| **Instructor**: Dr. Kagba Suaray | **Mode of delivery**: Alternative Mode Instruction |
| --- | --- |
| **Email**: [Kagba.Suaray@csulb.edu](mailto:Kagba.Suaray@csulb.edu) |  |
| **Course:** STAT 108 | **Class Number:** 7592 |
| **Teaching Associate:** Valeria Torres | **Graduate Assistant:** Manuel Quiroz |
| **Email:** [Valeria.Torres01@student.csulb.edu](mailto:Valeria.Torres01@student.csulb.edu) | **Email:** [Manuel.Quiroz@student.csulb.edu](mailto:Manuel.Quiroz@student.csulb.edu) |
|  |  |
| **Class Days/Times**: TuTh 1 – 1:50 | **Class Zoom ID and Link:** [**918 7090 5344**](https://csulb.zoom.us/j/91870905344?pwd=V1ZxMUJNbEs2VmYrdjJqbXpVMEhMdz09) **Password:** 794203 |

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| **Activity** | **Zoom ID and Link** | **Password** |
| TUESDAY 8am-9:50am | [**916 3118 6486**](https://csulb.zoom.us/j/91631186486?pwd=WUdxZmJqOXBPMDg3WFZ6d3RsSVBJZz09) | 10601 |
| TUESDAY 10am-11:50am | [**986 0125 9057**](https://csulb.zoom.us/j/98601259057?pwd=aHVuS0I1ZkVSbk1WbS9JZnhTWGxEdz09) | 10602 |
| THURSDAY 2pm-3:50pm | [**999 0800 1447**](https://csulb.zoom.us/j/99908001447?pwd=dXp1UmdhaEU5dksvTmJmKzhsM3lkZz09) | 10603 |
| FRIDAY 8AM-9:50AM | [**936 5695 4170**](https://csulb.zoom.us/j/93656954170?pwd=b2JwZmxhQ2xXSWgySk5iY2NKQ1NDUT09) | 10604 |
| FRIDAY 10am-11:50am | [**960 4713 7665**](https://csulb.zoom.us/j/96047137665?pwd=WTZHZkxzdFVNQk1uYlVXdzlmdDZ2UT09) | 10605 |

**Office Hours (tutoring, questions answered, maintenance etc.)**

Dr. Suaray: Tuesday and Thursday 12-1pm, before class using the lecture Zoom room: [**918 7090 5344**](https://csulb.zoom.us/j/91870905344?pwd=V1ZxMUJNbEs2VmYrdjJqbXpVMEhMdz09)

Valeria Torres: Monday and Wednesday 12 to 1pm: [**933 4801 7175**](https://csulb.zoom.us/j/93348017175Meeting)

Manuel Quiroz: Wednesday and Thursday 12-1pm in the lecture Zoom room: [**918 7090 5344**](https://csulb.zoom.us/j/91870905344?pwd=V1ZxMUJNbEs2VmYrdjJqbXpVMEhMdz09)

**Course Description**

Through this course, you will develop a solid understanding of basic techniques of data analysis. You will have a working knowledge of statistics that will enable you to comprehend and critique popular usage of the subject. You will learn how to use statistical tools that are useful and practical in the physical, life and social sciences, and even liberal arts.

**Prerequisites/Corequisites:** Appropriate Multiple Measures Placement or concurrent enrollment in STAT 90.

**Learning Outcomes**

1. Students develop the ability to evaluate scientific information critically, using analytical reasoning and quantitative skills.
2. Students critique and interpret data presented in appropriate graphical, numerical and/or verbal formats.
3. Students apply foundational statistical analyses to a variety of problems in their major field of study.
4. Students can construct and interpret confidence intervals.
5. Given summary data and a claim to be tested using a t or z-test, the student will determine the null hypothesis and the alternative hypothesis, identify the claim and assign it correctly to the null hypothesis or the alternative hypothesis, compute the test statistic, and conclude whether to accept or reject the claim. Lastly, the student will determine accurately the p-value for the hypothesis test and explain what it means given the context of the summary data and the conditions required for the t or z-test
6. Students strengthen their skills in reading, writing, oral communication, and critical thinking

