

**San José State University
Justice Studies Department
Summer 2018
JS 15 Statistics in Justice Studies**

Contact Information

Instructor: Yue Yuan Ph.D.

Office Location: Online office hours by Skype appointment only

Email: wilson.yuan@sjsu.edu

Classroom: SJSU Canvas

Course Format

This course adopts an online classroom delivery format. You will need the access to the internet, computer, and video/word processing software, in order for students to participate in the classroom activities. See [University Policy F13-2](http://www.sjsu.edu/senate/docs/F13-2.pdf) at <http://www.sjsu.edu/senate/docs/F13-2.pdf> for more details.

MYSJSU Messaging

You are responsible for regularly checking with the messaging system through MySJSU. Course materials including syllabus, notes, assignment, and journal articles can be found on the Canvas website.

Course Description

Catalog Description: Introduction to measures of central tendency, variation, correlation and regression, probability, estimation and hypothesis testing as used in Justice Studies. GE Area: B4
Prerequisite: Math Enrollment Category M-I or M-II, or completion of a GE Area B4 course with a grade of C- or better.

Course Goals

The primary goal of this course is to introduce you to statistical techniques commonly used by social scientists. It is useful to think of these techniques as tools that can be used to answer questions about the social world. For example, social scientists have relied on statistics to answer questions such as “Has the level of violent crime in American cities increased over the past decade?” or “Do juvenile smokers commit more delinquent acts than nonsmokers?” During this course, you will learn some of these statistical techniques and how to use them to answer questions commonly confronted by social scientists. Similarly, you will also learn how to interpret and make sense of statistical information reported in research journal articles, newspapers and magazines.

Student Learning Objectives are as follows:

Upon completion of this course, students should be able to:

1. Using mathematical methods to solve quantitative problems. Throughout the course, we will use basic mathematical operations to solve some statistical problems.
2. Using mathematics to solve problems in criminal justice and criminology.
3. Arriving at conclusions based upon the numerical and graphical data. We will be going over a few different ways to present data, highlighting the benefits and important aspects of each.
4. Applying mathematical concepts in one or more areas. After covering foundational statistical concepts, this course will focus on probability and inferential statistics. These are essential to understanding how statistics are used in academic writing and social scientific findings that support the fields that are covered in many future courses students will complete.
6. Writing requirements: In clear and concise language, students will be using their understanding of statistical concepts to interpret results, both in assignments and when responding to short answer/and or essay questions on quizzes and the Final Exam.

Required E-book:

Essentials of Statistics for Criminology and Criminal Justice By *Raymond Paternoster, Ronet D. Bachma*. ISBN-13: 978-1506365473

Other Readings

- Articles on Canvas

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of *forty-five hours for each unit of credit*, including preparing for class, participating in course activities, completing assignments, and so on. **Late homework, quizzes and exams will not be accepted.**

Requirements: You are required to read all books, book chapters, and articles in advance. Your grade is based on homework, midterm, and final exam.

Midterm and Final Examination: Midterm is scheduled **at 11am on July 23** and Final exam is scheduled at **11am on August 10, 2018.**

Grading Information

You will not be able to drop the class after the official DROP Day (<http://www.sjsu.edu/winter/academic/calendar/>) except when you have medical emergency with your doctor's note. There will be no make-ups for your missed exams. There will be only one exception to this policy. Those students who provide written notice in advance who must miss class for university business will have special tests arranged usually before the scheduled test. A final grade of incomplete (I) will be reserved for emergency situation only with your doctor's note.

Final Grade (total points possible: 350 points)

The point totals break down as follows:

Homework	150 points
Midterm	100 points
Final exam	100 points
Total	350 points

Total Points Possible: 400 points (There is no possibility of extra credit)

A plus = 100-96%	A = 95-93%	A minus = 92-90%
B plus = 89-86%	B = 85-83%	B minus = 82-80%
C plus = 79-76%	C = 75-73%	C minus = 72-70%
D plus = 69-66%	D = 65-63%	D minus = 62-60%
F = 59-0% 0-179		

Justice Studies Department Reading and Writing Philosophy

The Department of Justice Studies is committed to scholarly excellence. Therefore, the Department promotes academic, critical, and creative engagement with language (i.e., reading and writing) throughout its curriculum. A sustained and intensive exploration of language prepares students to think critically and to act meaningfully in interrelated areas of their lives—personal, professional, economic, social, political, ethical, and cultural. Graduates of the Department of Justice Studies leave San José State University prepared to enter a range of careers and for advanced study in a variety of fields; they are prepared to more effectively identify and ameliorate injustice in their personal, professional and civic lives. Indeed, the impact of literacy is evident not only within the span of a specific course, semester, or academic program but also over the span of a lifetime.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>

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Statistics in Justice Studies
Course Schedule

Date	Topics and Readings
Monday, July 9, 2018	Chapter 1 Introduction
Tuesday, July 10, 2018	Chapter 1 Introduction
Wednesday, July 11, 2018	Chapter 2 Understanding Data Distributions With Tables and Graphs
Thursday, July 12, 2018	Chapter 2 Understanding Data Distributions With Tables and Graphs
Friday, July 13, 2018	Chapter 3 Measures of Central Tendency
Monday, July 16, 2018	Chapter 3 Measures of Central Tendency
Tuesday, July 17, 2018	Chapter 4 Measures of Dispersion
Wednesday, July 18, 2018	Chapter 4 Measures of Dispersion
Thursday, July 19, 2018	Chapter 5 Probability Distributions and an Introduction to Hypothesis Testing
Friday, July 20, 2018	Chapter 5 Probability Distributions and an Introduction to Hypothesis Testing
Monday, July 23, 2018	Midterm
Tuesday, July 24, 2018	Chapter 6 Point Estimation and Confidence Intervals
Wednesday, July 25, 2018	Chapter 6 Point Estimation and Confidence Intervals
Thursday, July 26, 2018	Chapter 7 Hypothesis Testing for One Population Mean and Proportion
Friday, July 27, 2018	Chapter 7 Hypothesis Testing for One Population Mean and Proportion
Monday, July 30, 2018	Chapter 8 Testing Hypotheses With Two Categorical Variables
Tuesday, July 31, 2018	Chapter 8 Testing Hypotheses With Two Categorical Variables
Wednesday, August 1, 2018	Chapter 9 Hypothesis Tests Involving Two Population Means or Proportions
Thursday, August 2, 2018	Chapter 9 Hypothesis Tests Involving Two Population Means or Proportions
Friday, August 3, 2018	Chapter 10 Analysis of Variance
Monday, August 6, 2018	Chapter 10 Analysis of Variance
Tuesday, August 7, 2018	Chapter 11 Bivariate Correlation and Ordinary Least Squares (OLS) Regression
Wednesday, August 8, 2018	Chapter 11 Bivariate Correlation and Ordinary Least Squares (OLS) Regression
Thursday, August 9, 2018	Chapter 12 Controlling for a Third Variable: Multiple OLS Regression
Friday, August 10, 2018	Final Exam