

# El Paso Community College

## Syllabus

### Instructor's Course Requirements

### Fall 2021

#### I. Course Number and Instructor Information

MATH 1342, FUNDAMENTALS OF STATISTICS

Prerequisite: Math 0305 with a "C" or better or by placement exam

INSTRUCTOR'S NAME: Leobardo Valera

CAMPUS AND OFFICE NUMBER: TBA

TELEPHONE NUMBER: (915) 267-7564

OFFICE HOURS: M-W: 7:00 – 8:00 and by appointment

#### II. Text and Materials

##### A. Required Text

Larson, Elementary Statistics: Picturing the World with Integrated Review, 7<sup>th</sup> Edition. Pearson; Adopted 2019

##### B. Materials

- Scientific calculator which has statistical functions such as mean, standard deviation, etc
- 1- 3-ring binder for notes, etc.
- The following are optional:
  - Excel Manual
  - TI-83/TI-83 Plus Manual

#### III. Course Requirements

##### A. Required Work

1. **Unit Exams (400 points):** There will be four (4) units exams worth up to 100 points each. **There will be no retakes on exams, and no exam grade will be dropped**, but if it is to the student's advantage the final exam grade may replace one of the other four exam grades (see below for information on missed exams).
2. **Classwork/Homework (100 points):** Classwork and homework will be assigned throughout the semester to be picked up and graded occasionally. It is to the

student's advantage to complete homework assignments on a daily basis. The average of the classwork/homework assignments will be worth 100 points.

3. **Final Exam (100 points):** The final exam is comprehensive and mandatory. If student does not take the final exam, he/she will receive an "F" for the course. The final exam will not be dropped or replaced.
2. **Projects (100 points):** There will be approximately four projects where you will reflect on what you have learned, explain key ideas, and investigate more involved problems. The average of the four projects will be worth 100 points.

#### B. Grading Scale

The Course grade will be determined by taking the total points earned dividing by the total possible number of points a student can earn, rounding to the nearest unit, and assigning a letter grade based on the following scale.

<u>Average Grade</u>	<u>Letter Grade</u>
90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

#### C. Late Work

AT THE INSTRUCTOR'S DISCRETION, LATE WORK MAY BE ACCEPTED. LATE WORK WILL LOSE 10 POINTS FOR EACH CLASS PERIOD LATE.

#### D. Missed Exams

It is the student's responsibility to make prior arrangements with the instructor if unable to attend class the day of the test. Make-up exams will not be given, except in special circumstances. If a student is absent for a unit exam and has a valid excuse, he/she will have the option of counting the final exam twice-once for the missed exam and once as the regular final exam score. **Final exam scores will not be used to replace a zero unless one has an authorized excuse.** If the student misses two or more exams, the final grade will be an "F".

### IV. Instructor's Policies

#### A. Cheating

High ethical standards are prerequisites for successful careers and reflect on a person's character. All graded work must be the student's own work. Situations involving cheating (giving and receiving answers on test) will be handled according to the Student Code of Conduct published in the EPCC Catalog (page 51) and EPCC FMA-1 Student Disciplinary Procedure.

B. Attendance--Drops

It is the student's responsibility to attend class as per the schedule. It is also the student's responsibility to withdraw from the course for whatever reason. The instructor assumes no responsibility for student withdrawal from the course or for the completion of student's course work. Course expectations are outlined in this syllabus. Last day to withdraw with a grade of "W" is **Friday, November 12, 2021.**

6. "I" Grade

A grade of "I" (incomplete) will be assigned at the discretion of the instructor. To receive an "I" a student must complete 80% of the course with at least a 70% average. The proper forms must be signed by the instructor and the student before they may be submitted to the registrar.

6. **Participation** – Students enrolled are expected to participate as a learning community, by being prepared for class, engaging in group activities, joining class discussions, communicating their understanding of mathematics, and explaining their work to others.

Children and Technology in the Classroom

1. Children will not be allowed in the classroom.
2. Students are required to turn off radios, CD players, beepers, and cell phones during class time.