**Required Course Materials:**

* **Coursepack:** STAT 108 STATISTICS FOR EVERYDAY LIFE: WORKBOOK WITH NOTES

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| * The hard copy from the [CSULB Bookstore](https://www.fortyninershops.net/) for $13.50 is best if you do NOT have technology for writing on the digital copy, or if you prefer a paper copy. * A digital copy from [RedShelf](https://csulb.redshelf.com/book/1607164/stat-108-statistics-for-everyday-life-1607164-none-zhou-and-suaray" \t "_blank) for $8.95 is best if you have technology for writing on the digital copy. * The [first 2 weeks of material](https://bbcsulb.desire2learn.com/d2l/common/dialogs/quickLink/quickLink.d2l?ou=650079&type=content&rcode=CSULB-3778866)are provided for you in case you cannot purchase the coursepack immediately. |  |
| * **Textbook** - **OPENSTAX** INTRO STATS E-BOOK & WEBASSIGN ACCESS –   This is an open source textbook, which means the book is free and available only online. You can access the book at OpenStax, and even download a PDF version.   * You will need WebAssign access to do homework online. You can purchase the WebAssign access code at webassign.net. The Course Key to connect you to my class is **csulb 5586 9317.** * There is a free 2-week trial so you can begin your homework even if you have not yet purchased the access code. Should you need additional guidance, please visit If you have other courses that use Cengage products, consider using **Cengage Unlimited:** [**https://www.cengage.com/unlimited/**](https://www.cengage.com/unlimited/) |  |

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| --- | --- |
|  | **Calculator**: **Graphing** calculator.   * + TI 83 will work for most, but not all functions.   + TI 84, TI Nspire, any Casio graphing calculator will work for all functions. |

## Course Structure and Delivery Mode

* BeachBoard (BB), CSULB’s Learning Management System (LMS), will be used to find assignments, take quizzes and exams, access grades, etc. Log into BB as soon as possible to read the home page, then click “content” and then click “start here” and complete the list of items. For BeachBoard, use the latest versions of [Google Chrome](https://www.google.com/chrome/) (PC and Mac), [Mozilla Firefox](https://www.mozilla.org/en-US/firefox/) (PC and Mac), Microsoft Edge (PC or Mac), or [Safari](https://www.apple.com/safari/) (Mac) for the best user experience and compatibility if you are downloading or viewing Microsoft documents from a course. If you need technical assistance at any time during the course or need to report a problem with BeachBoard, please contact the Technology Help Desk using their [online form](http://web.csulb.edu/divisions/aa/academic_technology/thd/contact/), by phone at (562) 985-4959*.*
* Zoom, a video conferencing tool, will be used during large lecture, activity sessions, and for student hours. You **MUST** log into Zoom using your CSULB email account. One way to do this is to access Zoom through your [Single Sign-On (SSO)](http://sso.csulb.edu/) dashboard, then click on the ZOOM chiclet.
* This term we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, the TA, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. If you have any problems or feedback for the developers, email [team@piazza.com](mailto:team@piazza.com). Find our class signup link at: <https://piazza.com/csulb/fall2020/8873>
* MS Teams will be used to upload any assignments or other work that needs to be graded. Please download the MS Teams app to your computer and/or tablet as soon as possible.
* WebAssign will be used for online homework. See above under “Textbook”.

## Course Communication

We will use BeachBoard, Microsoft Teams, and email to **make announcements,** communicate information, post assignments and corresponding due dates, and discuss course-related topics.  **Please note, it is your responsibility to check** BeachBoard’s dashboard **regularly**, asit will contain **important information about upcoming class assignments, activities, or concerns.**

**Zoom Norms for LECTURE**

* Sign in to Zoom with your CSULB account. Use your first and last name (+ pronouns, if desired) as your Zoom screen name. e.g., “Jane Doe (she/her).”
* Have relevant course materials open and available.
* During **lecture**, you should generally have your camera off. Videos of the lecture will be available for the class to view throughout the semester.
* Your mic should be **muted** unless called on by the professor. You should use the **raise hand** feature or type in the **chat box** in Zoom if you have a question.
* You will participate in polls and respond to questions in the chat box as we work through examples.

**Zoom Norms for ACTIVITY**

* During **activity**, we prefer that your camera be **on** (use a privacy background if you prefer), but understand this might not be possible. It is an important way to make this online environment become a community.
* When you get assigned to Breakout Rooms, quickly get on task. If needed, designate someone to share their screen. This is probably the most important time to turn on your camera.
* If there is background noise where you are Zooming from, please mute your mic if you’re not speaking.
* You will participate in polls and respond to questions in the chat box as we work through examples.
* You will be asked to work in Breakout Rooms with a small group of your classmates.
* Relevant questions (and answers) in the chat are fine.

