

Student Learning Outcomes Revision



ANTELOPE VALLEY COLLEGE

Course Number: MATH 115

Course Title: Statistics

Indicate, by number, the Institutional Learning Outcome(s) and Program Learning Outcome(s) each revised Student Learning Outcome will support. Specifically describe the assessment method(s) used to measure each outcome and the achievement target that will determine successful completion of the outcome. Document the dialogue that prompted this revision along with the rationale for the revision. Post a copy of this form, with any additional supporting information, in the WEAVE Document Repository for the course after approved by the Outcomes Committee. Revisions should also be reflected in the course Action Plan.

ILO	PLO	STUDENT LEARNING OUTCOME	ASSESSMENT METHODS and ACHIEVEMENT TARGETS	REVISION DIALOG
2 3 4		Organize, draw, interpret, and calculate summary measures for univariate and bivariate data sets.	Written test and quizzes are given in which data, tables, charts, and assumptions about the underlying probability distributions are a platform for demonstrating that the student learning outcomes have been achieved. The assessment will occur via indicated questions embedded in the final exam to measure the SLO. A successful outcome is achieved if at least 70% of students score 70% or higher on specified problems.	
2 3 4		Solve probability problems involving the concepts of independent events, mutually exclusive events, conditional probability, binomial distribution, and normal distribution.	Written test and quizzes are given in which data, tables, charts, and assumptions about the underlying probability distributions are a platform for demonstrating that the student learning outcomes have been achieved. The assessment will occur via indicated questions embedded in the final exam to measure the SLO. A successful outcome is achieved if at least 70% of students score 70% or higher on specified problems.	
2 3 4		Determine and interpret confidence interval estimates of population means and population proportions.	Written test and quizzes are given in which data, tables, charts, and assumptions about the underlying probability distributions are a platform for demonstrating that the student learning outcomes have been achieved. The assessment will occur via indicated questions embedded in the final exam to measure the SLO. A successful outcome is achieved if at least 70% of students score 70% or higher on specified problems.	
2 3 4		Perform hypothesis tests: one-population proportion, one-population mean, chi-square goodness-of-fit and chi-square independence.	Written test and quizzes are given in which data, tables, charts, and assumptions about the underlying probability distributions are a platform for demonstrating that the student learning outcomes have been achieved. The assessment will occur via indicated questions embedded in the final exam to measure the SLO. A successful outcome is achieved if at least 70% of students score 70% or higher on specified problems.	