LD ARCH 12 Fall 2022: Environmental Science for Sustainable Development

Lectures online via zoom:
Zoom Lecture Link

Lab sections ***in person*** in Bauer Wurster Hall Room 315 (A or C) and in the field on/near campus
The list of instructors, sections taught, email addresses, and office hours are listed on BCourses LA12 home page.

SYLLABUS

COURSE EXPECTATIONS

As a four-credit class, the workload for LA12 should average 12 hours per week including 3 hours of **online lecture** and 2 hours of **in-person lab** (attendance required). The topics covered in lectures and labs will prepare you for assignments, quizzes, tests, and your final project.

To keep pace, follow the Schedule on *bCourses*, ask questions when unclear, alert us when challenges arise, and visit office hours often. Office hours signup is listed on our bCourses home page.

Our lecture and labs will follow "Berkeley time," meaning we will start ten minutes late (so the actual lecture will start at 1240p PT rather than 1230p). However, we will open the Zoom meeting at the scheduled time to get settled and be open for questions.

ONLINE TOOLS + LECTURES

bCourses

Visit *bCourses* for all essential course materials. You are responsible for staying up-to-date with course developments. Changes to course logistics or timely reminders will be broadcast via *bCourses Announcements*. To ensure you are notified, verify your *bCourses* settings. If any questions or issues accessing the site, contact your Graduate Student Instructor (GSI).

Touchstones for the course include this Syllabus and the course Schedule. On a weekly basis, we will update the *bCourses Modules* (see vertical menu on the left in bCourses) with deadlines and resources for the week's lectures, labs, assignments, and upcoming assessments.

There is no textbook for the class. Essential concepts will be introduced in lectures and discussed in labs, then explored in assignments. Required films and supplemental (not required) readings will be listed in the weekly *bCourses Modules* with links to sources. We have three required film viewings during Unit I. They should be viewed (on your own) by your lab session for the week they're listed (e.g. "Inconvenient Truth" should be watched by your first lab session on Week 2). As you watch the films, please take note

of major points and questions that arise to prepare for lab discussion and assignments. Major themes in the films overlap with lecture and labs, so they will be covered on assessments.

Lectures via Zoom

Lectures will be offered live via Zoom. Lectures will convey motivating questions and core concepts of the course by asking and answering *why and what* to learn, know, question, and consider in this evolving, interdisciplinary field. We encourage you to attend all live online lectures where polls and opportunities for questions and discussion will help you learn. Lecture materials (i.e. live and recorded video, presentation files) will serve as your guide to course topics. Presentation files and zoom video recordings will be posted by the end of the week to help you review. See the schedule for lecture topics and links to resources.

Find the Zoom link for lectures on *bCourses*. To setup your free Berkeley Zoom account and learn its basic features (e.g. chat, hand-raising), please consult these resources:

- UC Berkeley Zoom Resources

If you do not have reliable Internet connection with speeds over 3 Mbps (required for Zoom), use on-campus wifi. If you need a laptop to connect, please apply for support through UC Berkeley's Student Technology Equity Program, STEP.

Please follow zoom 'netiquette' guidelines to support everyone's learning:

- **Be present**. When possible, find a quiet space to be still and listen, shutdown email and other devices, and alert housemates that you're in class.
- **Direct attention to the lecturer.** Be punctual and mute your audio. If your background is busy, shutdown your video or use a virtual background.
- **Set your Zoom name** with preferred pronouns, so they reflect how you want to be addressed.
- **Participate! In lecture:** During polls, discussions, Q&A sessions, and breakout rooms, let's build relationships, focus on learning, and enjoy time together. Unmute and share your video as appropriate; we'll give cues about when to share. **In lab section:** Be there! Be on time! Don't dally en route to the field sites. Help with lab set up and bringing equipment from and back to the supply room (200 Bauer Wurster Hall), step forward to make measurements for the class, record your data, collaborate with your team-mates.
- **Show respect** in your chats and contributions. We understand it takes courage to convey questions and ideas. If you want to remain anonymous, chat privately to the GSI who can raise your question or concern to the lecturer. It's up to all of us to create a culture where different perspectives are valued. If in doubt, consider UC Berkeley's Principles of Community**.**
- **Be mindful** of how others may be affected by what you say; consider that everyone's experiences, opinions, traditions and cultures differ and that's valuable. Assume that others have good intentions.
- **Share responsibility** for collectively preventing acts of hate or hostility. Review campus guidance on keeping virtual spaces safe and secure. Consider strategies to recognize and avoid

microagressions. Do not share zoom links with anyone outside the class. Inform instructors if you witness acts of racism, stereotyping, gender bias, sexual harassment or threats.

Communicating with instructors and classmates

For questions related to course content and logistics, please ***search for answers in bCourses first***. For personal questions (e.g. your attendance, grades, review of your quiz answers) sign up for office hours or email your section's GSI with prefix "[LA12]".