**GRADING SCALE**

|  |  |
| --- | --- |
| **LETTER GRADE** | **PERCENTAGE** |
| **A** | 90-100% |
| **B** | 80-89% |
| **C** | 70-79% |
| **D** | 60-69% |
| **F** | 59% and below |

**Evaluation Components and their Points**

| **Evaluation Components** | **Points** |
| --- | --- |
| WebAssign (3 lowest dropped) | 176 |
| Activity: Participation & Attendance | 210 |
| Lecture: Participation & Attendance (4 lowest dropped) | 100 |
| Maintenace/Improvement | 65 |
| 3 Quizzes | 99 |
| 2 Midterms | 200 |
| Final Exam | 150 |
| **Total** | **1000 points** |

**Evaluation Components**

# WebAssign Online Homework

# A homework assignment will be posted in WebAssign after each class meeting, and is due by 11:59 pm on the due date. Homework is typically due on either Tuesday or Friday. See WebAssign for actual due dates. You are allowed up to 10 attemptson each open-ended answer without penalty. Questions that are **multiple choice** are limited to 1 less attempt than the number of answer choices. WebAssign will indicate whether an answer you enter is right or wrong right after you submit it.

# If you are unable to finish an assignment by the due date, you can request an **automatic extension** within WebAssign:

# You can make the request only **after** the assignment is due, and must make the request **within 14 days** following the original deadline;

# You make a request by **clicking on a button** at the top of the assignment, **not** to the instructor;

# You can make **one and only one** extension request **for each** assignment;

# Once your request is automatically approved by WebAssign, you must complete the homework within **7-days** of the original due date

# For all the questions you answer correctly during the extension period, you will earn only **25%** of the points, i.e., there is a 25% penalty.

Activity: Participation and Attendance

You will receive a grade each week for activity based on attendance, participation, and turning in the required work. The **rubric** on the last page of this syllabus will be used to assign you a score.

Lecture: Participation & Attendance

You will receive a grade for each lecture based on attendance and participation. There will be three (3) Zoom Polls: beginning, middle, and end of class. The **rubric** on the last page of this syllabus will be used to assign you a score.

# Maintenance/Improvement

Maintenance/Improvement portion of your grade is based on you maintaining a 70% grade on each midterm and quiz (assessment). If you receive a score below 70% on a particular assessment, you must show evidence of attending at least two tutoring sessions or office hours for at least one hour each before the next assessment, 13 points per assessment. SI counts for this requirement. You are required to inform the tutor that you are requesting M/I credit, and request that they fill out the following link:  <https://bit.ly/3h7N0Vn>

# Quizzes, Exams, Final

# The final exam is **comprehensive**, i.e., covers all major topics studied over the entire semester. It is based on the in-class examples, exercises, quizzes, homework problems, and midterm exams.

The dates of the quizzes, midterms (taken during activity) and final exam are highlighted in the course calendar on page 8 of this document. You should **NOT** make any other commitments on those dates that would conflict with the exams, even if it is something important personally. Do **NOT** assume you have legitimate reasons to miss any exam and deserve to be excused. **NO advanced or make-up exam** will be granted unless it is related to (1) absences excused by university policy (religious holidays, jury duties, or other university sanctioned or approved activities) or (2) compelling or unforeseeable reasons such as a serious illness or accident, or family death. **In either case, you must contact the instructor** in advance or at the earliest possible time to request for a special arrangement, and provide authentic evidence as needed. Failure to do so may result in your request being denied, or approved but with a penalty on your grade.

### Plagiarism/Academic Integrity Policy

*There is* ***zero tolerance*** *for cheating, plagiarism, or any other act of violation of Academic Integrity policy. Work that you submit is assumed to be original unless your source material is documented appropriately, using proper citation. Using the ideas or words of another person, even a peer, or a web site, as if it were your own, is plagiarism. Any individual or group caught cheating on homework, lab assignments, or any exam/quiz will be subjected to full extent of academic actions allowed under University regulations. At a minimum, any student caught violating Academic Integrity Policy will receive no credit for the work concerned and one grade lower letter grade. To learn more about the University policy on Cheating and Plagiarism, visit:* [Academic Information and Regulations-Cheating and Plagiarism](http://catalog.csulb.edu/content.php?catoid=5&navoid=369#cheating-and-plagiarism)

### University Withdrawal Policy

Class withdrawals during the final 3 weeks of instruction are not permitted except for a very serious and compelling reason such as accident or serious injury that is clearly beyond the student's control and the assignment of an Incomplete grade is inappropriate (see [Grades](http://www.csulb.edu/depts/enrollment/student_academic_records/grading.html)). Application for withdrawal from CSULB or from a class must be filed by the student [online](https://www.csulb.edu/student-records/dropping-and-withdrawing) whether the student has ever attended the class or not; otherwise, the student will receive a grade of "WU" (unauthorized withdrawal) in the course. More information regarding the University guidelines on Dropping and Withdrawing at: [Dropping and Withdrawal](https://www.csulb.edu/student-records/dropping-and-withdrawing#:~:text=Policy,after%20separation%20from%20the%20university.)

