lecture	20

Laboratory	0
Studio	0
<b>Total</b>	<b>0</b>

**Course Out-of-Class Hours**

Lecture	20
Laboratory	0
Studio	0
<b>Total</b>	<b>0</b>

**Time Commitment Notes for Students**

This is a noncredit course with open-entry and open-exit.

**Units and Hours - Weekly Specialty Hours**

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

**Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation**

**Advisory**

ESL30 - ENGLISH AS A SECOND LANGUAGE LEVEL 3

**Objectives**

- Develop coherence and mechanical accuracy.
- Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for this level.
- Converse at a functional level adequate for everyday use on the campus and in the community.

**Entry Standards**

Entry Standards	Description
Perform basic arithmetic operations (addition, subtraction, multiplication, division).	No Value
Decode 2,500-word reading passages and respond to inference and recall questions.	No Value

## Course Limitations

Cross Listed or Equivalent Course

Description

No value

No value

## Specifications

### Methods of Instruction

Methods of Instruction

Lecture

Methods of Instruction

Laboratory

Methods of Instruction

Multimedia

Methods of Instruction

Tutorial

Methods of Instruction

Collaborative Learning

Methods of Instruction

Demonstrations

### Out of Class Assignments

- Practice applications

### Methods of Evaluation

### Rationale

Activity (answering journal prompt, group activity)

Class participation

Exam/Quiz/Test

Quizzes

Exam/Quiz/Test

Exit Assessment

### Textbook Rationale

OER is primary class material. However, the textbook is a supplemental resource for student learning. The principles of the course have not changed, so material is still valid, and publication date is irrelevant.

### Textbooks

Author	Title	Publisher	Date	ISBN
Hoyt,Cathy Fillmore	Math Sense 3: Focus on Analysis		2015	978-1-56420-693-0

### Other Instructional Materials (i.e. OER, handouts)

<b>Description</b>	OpenStax- Introductory Business Statistics 2e
<b>Author</b>	Alexander Holmes, Barbara Illowsk, Susan Dean
<b>Citation</b>	OpenStax   Free Textbooks Online with No Catch. (n.d.-b). @Openstax/Os-webview. <a href="https://openstax.org/details/books/introductory-business-statistics-2e">https://openstax.org/details/books/introductory-business-statistics-2e</a>
<b>Online Resource(s)</b>	Digital ISBN-13: 978-1-961584-33-4

## Learning Outcomes

### Course Objectives

Display and analyze data.

Solve problems involving data, statistics, and probability.

Develop fluency in statistics vocabulary.

### SLOs

**Compare results of simulations with predicted probabilities.**

Expected Outcome Performance: 70.0

ABSE NCR AHS Diploma	Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.
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ABSE NCR Adult Basic Education	Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.
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ABSE NCR GED Preparation	Solve a variety of word problems, many with graphics, using basic computation, analytical and reasoning skills.
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ILOs Core ILOs	Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.
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Select an appropriate graphical representation for a set of data and use appropriate statistics to communicate information about the data.

Expected Outcome Performance: 70.0

*ABSE*  
NCR AHS Diploma Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.

*ABSE*  
NCR Adult Basic Education Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.

*ABSE*  
NCR GED Preparation Solve a variety of word problems, many with graphics, using basic computation, analytical and reasoning skills.

*ILOs*  
Core ILOs Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.

Apply statistical principles and techniques.

Expected Outcome Performance: 70.0

*ILOs*  
Core ILOs Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.

Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.

*ABSE*  
NCR AHS Diploma Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.

*ABSE*  
NCR Adult Basic Education Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.

*ABSE*  
NCR GED Preparation Solve a variety of word problems, many with graphics, using basic computation, analytical and reasoning skills.

### Additional SLO Information

**Does this proposal include revisions that might improve student attainment of course learning outcomes?**

No

**Is this proposal submitted in response to learning outcomes assessment data?**

No

**If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.**

No Value

**SLO Evidence**

No Value

## Course Content

### Lecture Content

#### Types of Graphs (2 hours)

- Data collection
- Purpose and use of various graphs and tables
- Bar graphs, histograms, circle graphs, line graphs, etc.

#### Measures of center and spread (3 hours)

- Mean
- Median
- Mode

#### Range Values and weighted averages (3 hours)

- Calculating for missing data
- Weighted ranking
- Weighted values using percentages

#### Box plots and distribution of data (2 hours)

- Measures of center and spread using boxplots
- Distribution of data using histograms

#### Predictions and correlations (2 hours)

- Interpreting data
- Using scatter plots
- Negative and positive linear correlations

#### Counting strategies (2 hours)

- Calculating sequences of events
- Basic Factorials

#### Combinations and permutations (3 hours)

- Differences between combinations and permutations
- Applying and calculating combinations
- Applying and calculating permutations

#### Probability (3 hours)

- Simple probability
- Theoretical and Experimental probability
- Compound probability

**Total hours: 20**

## Additional Information

### Repeatability

Repeatable

### Justification (if repeatable was chosen above)

Non-credit courses

### Is it possible this course will have a material fee?

No

I have contacted my library liaison (<https://campusguides.glendale.edu/faculty/liasons>):

No Value

**What term(s) will this course be offered?**

Fall/Winter/Spring/Summer

**Will any additional resources be needed for this course? (Click all that apply)**

- No

**If additional resources are needed, add a brief description and cost in the box provided.**

No Value

## Resources

**Did you contact your departmental library liaison?**

Yes

**If yes, who is your departmental library liaison?**

Shelley Aronoff (ESL-Noncredit, Noncredit Business & Life Skills)

**Did you contact the DEIA liaison?**

No

**Were there any DEIA changes made to this outline?**

No

**If yes, in what areas were these changes made:**

No Value

**Will any additional resources be needed for this course? (Click all that apply)**

- No

**If additional resources are needed, add a brief description and cost in the box provided.**

No Value