We encourage you to visit ***virtual or in person office hours*** with the instructor and GSIs during the course. Office hours are listed on our bCourses home page and you are welcome to use the "signup" link for any instructor to schedule a time slot for an available zoom meeting. We enjoy discussing questions and concerns with you.

LAB SESSIONS

Attendance at lab sessions is required. Without attendance, you will not be able to complete assignments. Lab sessions will be led by your section's GSI *in person at the scheduled classroom and section time*. For everyone's safety, we recommend that you wear masks when you are inside the classroom during the lab, but in Unit 1, we will spend a lot of time outdoors doing the labs. Masks are not required outdoors, but you are free to wear one, as we'll be in close proximity, working in groups and sharing equipment.

In lab sessions, you will learn how to operate scientific equipment, form groups to complete assignments at specific sites on campus, and have opportunities to take measurements, discuss issues, gain clarity and work on assignments. Lab sessions in the first half of the course (Weeks 2-9) prepare you to investigate a "real world" problem in a collaborative team project during the second half of the course (Weeks 10-15).

For most labs, you will venture outside. This may involve walking off paved areas, so please dress accordingly. Initial lab instructions and meeting points are at your section classroom in 315 Wurster (the Landscape Architecture Studio). You will need a card key to access 315 Wurster, which you can request in room 477 Wurster. Bring your student ID and your Cal Central schedule showing you are enrolled in LA 12. Alternatively, show up a few minutes early, wait for someone else to enter or leave the studio, and enter when they open the door.

If circumstances arise that limit your ability to attend a particular lab session, you must notify your GSI as soon as possible so we can arrange appropriate accommodations. If you are sick, do not come to lab, but notify your GSI. It may be possible to arrange for you to attend another lab section during the same week, but you must notify both GSIs (yours and the one you'll attend) *at least one day prior to the requested section time*. Unit II will involve collaborative teamwork during lab sessions; you must attend to keep pace with your group, but if you are sick, please communicate with your GSI and your teammates as soon as possible.

In addition to participating in the two-hour lab session, you should expect to spend time preparing for the lab by reading the lab instructions before each lab section as well as additional time to complete assignment questions, refine results, and submit the lab assignment after the lab section. During Weeks 2-9, you will be responsible for submitting a **lab assignment** each week. The detailed instructions for each lab, required submissions and deadlines will be explained in lab and posted to *bCourses.* It is your responsibility to confirm expectations and deadlines (and ask for clarification in class) for lab assignments. If you're feeling lost, you're probably not the only one -- it's better to "come clean" so we can clarify instructions for everyone and help you keep pace.

ASSESSMENT

The course is not designed to 'weed out' students or make you compete with each other, but to provide multiple avenues for you to understand the concepts, actively learn, and do well. Theory suggests people learn when engaged in immersive activities, such as measurement and observation or interacting with each other, rather than simply being lectured to or passively looking at a computer screen or reading notes.

Course assessments build upon experiences in lectures and labs, starting with opportunities to **engage in self-assessment** via lecture and lab activities. Your active participation will help everyone gauge progress in the course, so please *contribute to discussion***.** Engage in lecture Q&A sessions, labs, office hours -- we encourage and track your participation. Actively seeking to understand, question and review course materials will help you prepare for **graded assessments**: the assignments, quizzes, tests and your capstone final project. It's in your best interest to not only attend lectures and labs, take notes and review assigned materials, but also reflect on these experiences, acknowledge confusion, ask questions, proactively engage in discussion, form study groups and seek help from GSIs.

Weighting of Course Assessments toward Final Grade (total of 100%)

Graded Assessment	**Weight**
Assignments (mainly during Unit I)	35%
Quizzes (20%) and Tests (10%)	30%
Final Project (during Unit II)	30%
Participation	5%

Quizzes are scheduled regularly after each two-week theme, as indicated in the Schedule. They will be **timed, multiple choice questions** offered on *bCourses* to assess your mastery of concepts covered in the previous four lectures. Your first quiz will be a practice, covering this syllabus, worth 1 point. Thereafter,

you have five quizzes, each worth 4 points. Attend lectures and labs, and keep upcoming quizzes in mind. Quizzes will be available on bCourses for 24 hours starting at noon (PT) on Monday. You may complete the quiz at any time during the 24 hour period. Once you start the quiz, you will have a limited time period to complete it. You only have one attempt to complete each quiz, meaning you cannot start and return to it later, so be sure to complete and submit the quiz once you start, see bCourses for details.

Unit Tests are cumulative and synthetic for each unit. As indicated on the Schedule, Unit I covers four themes, Unit II only two. Tests will also be offered on *bCourses* for a limited time. Questions will be a combination of short-answer and multiple-choice. We will hold review sessions during lecture at the end of each unit.