### Attendance and Participation Policy

*Attendance (joining the online class) and Participation (being alert and available if inquired by the instructor in contrast to being just online but unresponsive) are essential to your success in this class. In distance education courses you are required to attend and participate just as if you were in a face-to-face course. Therefore, attendance will be taken every session and the participation will be checked randomly during class, and activity session.*

**Student Grievance Policy**

Please check CSULB grievance policy and procedure at:

[Student Grievance Procedures](https://www.csulb.edu/academic-senate/policy-statement-07-01-student-grievance-procedures%C2%A0superseded-ps-95-21)

## Special Needs Accommodations

Online courses are required to meet ADA accessibility guidelines. Students with a disability or medical restriction who are requesting a classroom accommodation should contact the [Bob Murphy Access Center (BMAC) and also notify the instructor](http://web.csulb.edu/divisions/students/dss/). BMAC personnel will work with the student to identify a reasonable accommodation in partnership with appropriate academic offices and medical providers. Only approved BMAC petitions will be accommodated.

Any student who is facing academic or personal challenges due to difficulty in affording groceries/food and/or lacking a safe and stable living environment is urged to contact the [CSULB Student Emergency Intervention & Wellness Program](http://web.csulb.edu/divisions/students/studentdean/emergency_grant/). Additional resources are available via [Basic Needs Program](http://web.csulb.edu/divisions/students/basic_needs_program/index.html). The students can also email [supportingstudents@csulb.edu](mailto:supportingstudents@csulb.edu), call (562)985-2038, or if comfortable, reach out to the instructors as they may be able to identify additional resources. For mental health assistance please check out [CSULB Counseling and Psychological Services (CAPS)](http://web.csulb.edu/divisions/students/caps/).

<http://web.csulb.edu/divisions/students/caps/>

## Emergency Preparedness (add only if the class is hybrid)

Students are strongly encouraged to familiarize themselves with the [Personal Preparedness Instructions](https://www.csulb.edu/university-police/personal-preparedness) and other resources under “Emergency Preparedness” link on [CSULB University Police web site](https://www.csulb.edu/university-police).

## Disclaimer

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

## Tutoring

Take advantage of free peer tutoring (virtual) provided by Learning Assistance Center. More details coming soon.

**Additional Resources**

There are many services on campus to help you achieve success in your courses. Links to the following services are also available in BeachBoard course homepage under “CSULB Student Resources”:

* [Counseling and Phychological (CAPS)](http://web.csulb.edu/divisions/students/caps/)
* [Disabled Student Services](http://web.csulb.edu/divisions/students/dss/)
* [Enrollment Services](https://www.csulb.edu/enrollment-services)
* [Financial Aid](https://www.csulb.edu/financial-aid)
* [Learning Assistance Center](https://www.csulb.edu/academic-advising/the-learning-center)
* [Student Health Services](http://web.csulb.edu/divisions/students/shs/?utm_source=website&utm_medium=homepage&utm_content=footerlink&utm_campaign=web)
* [Tutoring at CSULB](http://web.csulb.edu/divisions/students/student_resources/tutoring.html)
* [University Library](https://www.csulb.edu/university-library)
* [Writers Resource Lab](https://www.csulb.edu/university-writing-center)

