

MODESTO CITY SCHOOLS COURSE OUTLINE

Course Title	Probability and Statistics Honors OLL S1	Probability and Statistics Honors OLL S2
Course Number	OLL30271	OLL30272
Recommended Grade	<input type="checkbox"/> 7 <input type="checkbox"/> 8 <input checked="" type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12	
Duration	<input type="checkbox"/> Quarter <input checked="" type="checkbox"/> Semester	
Credit	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 10	
Repeatable for Credit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Required for Graduation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Meets Graduation Requirement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CALPADS Course Number	9257	
CALPADS Course Name	Pre-Calculus	
Meets UC/CSU Requirements	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, which area? <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G	
CTE Course	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
CTE Course Level	<input type="checkbox"/> Introduction <input type="checkbox"/> Concentrator <input type="checkbox"/> Capstone N/A	
Part of a Course Pathway	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, which pathway?	
Credential Requirements		
Replaces	N/A	
Recommended Prerequisites	N/A	
Aligned to Standards Date		
Content Delivery Method	<input type="checkbox"/> Instructor Led <input checked="" type="checkbox"/> Online Provider Modesto Virtual Academy	
Other Information		
Board Approval Date		
Implementation Date	Fall 2020	

Course Description:

Required Text(s): (Title, Publisher, Year):

Supplementary Materials(s):



Course Name: Probability and Statistics v18

Course Credit: 1.0

Course Estimated Completion Time: 2 segments/32-36 weeks

Course Description: Probability and Statistics will introduce students to exploring data, sampling and experimentation by planning and conducting studies, anticipating patterns using probability and simulation, and employing statistical inference to analyze data and draw conclusions.

Prerequisites: Algebra II

Honors Lessons: Yes. This course is an honors level course.

Course Profile (Includes Honors, if applicable)

Type of Assessment	Quantity	Location(s)
Teacher-graded	18	4 Projects: 01.05, 03.05, 04.05, 05.05, 6 DBAs: 01.07, 02.06, 03.06, 04.07, 05.06, 06.08, 4 Module Tests Part 2: 01.08, 02.07, 04.08, 05.07, 2 Segment Exams Part 2: 03.07, 06.09 2 Collaboration Reflections
Auto-graded	25	25 Lesson-level assessments
Partial Auto-graded	6	6 Mid-Module Checks: 01.04, 02.03, 03.03, 04.04, 05.03, 06.04
Discussion-Based (DBA)	6	6 DBAs: 01.07, 02.06, 03.06, 04.07, 05.06, 06.08
Collaboration	2	
Project-based	4	4 Projects: 01.05, 03.05, 04.05, 05.05
Total Assessments	40	

Types of Assessments

Type of Assessment	Available	Type of Assessment	Available
Multiple Choice	Yes	Essay	Yes
Worksheets	No	Collaborative	Yes
Web 2.0	No	Short Response	Yes
Project - Based	Yes	Labs	No
Self - Check	Yes	DBAs	Yes

Scope and Sequence

Segment I Concepts

Module 1

- Introduction to Statistics
- Measures of Central Tendency
- Measures of Variation
- Displaying Data

Module 2

- Sampling and Surveys
- Experiments
- Correlation Versus Causation

Module 3

- Basic Concepts of Probability
- Condition Probability and Two-Way Tables
- The Multiplication and Addition Rule
- Simulations

Segment II Concepts

Module 4

- Random Variables
- Binomial Probability Distribution
- Geometric Probability Distribution
- Introduction to Normal Probability Distribution

Module 5

- Sampling Distributions and Proportions
- Sample Means
- Confidence Intervals for Proportions
- Confidence Intervals for Means

Module 6

- Hypothesis Testing- One Proportion
- Hypothesis Testing- One-Sample Mean
- Comparing Two Means
- Scatterplots and Correlation
- Least-Squares Regression