

## GENERAL EDUCATION OUTCOMES ASSESSMENT PLAN

### Math 1220: College Algebra

#### Student Learning Outcome 1:

Use function notation; perform function arithmetic, including composition; find inverse functions.

#### State Essential Skills Linked to SLO 1:

Communication

Quantitative Reasoning

#### Means of Assessment for SLO 1:

Students in the course will achieve a grade of 80% or higher on selected problems on quizzes and cumulative final exam.

#### Summary of Data

Number of Students Meeting Criterion:	21	Number of Students Not Meeting Criterion:	70
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	23%

#### Student Learning Outcome 2:

Identify functions and their transformations given in algebraic, graphical, numerical, and verbal representations, and explain the connections between these representations.

#### State Essential Skills Linked to SLO 2:

Communication

Critical Thinking

Quantitative Reasoning

#### Means of Assessment for SLO 2:

Students in the course will achieve a grade of 80% or higher on selected problems on quizzes and cumulative final exam.

#### Summary of Data

Number of Students Meeting Criterion:	28	Number of Students Not Meeting Criterion:	63
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	31%

**Student Learning Outcome 3:**

Graph and interpret key feature of functions, e.g., intercepts, leading term, end behavior, asymptotes.

**State Essential Skills Linked to SLO 3:**

Communication  
Critical Thinking  
Quantitative Reasoning

**Means of Assessment for SLO 3:**

Students in the course will achieve a grade of 80% or higher on selected problems on quizzes and cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	22	Number of Students Not Meeting Criterion:	69
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	24%

**Student Learning Outcome 4:**

Solve equations algebraically to answer questions about graphs, and use graphs to estimate solutions to equations.

**State Essential Skills Linked to SLO 4:**

Critical Thinking  
Quantitative Reasoning

**Means of Assessment for SLO 4:**

Students in the course will achieve a grade of 80% or higher on selected problems on a cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	28	Number of Students Not Meeting Criterion:	63
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	31%

**Student Learning Outcome 5:**

Solve contextual problems by identifying the appropriate type of function given the context and creating a formula based on the information given.

**State Essential Skills Linked to SLO 5:**

Critical Thinking

Quantitative Reasoning

**Means of Assessment for SLO 5:**

Students in the course will achieve a grade of 80% or higher on selected problems on quizzes and cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	27	Number of Students Not Meeting Criterion:	64
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	30%

**Student Learning Outcome 6:**

Communicate mathematical information using proper notation and verbal explanations.

**State Essential Skills Linked to SLO 6:**

Communication

**Means of Assessment for SLO 6:**

Students in the course will achieve a grade of 80% or higher on selected problems on a cumulative final exam. Students will write a short paper explaining a connection between College Algebra concepts and their major or minor.

**Summary of Data**

Number of Students Meeting Criterion:	33	Number of Students Not Meeting Criterion:	58
Total Number of Students Assessed:	91	Percent of Students Meeting Criterion:	36%

## GENERAL EDUCATION OUTCOMES ASSESSMENT PLAN

### Math 1350: Introduction to Statistics

#### Student Learning Outcome 1:

Explain the general concepts of statistics.

#### State Essential Skills Linked to SLO 1:

Communication

#### Means of Assessment for SLO 1:

Students will achieve a grade of 80% or higher on a report which they will write and present to the class explaining the general concepts of statistics. This report will focus on real world examples.

#### Summary of Data

Number of Students Meeting Criterion:	23	Number of Students Not Meeting Criterion:	20
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	53%

#### Student Learning Outcome 2:

Presentation and description of data.

#### State Essential Skills Linked to SLO 2:

Communication

Critical Thinking

#### Means of Assessment for SLO 2:

Students in the course will achieve a grade of 80% or higher on several class assignments and an exam.

#### Summary of Data

Number of Students Meeting Criterion:	25	Number of Students Not Meeting Criterion:	18
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	58%

**Student Learning Outcome 3:**

Summarize data using measures of central tendency and variation.

**State Essential Skills Linked to SLO 3:**

Communication

Quantitative Reasoning

**Means of Assessment for SLO 3:**

Students in the course will achieve a grade of 80% or higher on selected problems on an exam and cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	27	Number of Students Not Meeting Criterion:	16
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	63%

**Student Learning Outcome 4:**

Present the concepts of probability.

**State Essential Skills Linked to SLO 4:**

Communication

Critical Thinking

**Means of Assessment for SLO 4:**

Students in the course will achieve a grade of 80% or higher on several class assignments and an exam.

**Summary of Data**

Number of Students Meeting Criterion:	21	Number of Students Not Meeting Criterion:	22
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	49%

**Student Learning Outcome 5:**

Compute point and interval estimates.

**State Essential Skills Linked to SLO 5:**

Critical Thinking

Quantitative Reasoning

**Means of Assessment for SLO 5:**

Students in the course will achieve a grade of 80% or higher on selected problems on a cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	16	Number of Students Not Meeting Criterion:	27
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	37%

**Student Learning Outcome 6:**

Perform hypothesis tests.

**State Essential Skills Linked to SLO 6:**

Communication

Critical Thinking

Quantitative Reasoning

**Means of Assessment for SLO 6:**

Students in the course will achieve a grade of 80% or higher on selected problems on a cumulative final exam.

**Summary of Data**

Number of Students Meeting Criterion:	18	Number of Students Not Meeting Criterion:	25
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	42%

**Student Learning Outcome 7:**

Analyze data using regression and correlation.

**State Essential Skills Linked to SLO 7:**

Critical Thinking

Quantitative Reasoning

**Means of Assessment for SLO 7:**

Students in the course will achieve a grade of 80% or higher on a class assignment.

**Summary of Data**

Number of Students Meeting Criterion:	17	Number of Students Not Meeting Criterion:	26
Total Number of Students Assessed:	43	Percent of Students Meeting Criterion:	40%