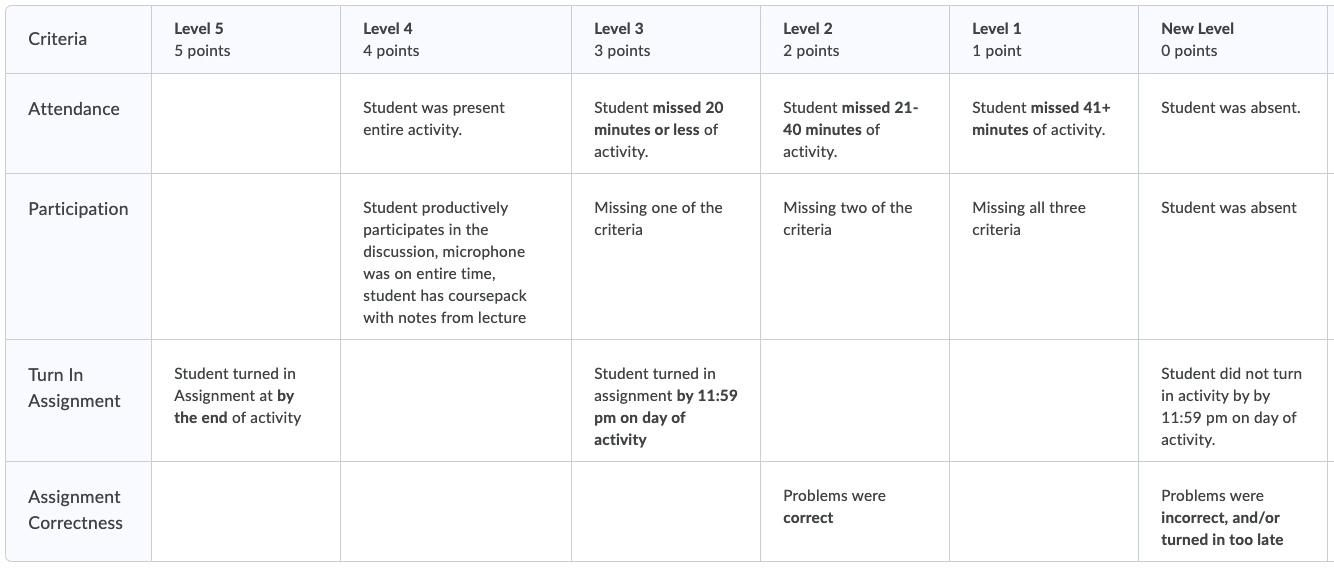
**Personal Assistance**

*Any student who is facing academic or personal challenges due to difficulty in affording groceries/food and/or lacking a safe and stable living environment is urged to contact the* [*CSULB Student Emergency Intervention & Wellness Program*](http://web.csulb.edu/divisions/students/studentdean/emergency_grant/)*. Additional resources are available via* [*Basic Needs Program*](http://web.csulb.edu/divisions/students/basic_needs_program/index.html)*. The students can also email* [*supportingstudents@csulb.edu*](mailto:supportingstudents@csulb.edu)*, call (562)985-2038, or if comfortable, reach out to the instructors as they may be able to identify additional resources*

Course Calendar (tentative)

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Dates** |  | **Sections** |
| 1 | Aug 25  Aug 27 |  | Vocab  Categorical Data |
| 2 | Sep 1  Sep 3 |  | Quantitative Data  Boxplots |
| 3 | Sep 8  Sep 10 |  | Review  z-scores, Empirical Rule, Percentiles |
| 4 | Sep 15  Sept 17 | Quiz during activity this week | Scatter plots, correlation  Regression, Predicted value |
| 5 | Sep 22  Sep 24 |  | More correlation and regression  Review |
| 6 | Sep 29  Oct 1 | Midterm 1 during activity | Probability  Random Variables |
| 7 | Oct 6  Oct 8 |  | Normal distribution  Continued |
| 8 | Oct 13  Oct 15 |  | Sampling distribution of population proportion  1 sample confidence interval for p |
| 9 | Oct 20  Oct 22 | Quiz during activity this week | continued  Intro to hypothesis tests |
| 10 | Oct 27  Oct 29 |  | 1 sample hypothesis tests for p  Continued |
| 11 | Nov 3  Nov 5 |  | Sampling distribution for difference of 2 pop. proportions  Review |
| 12 | Nov 10  Nov 12 | Midterm 2 during activity | 2 sample confidence interval for p  Review |
| 13 | Nov 17  Nov 19 |  | 2 sample hypothesis tests for p  Sampling distribution of population mean |
| 14 | Nov 24  Nov 26 |  | 1 sample confidence interval for mu  NO SCHOOL |
| 15 | Dec 1  Dec 3 | Quiz during activity this week | 1 sample hypothesis test for mu  Sampling distribution for difference of 2 population means |
| 16 | Dec 8  Dec 10 |  | 2 sample hypothesis tests for mu  Review |
| 17 | Dec 15 | Final Exam  12:30-2:30 | Zoom links will be provided closer to the date of the final |

**Activity Rubric:**



**Lecture Rubric:**