## 6. CALENDAR FOR MATH 1342\*

NOTE: The list which follows reflects approximate times for exams. Specific exam dates will be announced in class at least one week prior to the actual exam date. If you have been absent and the calendar indicates an exam is approaching, it is your responsibility to check regarding a scheduled date.

Week	Dates	Lesson Covered	Section Titles
1	Aug. 23 – Aug. 29	1.1, 1.2, 1.3	1.1- An Overview of Statistics 1.2- Data Classification 1.3- Data Collection and Experimental Design
2	Aug. 30 – Sept. 5	2.1, 2.2, 2.3	2.1- Frequency Distributions and Their graphs 2.2- More Graphs and Displays 2.3- Measures of Central Tendency
3	Sept. 6 – Sept. 12 <b>September 6<sup>th</sup> – Institutional Holiday (No Class)</b>	2.4, 2.5	2.4- Measures of Variation 2.5- Measures of Position
4	Sept. 13 – Sept. 19 <b>September 16<sup>th</sup> – Professional Development Day</b>	Review, <b>Exam I</b> , 3.1	3.1- Basic Concepts of Probability and Counting
5	Sept. 20 – Sept. 26	3.2, 3.3, 3.4, 4.1	3.2- Conditional Probability and the Multiplication Rule 3.3- The Addition Rule 3.4- Additional Topics in Probability (Optional) 4.1- Probability Distributions
6	Sept. 27 – Oct. 3	4.2, 4.3 Review, <b>EXAM II</b> 5.1	4.2- Binomial Distributions 4.3- More Discrete Probability Distributions 5.1- Introduction to Normal Distributions and the Standard Normal Distribution
7	Oct. 4 – Oct. 10	5.2, 5.3, 5.4, 5.5	5.2- Normal Distributions: Finding Probabilities 5.3- Normal Distributions: Finding Values 5.4- Sampling Distributions and the Central Limit Theorem 5.5- Normal Approximations to Binomial Distributions
8	Oct. 11 – Oct. 17	6.1, 6.2, 6.3	6.1- Confidence Intervals for the Mean ( $\sigma$ known) 6.2- Confidence Intervals for the Mean ( $\sigma$ unknown) 6.3- Confidence Intervals for Population Proportions
9	Oct. 18 – Oct. 24	6.4, 7.1, 7.2	6.4- Confidence Intervals for Variance and Standard Deviation 7.1- Introduction to Hypothesis Testing 7.2- Hypothesis Testing for the Mean ( $\sigma$ known)
10	Oct. 25 – Oct. 31	Review, <b>EXAM III</b> , 7.3	7.3- Hypothesis Testing for the Mean ( $\sigma$ unknown)
11	Nov. 1 – Nov. 7	7.4, 7.5, 8.1, 8.2	7.4- Hypothesis Testing for Proportions 7.5- Hypothesis Testing for Variance and Standard 8.1- Testing the Difference Between Means (Independent Samples, $\sigma_1$ and $\sigma_2$ Known) 8.2- Testing the Difference Between Means (Independent Samples, $\sigma_1$ and $\sigma_2$ Unknown)

12	Nov. 8 – Nov.14 <b>November 11<sup>th</sup> – Institutional Holiday (No Class)</b> <b>November 12<sup>th</sup> – Last Day to DROP with a “W”</b>	8.3, 8.4, 9.1	8.3- Testing the Difference Between Means (Dependent Samples) 8.4- Testing the Difference Between Proportions 9.1- Correlation
13	Nov. 15 – Nov. 21	9.2, 9.3, 9.4	9.2- Linear Regression 9.3- Measures of Regression and Prediction Intervals 9.4- Multiple Regression
14	Nov. 22 – Nov. 28 <b>November 25<sup>th</sup> &amp; 26<sup>th</sup> – Institutional Holiday (No Class)</b>	<b>EXAM IV,</b> 10.1, 10.2, 10.3	10.1- Goodness-of-Fit Test 10.2- Independence 10.3- Comparing Two Variances
15	Nov. 29 – Dec. 5	10.4, Final Exam Review	10.4- Analysis of Variance
16	Dec. 6 – Dec. 10	<b>FINAL EXAM</b>	

The date of the final exam for this course is: \_\_\_\_\_