**Class Syllabus**

**CLRE 251- Epidemiology 1**

**Summer 2022**

**(Thursdays, June 30 – September 8, 2022, 4:00pm – 5:50pm)**

**Course Units: 2**

**Lectures via Zoom**

## Course Instructor

## Richard Y. Calvo, MPH, PhD

## CREST Epidemiology Program

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## Office hours: Wednesdays 6:15-6:30 pm and upon request

## Teaching Assistant

## Rohini J. Patel, MD, MPH

## E-mail: [rjpatel@health.ucsd.edu](file://san1-isl1/158142/2021.11.24_DesktopBackups/Downloads/resu22scheduleandsyllabusneeded/rjpatel%40health.ucsd.edu)

**Course Description**

This course will teach the core concepts of epidemiology, emphasizing observational study designs, measurement of exposures, outcomes, and associations, and the concepts of bias, confounding, and interaction.

**Learning Objectives**

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

1. Describe the major objectives of epidemiology, particularly its goal to study the

distribution and determinants of disease in populations and how to prevent it.

1. Describe the structure of major epidemiologic study designs, as well as their strengths and weaknesses for studying various health outcomes.
2. Define and calculate measures of disease occurrence and measures of association that

quantify the relationship between exposures or risk factors and health outcomes.

1. Describe sources of bias in epidemiologic studies, including confounding, selection bias, and measurement error.
2. Understand the components of causality.

**Course Textbook & Resources**

Textbook: Gordis Epidemiology, Sixth Edition, David Celentano & Moyses Szklo, 2020.

ISBN-13: 978-0323552295, ISBN-10: 0323552293

**Course Format**

Due to the ongoing COVID-19 outbreak, Summer 2022 instruction will be delivered remotely. The following tools will aid in our remote learning:

**Zoom:** CLRE 251 will include Zoom-based lectures and lab sessions. To support online instruction during the COVID-19 outbreak, UCSD has provided all enrolled students with Zoom Pro accounts. If you have not yet claimed your account, please follow the instructions on this site https://blink.ucsd.edu/technology/file-sharing/zoom/index.html. When joining a Zoom session, please first sign-in to your UCSD Zoom account. Invitations to join Zoom-based lectures, lab sessions, and office hours will be posted on the Canvas calendar.

**Canvas:** All course announcements, slides, recordings, assignments (homework and labs), and exams will be distributed via Canvas. To ensure that you receive course announcements in a timely manner, please update your notification settings so that Canvas Announcements and Inbox Conversations are forwarded to your email address.

**Gradescope:** All assignments will be collected via Gradescope. You will receive an email notification that you were added to the course on Gradescope. Email addresses associated with your Canvas account can be used to sign into Gradescope.

Each class will be divided into two parts detailed below, a lecture and a lab session.

**Lectures**

The course will consist of 8 weekly lessons of approximately 1 hour each. Prior to each lesson, please complete the reading assignments.

**Lab Sessions**

Lab sessions are designed to be an interactive learning environment. Students will work in teams to complete lab assignments that are designed to apply concepts covered in lectures, assigned readings, and homework assignments. Each group member is responsible for contributing to the group work and should be prepared to discuss the results with the entire class. Lab sessions will be facilitated by the instructor.

**During Lab:** Groups will work together to complete the lab assignment. At approximately 5:30pm (at the facilitator’s discretion), each group will turn in one lab assignment, which will be graded. Lab assignments (one per group) must be turned in via Gradescope by the requested time. Late work will not be accepted. From 5:30 - 5:50pm, groups will present and discuss their answers.

**Lab Attendance:** If you are absent, you will be responsible for individually completing and turning in an alternative lab assignment **via Gradescope within 48 hours.**

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## Course Evaluation

##  Grading:

## Lab Assignments 30%

## Homework assignments 20%

## Midterm 20%

## Final Exam 30%

## TOTAL 100%

* **Midterm exam** will cover all material covered up until the midterm.
* **Final exam** will cover all material covered throughout the quarter.

***Exams will not be distributed*** but can be reviewed by appointment with the instructor.

* **Homework Assignments.** Three graded assignments will be distributed via Canvas and are to be turned in via Gradescope.
* **Lab Assignments.** Graded lab assignments are to be completed in groups (see above for procedures). Labs will be distributed via Canvas and are to be turned in via Gradescope.

Final letter grades will be determined using the scale below. There will be no extra credit assignments.

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| --- | --- | --- | --- | --- | --- |
| **A** | **B** | **C** | **D** | **F** | **Pass/Fail** |
| A+ = 97.0-100 | B+ = 87.0-89.9 | C+ = 77.0-79.9 | 60.0-69.9 | ≤59.9 | Pass ≥ 70 |
| A = 93.0-96.9 | B = 83.0-86.9 | C = 73.0-76.9 |
| A- = 90.0-92.9 | B- = 80.0-82.9 | C- = 70.0-72.9 |

**Student Evaluation of Course and Faculty**

Course and faculty evaluations provide important feedback to instructors to improve course content and teaching methodology. Teaching evaluations are also an important factor in faculty advancement, merit and promotion. To facilitate ease of completion of evaluations an electronic format has been implemented in Qualtrics. You will receive an email at the end of the quarter with the link to the questionnaire.

**Policies**

**Attendance Policy**: CREST/MAS program policy permits three absences without penalty. A fourth absence will result in a 15% reduction in your final grade. Please, be sure not to exceed 4 absences as you will have to drop and repeat the course.

**Missed Assignments**: If there are extenuating circumstances resulting in an absence for a presentation or assignment this must be communicated to Dr. Calvo via email preferably prior to the class, but no later than 24 hours after the absence. Otherwise, late assignments will not be accepted.

1. **Professionalism**: Please attend to all university policy and classroom etiquette procedures. Those not heeding the policies will be asked to leave the classroom immediately so as to not disrupt the learning environment. Please arrive on time, be attentive, and respectful for all class meetings. Students who habitually disturb the class by talking, arriving late, or other unprofessional behavior may suffer a reduction in their final grade.
2. **Academic Conduct**: All work submitted in this course must be your own and produced exclusively for this course. The use of sources (ideas, quotations, and paraphrases) must be properly acknowledged and documented. If in doubt, you are encouraged to review guidelines for the proper use of sources, as well as UCSD's policy on plagiarism and other forms of academic misconduct. You are responsible for knowing what constitutes academic misconduct at UCSD. UCSD’s definition of academic misconduct can found here: <http://academicintegrity.ucsd.edu/>. The official university policy on the Integrity of Scholarship can be found here: <http://senate.ucsd.edu/Operating-Procedures/Senate-Manual/Appendices/2>. If you suspect another student of academic misconduct, you are strongly encouraged to report it. Any suspicion of academic misconduct during an exam will be reported to the Office of Academic Integrity for review and process. The Office of Academic Integrity will determine whether or not a violation has been committed and the consequences of that violation. During exams you are expected to follow instructions. Failure to do so can be considered misconduct.
3. **Disability Access**: The University is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students must contact the Office for Students with Disabilities (OSD) who will provide an Authorization for Accommodation (AFA) letter verifying the disability. Students will receive the appropriate accommodations from the day that they provide Dr. Calvo with the AFA letter. Course accommodations cannot be applied retroactively.
4. **Title IX Compliance**: The University recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will not be tolerated. If you have been the victim of sexual misconduct, physical and/or psychological abuse, I encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator.