

SYLLABUS

COURSE INFORMATION

Course title: Creative Technology
Course number: CHEN 1000
Location: ECCS 1B28
Meeting day/time: TTh 12:30 – 1:45 PM

INSTRUCTOR INFORMATION

Professors: Katie O’Harra, Kristi Anseth, Al Weimer, Wilson Smith
Email: Course Coordinator: katie.oharra@colorado.edu
Office: JSCBB D1B18
Office Hours: Help Sessions/Office Hours Schedule will be posted on Canvas
Grad TA

DESCRIPTION

Delve into cutting-edge topics such as the science of climate change, biotechnology, biomedical devices, advanced materials, renewable energy, and environmental sustainability! This course will introduce undergraduate students to the most recent concepts in technology and how these concepts impact all aspects of life, including human health and the health of the planet.

REQUIRED MATERIALS

- Readings will be assigned in advance on Canvas, but no textbook is required.
- iClicker *is required*. Additional information about the student app can be found here: [CUClickers / iClickers | Office of Information Technology](#)

STUDENT LEARNING OUTCOMES

By the end of this course, students will:

- Better understand a broad array of cutting-edge technologies.
- Gain science and technology literacy, both with respect to better understanding basic concepts and finding reliable information.
- Think critically about technology and the way technology interacts with government policies, culture, and societal equity.
- Understand the scientific method and how to interpret quantitative data from visualizations.

GRADE ELEMENTS

Midterm Exams: There will be four in-class module assessments during the semester; dates are listed on the Course Schedule. Each will cover the material assigned since the previous exam. There will be no make-up exams*.

Final Exam: The final exam is cumulative, set for Tuesday, April 28, from 4:30-7pm.

Note: All exams will consist of multiple-choice questions; the instructor will provide you with a Scantron sheet. You should bring a pencil and your student ID to all exams.

Canvas Reading Quizzes: Reading quizzes will be posted with deadlines distributed throughout the semester (*before class on Tuesday or Thursday*). In general, some readings provide details or context before we discuss the topics further in class. Occasionally, we will cover something in class without a specific corresponding reading or before you read about it, but an attempt will be made to keep the latter to a minimum. Quizzes are found and submitted on Canvas. Each quiz will be open for approximately 5 days; once you start the quiz, you will have 30 minutes to complete it. Therefore, you should do the reading before opening the quiz. There will be approximately 8-10 quizzes throughout the semester, and they will not be spaced evenly.

Clickers: Some classes will include clicker questions. Many clicker questions will be survey-type questions; on these, you will receive full credit for responding to the question. Some clicker questions will be “quiz” type questions. Here, you will receive 2 points for responding to the question, and one additional point for the correct answer. Up to 10% of clicker points may be dropped to allow for a small number of missed classes or missed questions.

Project: One creative project will be assigned with checkpoints throughout the semester, which will connect and contextualize creative technologies seen in your home discipline or primary field of study.

GRADE FORMULA

Midterm exams	15% each*
Class Participation (Clickers)	10%
Project/Report	10%
Cumulative final exam	20%

**If your reading quiz average is >70%, the lowest midterm will be dropped and each of the remaining exams will count 20%.*

Your final grade will be based on the average you accumulate, earned through completion of the above assessments and in-class activities. *The following scale can be adjusted during the semester, but only in your favor.*

Average > 90%	A/A–
90% > Average > 80%	B+/B/B–
80% > Average > 70%	C+/C/C–
70% > Average > 60%	D+/D/D–
Average < 60%	F

Note: No make-up exams; no make-up clickers; no make-up reading quizzes!

POLICIES

Attendance:

Class attendance is required. This means that you are responsible for knowing what is discussed during lecture. Class notes will be posted after class on Canvas, but there may be gaps in the notes and information only disseminated during class.

Academic Integrity: You are responsible for knowing and adhering to the academic integrity policy of your respective school, program, department, college, etc. In particular, you must abide by the CU Honor Code including the prohibition against unauthorized assistance. This includes doing your own work on exams, homework, clicker questions, quizzes, etc. Please see AI policy below, and CU Boulder resources on [AI and Academic Integrity/Honor Code](#).

Class Communication:

Email is deemed by the University of Colorado an official method of communication. Therefore, if something important is sent to the class email and you do not receive this email or do not read your email, you may be missing important course-related information. This includes but is not limited to information related to changes/additions to assignments, exam schedule changes, course syllabus modifications, etc. Furthermore, any announcement made in class is official; if you are absent when an announcement is made you are still responsible for this information. An effort will be made to announce this on Canvas as well and through post-lecture slides, but is not guaranteed. Students may email the CHEN1000 faculty course coordinator (katie.oharra@colorado.edu) throughout the term for general questions or course clarifications (expect response within 1-2 business days). More specific or detailed questions may require connecting with the professor teaching the current module (see Canvas), either by email or in office hours.