Quizzes and tests will be offered online with open notes and open Internet, but *answers must be your own* without consulting any other individual. GSIs will be available via email during specific times (to be announced) for any urgent issues with these exams.

Assignments will assess your progress in applying knowledge and skills learned in Unit I. You will work on your assignment during lab section time. Submission of final lab assignments will be due ***24 hours prior to your lab section***, as indicated on bCourses.

During the last six lab sessions of the course, you will form groups and conduct a "capstone" independent **team research project**. Combining tools and lessons learned through the semester, you will investigate a sustainability issue using scientific methods, as reviewed and approved by your peers and the instructor. Team projects will open opportunities to observe and understand your own local environment or investigate topics and data with relevance to your academic goals and interests. The course ends with final project oral presentations and paper.

Participation. You can earn *a maximum of five percentage points* toward your final grade by:

- Actively engaging in lab activities, actively supporting and collaborating with other students in your section
- Participating in online lecture activities (such as polls, Q&A, break-out groups)
- Coming to office hours with questions

POLICIES

Late policy

Please submit your assignments on time. Deadlines are automated on *bCourses* and your timely submittal helps GSIs return grades efficiently. If you miss the deadline, late submissions will be penalized with a *5% grade reduction per 24 hours after the deadline.* Late assignments will not be accepted after 10 days. No late quizzes, tests, or project submissions will be accepted.

If circumstances arise that prevent you from taking or completing an assignment, quiz, or test, please notify your GSI *as soon as possible* so we can arrange appropriate accommodation where justified.

Academic Integrity

UC Berkeley's honor code states:

> *As a member of the UC Berkeley community, I act with honesty, integrity, and respect for others.*

Learning is a social and interactive process. Therefore, we encourage you to study with peers, learn from each other, and work together in labs and collaborate on final projects. However, when you submit assignments, quizzes or tests, *the work must be your own* -- you must complete it yourself, applying your own thoughts, writing your own words, and submitting your own calculations. If you collaborate with a classmate in completing your assignment, you must include in the assignment and as a comment the names of the students you collaborated with. If you copy, quote or paraphrase others, you must acknowledge your sources, **including collaborators**. Distinguishing your work from the contributions of others through proper citation is fundamental to academic integrity and the work and spirit of science, which builds on itself. Copying text or ideas without proper citation constitutes *plagiarism*, *an infraction of our honor code.*

The UC Berkeley Code of Student Conduct defines plagiarism as follows:

> *Plagiarism is defined as the use of intellectual material produced by another person without acknowledging its source. This includes, but is not limited to: (a.) Copying from the writings or works of others into one's academic assignment without attribution, or submitting such work as if it were one's own; (b.) Using the views,opinions, or insights of another without acknowledgment; or (c.) Paraphrasing the characteristic or original phraseology, metaphor, or other literary device of another without proper attribution.*

Any detected plagiarism will result in a *failing grade* for the assignment, possibly the class, and usually further disciplinary action. Likewise any cheating on quizzes or tests, including communication with others about exam contents during the open exam window, would result in a *failing grade* and further disciplinary action.

Privacy and Security

Except for invited lecturers, only Berkeley students and instructors will join our virtual sessions. To reduce distractions and preserve your privacy, students are encouraged to use a virtual zoom background. To address your privacy considerations, UC Berkeley Office of Ethics asserts that:

- Zoom collects only the user data that is required to provide you Zoom services.
- Data obtained will not be used for any advertising.
- Zoom is compliant with Federal Education Rights and Privacy Act (FERPA) and the California Consumer Protection Act (CCPA).

Recordings and Chat

Instructors will verbally notify students at the start of recorded Zoom sessions and the window will indicate recordings in-progress. Recordings will only be shared with UC Berkeley students and instructors for educational purposes. You can opt out of video and audio participation in recordings by muting your audio and disabling your video. Zoom chats may be downloaded by instructors to support course

instruction, but will not be shared with the class. If you want to ask a question but remain anonymous to the class, please share a private chat with your instructor.

To prevent zoom-bombing and cyberattacks, please do not share links to zoom meetings with anyone outside the class.

Inclusivity and Accommodations

We are committed to supporting your learning according to your needs. If you anticipate or experience any barriers to your learning, please consult the Disabled Students Program for resources and guidance on how to request services and accommodations to any disability. Students with Letters of Accommodation from DSP, should email the file to Professor Mathias Kondolf and your section GSI *as soon as possible* and feel free to visit office hours to discuss concerns, so we can meet your needs and support your learning. It is the student's responsibility to contact the instructors and to provide timely notice of the need for accommodations.

For any concerns about your progress in the course and limitations you're experiencing, we welcome you to discuss concerns with your instructor or GSI, whether in-person, via email or virtual office hours. You do not need to disclose private personal information. For more information about accommodations, scheduling conflicts related to religious creed or extracurricular activities, please see the Academic Accommodations hub.