**Instructor:** Sudha Kolathu- Parambil

**Best way to contact me:** Message me through **CANVAS Inbox or**

**e**-**mail:** [skolathuparambil@sierracollege.edu](mailto:skolathuparambil@sierracollege.edu)

**Virtual Office Hours:** **W 10 AM to 11 PM**

**Communication:** I will be communicating with you through CANVAS-Announcements, Inbox, e-mail, and Canvas-Modules.

**Description:** Part two of a two-part course in elementary statistics. Provides additional instructional support to enhance learning and promote conceptual understanding of statistics. Emphasis on statistical reasoning and application of statistical methods. Topics include confidence interval estimates and hypothesis testing procedures for one and two population means and proportions; chi-square tests for goodness-of-fit and independence; linear regression and correlation; and an introduction to analysis of variance (ANOVA). Applications using data from business, economics, education, psychology, and the social and life sciences.

**Prerequisite:**

Completion of MATH 13A with grade of "C" or better.

**Student Learning Outcomes:**

A student who successfully completes the course will be able to:

* Conduct hypothesis tests and construct confidence interval estimates for population means and proportions; chi-square tests for goodness-of-fit and independence; linear regression and correlation; and one-way analysis of variance (ANOVA).
* Logically present clear, complete, and sufficiently detailed solutions to demonstrate understanding and communicate reasoning of statistical methods using technology when appropriate.

**Objectives:**

1. Construct and interpret confidence intervals.
2. Determine and interpret levels of statistical significance including p-values.
3. Interpret the output of a technology-based statistical analysis.
4. Identify the basic concept of hypothesis testing including Type I and II errors.
5. Formulate hypothesis tests involving samples from one and two populations.
6. Select the appropriate technique for testing a hypothesis and interpret the result.
7. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics; and
8. Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.

**Textbook:** Elementary Statistics, 3rd Edition by Navidi and Monk.

Please click on “Connectmath Via CANVAS” tab on the course menu. Then select Connectmath (Not ALEKS). Y**ou can use two weeks trial using the code: 417F6-0925D-476FE-0E923**

Using this code, you can access the eTextbook, homework, quizzes and tests. (Please do not purchase this code now. Please check the announcements in CANVAS for more detail)

* Looseleaf w/ Connect Access Card: ISBN: 9781260996296
* Connect Access Card: ISBN: 9781266168918

**Calculator:** A graphing calculator TI-84 or Excel or any app alternative to it.

**System Requirement for Connectmath:**

**Operating Systems:** Windows 7+, Mac OS X 10.11+

**Browsers:** Chrome60+, Firefox60+, Safari 11+(Mac only), No support for IE11 or Edge.

I recommend you use Google Chrome.

### Grading Scale:

Group Discussion/participation 8% (assigned through CANVAS)

Assignments 2% ((assigned through CANVAS)

Homework 30% (14 sets of homework through connectmath)

Quizzes 20% (best 5 out of 6 quizzes through connectmath

Tests 40% (2 tests through connectmath)

There will be a mandatory quiz called the "Ticket to take the Test" before each test. This quiz explains the rules/policies of the test. Your grade for the test will be counted as "0" without passing this quiz. Please Check Connectmath for the due dates of homework/Quizzes/tests. There is no make-up for quizzes and tests.

**Letter Grade:** 90-100% A, 80-89% B, 70-79% C, 60-69% D, 0-59%

**Special Accommodations:**

**If you are a student with a learning or physical disability or have special needs, please let me know as soon as possible what accommodations are needed. Also, please send me the documentation for the accommodation.**

**Please respect everyone in the classroom while communicating online. Please watch this video for more information.**<https://apps.3cmediasolutions.org/oei/modules/communication/story/>

Attendance Policy:This class is completely online (Asynchronous).

* If you fail to complete the Syllabus Quiz, introduce yourself to your class with your photo and Pre/Co-requisite knowledge check Test on connectmath by January 27th, I will assume that you are not interested in this class and you will be dropped from this class. Please check the CANVAS-modules for the syllabus quiz and introduce yourself. Access connectmath to complete the Pre/Co-requisite knowledge check Test.
* If you are inactive in this class and connectmath for 5 days, you will be dropped from this class.