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the [Honor Code](#). Violations of the Honor Code may include but are not limited to: plagiarism (including use of paper writing services or technology [such as essay bots]), cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. Understanding the course's syllabus is a vital part of adhering to the Honor Code.

All incidents of academic misconduct will be reported to Student Conduct & Conflict Resolution: StudentConduct@colorado.edu. Students found responsible for violating the Honor Code will be assigned resolution outcomes from Student Conduct & Conflict Resolution and will be subject to academic sanctions from the faculty member. Visit [Honor Code](#) for more information on the academic integrity policy.

Accommodation for Disabilities, Temporary Medical Conditions, and Medical Isolation

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or DSinfo@colorado.edu for further assistance. If you have a temporary medical condition, see [Temporary Medical Conditions](#) on the Disability Services website.

If you have a temporary illness, injury or required medical isolation for which you require adjustment, you must contact the course coordinator (katie.oharra@colorado.edu) in advance of any missed classes or assignment deadlines, in order to determine a resolution for missed content during illness-related absences. Due to FERPA and student privacy laws, it is important to us that you please keep personal medical information and details private (you are not required to share "doctor's notes" or appointment verifications with instructors, nor share diagnoses/the specific illness).

Accommodation for Religious Obligations

Campus policy requires faculty to provide reasonable accommodations for students who, because of religious obligations, have conflicts with scheduled exams, assignments, or required attendance. Please communicate the need for a religious accommodation in a timely manner. In this class, notify the faculty course coordinator (katie.oharra@colorado.edu) of any anticipated religious obligations within the first two weeks of the semester, so a fair appropriate accommodation can be planned in advance. See the [campus policy regarding religious observances](#) for full details.

Preferred Student Names and Pronouns

CU Boulder recognizes that students' legal information does not always align with how they identify. If you wish to have your preferred name (rather than your legal name) and/or your preferred pronouns appear on your instructors' class rosters and in Canvas, visit the [Registrar's website](#) for instructions on how to change your personal information in university systems.

Classroom Behavior

Students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote, or online. Failure to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, marital status, political affiliation, or political philosophy.

Additional classroom behavior information

- [Student Classroom and Course-Related Behavior Policy](#).
- [Student Code of Conduct](#).
- [Office of Institutional Equity and Compliance](#).
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- [Office of Institutional Equity and Compliance](#).

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation

CU Boulder is committed to fostering an inclusive and welcoming learning, working, and living environment. University policy prohibits [protected-class](#) discrimination and harassment, sexual misconduct (harassment, exploitation, and assault), intimate partner abuse (dating or domestic violence), stalking, and related retaliation by or against members of our community on- and off-campus. The Office of Institutional Equity and Compliance (OIEC) addresses these concerns, and individuals who have been subjected to misconduct can contact OIEC at 303-492-2127 or email OIEC@colorado.edu. Information about university policies, [reporting options](#), and [OIEC support resources](#) including confidential services can be found on the [OIEC website](#).

Please know that faculty and graduate instructors are required to inform OIEC when they are made aware of incidents related to these concerns regardless of when or where something occurred. This is to ensure the person impacted receives outreach from OIEC about resolution options and support resources. To learn more about reporting and support a variety of concerns, visit the [Don't Ignore It page](#).

Mental Health and Wellness

The University of Colorado Boulder is committed to the well-being of all students. If you are struggling with personal stressors, mental health or substance use concerns that are impacting academic or daily life, please contact [Counseling and Psychiatric Services \(CAPS\)](#), located in C4C, or call (303) 492-2277, 24/7.

Acceptable Use of AI in This Class

Generative artificial intelligence tools—software that reproduces text, images, computer code, audio, video, and other content—have become widely available. Well-known examples include ChatGPT for text and DALL•E for images. This statement governs all such tools, including those released during our semester together.

Keep in mind that the goal of gen AI tools is to reproduce content that seems to have been produced by a human, not to produce accurate or reliable content; therefore, relying on a gen AI tool may result in your submission of inaccurate content. It is your responsibility—not the tool's—to assure the quality, integrity, and accuracy of work you submit in any college course.

If gen AI tool use is suspected in completing assignments for this course in ways not explicitly authorized, I will follow up with you. I may contact the Office of Student Conduct & Conflict Resolution to report suspected Honor Code violations. In addition, you must be wary of unintentional plagiarism or data fabrication. Please act with integrity, for the sake of both your personal character and your academic record.

While you may use generative artificial intelligence (Gen AI) tools to help you learn in this course (limited to grammar checks, generating ideas or outlines, or understanding content), you may not submit any work for any assignment that was produced by Gen AI tools. All final work submitted in this class must be your own, student-generated, original work. If you use gen AI tools on assignments in this course, document your usage with the [Chicago Manual of Style](#).