### Academic Honesty Policy:

Some examples of Academic Dishonesty:

* Allowing other person to do your work.
* Using devices or aids that are not allowed during the quiz/test/exam.
* Copying from another or allowing another student to copy your own paper.
* Sharing the questions or answers of the quizzes/exams with the other person.
* Submitting another person’s work as your own work.

Please do not cheat. **Violations of these rules are grounds for disciplinary actions from the Disciplinary Officer which could result in suspension and expulsion from the college, see Board Policy 5500 and Administrative Procedure 5520.**

**Time needed for this class:** Students should spend an average of 10 hours per week for this class to receive an average grade in this class. Each group discussion/lab will take 30 minutes-1 hour or more than that depending on the topic. Plan on spending at least 2 hours per day to stay on track. Please make a study plan appropriate to your schedule. Decide on when and how you are going to complete this course successfully and stick with that plan.

**Design of this online class:**

Your weekly tasks are organized under “Modules” (tab on the left side). Please complete the tasks listed in that module for that week.

Each week I will assign certain chapters to read. Video lectures created by your instructor based on the chapter/sections will be under each weekly module and which goes along with the guided notes. You can use that to take down notes while reading or watching the video lectures. You can study according to your learning style. Then do the homework problems on Connectmath. Complete the quiz or test by the due date. Discussion topics will be assigned through CANVAS weekly Modules.

Assignments and discussions are assigned through CANVAS. Homeworks, quizzes, and tests are assigned through Connectmath.

The homework, quizzes, and tests are arranged in folders by week on Connectmath. There are 14 sets of homework problems, 6 quizzes, and 2 tests on connectmath. The best 5 quiz grades will be counted towards your final grade.

Discussions and assignments will be assigned through CANVAS. There will be a mandatory quiz called the "Ticket to take the test" before each test. This quiz explains the rules/policies of the test. You will receive the password for the test while taking this quiz. This quiz will be locked two hours before the test deadline. Your grade for the test will be counted as "0" without passing this quiz.

**Resources:**

[ConnemathCustomerSupport](https://www.connectmath.com/support/contact_support)

[Academic Help](https://www.sierracollege.edu/student-services/academic-help/index.php)

[TechSupport](https://www.sierracollege.edu/student-services/academic-help/student-tech-support.php)

[StatCenter/MathCenter](https://www.sierracollege.edu/student-services/academic-help/math-center.php)

[Food Pantry](https://www.sierracollege.edu/student-services/campus-life/pantry.php)

[Counseling](https://www.sierracollege.edu/student-services/counseling/index.php)

[Study Skills/Time Management](https://apps.3cmediasolutions.org/oei/modules/study-time/text/)

[CommunicationSkillforOnlineStudent](https://apps.3cmediasolutions.org/oei/modules/communication/)

Title IX: As an instructor, one of my responsibilities is to help create a safe learning environment for my students and for the campus as a whole. So that the college can provide students with appropriate support, services and assistance, I am ​encouraged to connect students who share any instances of sexual harassment, sexual violence, and/or other forms of prohibited discrimination with Title IX Campus Advocates. ​ The Title IX Campus Advocates are confidential employees available to provide counseling, crisis intervention, reporting options, and connection to campus and community resources.

Additionally, our local community organizations provide confidential support and resources to survivors of sexual assault and intimate partner violence and available 24/7.

* [STAND UP PLACER](https://www.standupplacer.org/) (Placer County) (800) 575-5352
* [Community Beyond Violence](https://cbv.org/) (Nevada County) (530) 272-3467
* [Sierra Community House](https://sierracommunityhouse.org/) (Tahoe/Truckee) (800) 736-1060
* [WEAVE](https://www.weaveinc.org/) (Sacramento County) (916) 920-2952
* [Sierra College Title IX help](https://www.sierracollege.edu/about-us/admin-services/title-ix/get-help.php)
* [Title IX Resources](https://www.sierracollege.edu/about-us/admin-services/title-ix/resources.php)

Disclaimer: This Online course is offered through CANVAS and using Connectmath. All information on the syllabus is subject to change if the instructor finds it necessary. Any changes will be announced through CANVAS announcement. This is a short version of the syllabus. Please check CANVAS for the complete syllabus with more detail.