

CHEN 1300: Intro to Chemical Engineering Fall 2020 Syllabus

Instructor: Dr. Wendy Young wendy.young@colorado.edu
Office: JSCBB D1B20 Phone: 303-492-8721

Class Meetings: Mon 4:40-5:30pm and 5:50-6:40pm in BIOT A115
- You must attend your section either in person or remotely
- Cohort DC: Aug 31, Sept 21, Oct 5, Oct 19, Nov 2, Nov 16
- Cohort Marvel: Sept 14, Sept 28, Oct 12, Oct 26, Nov 9, Nov 23

Pre-Class Videos: Available by 8am on Mondays before class; students must write a short Reflection on each week's video(s)

Office Hours: By appointment, via zoom

TA: Adriana Nicole Robinson Adriana.Robinson@colorado.edu

Text: NOT REQUIRED, just recommended: *A Mind for Numbers: How to Excel at Math and Science* by Barbara Oakley, Penguin, New York, New York, 2014.

Course Content and Learning Objectives

- Learn about careers for chemical and chemical & biological engineers (ChBE)
- Get an overview of the industries where ChBEs work
- Learn about the ChBE curricula and optional emphases at CU
- Learn about special programs at CU of interest to ChBE students
- Gain insight into contemporary ChBE processes and issues
- Assess the impact of engineering solutions
- Examine ethical dilemmas that chemical and biological engineers face
- Get an introduction to ChBE faculty, students, and professionals
- Learn about problem solving strategies, wellness, and learning techniques

Assignments and Grading Basis

Assignment		Due
13 Reflections on Pre-Class Videos (3% each)	39%	11:59pm on Monday, Nov 30
Group Video #1: Staying Balanced	12%	11:59 on Monday, Oct 5
Group Video #2: ChBE Topic	12%	11:59 on Monday, Nov 2
Career Interest Paper	25%	11:59 on Monday, Nov 16
Group Video #3: Ethical Issue	12%	11:59 on Monday, Nov 30
	100%	

Grade Distribution

90% - 100% A- through A
80% - 89% B- through B+
70% - 79% C- through C+
60% - 69% D- through D+
≤ 59% F

Assignments must be turned in on time!

- MUCH flexibility has been given by assigning videos in groups and making Reflections papers due at the end of the semester.
- DO NOT WAIT UNTIL THE LAST MINUTE; get work done ahead of time in case you get sick!
- Assignments turned in up to a week late will be assessed a 50% penalty
- No credit will be given for assignments turned in over one week past the due date
- There is no penalty for turning in an assignment early!

Reflections on Pre-Class Videos

- While these are not due until Monday, Nov 30 at 11:59pm on Canvas, **it is STRONGLY recommended that you turn these in weekly** (especially in case you get sick later)
- Please reflect on the content of the pre-class video(s)
 - o What was said?
 - o What did you learn from it?
 - o How does this apply to your life?
- Format
 - o State the Video Topic – for instance, “COVID-19 Info” or “4 Speakers: (insert 4 speaker names here)”
 - o Your name
 - o Approximately half a page typed
 - o Can write informally in bullet points or using full sentences in paragraphs

Group Videos

- You will be placed in a group of 3 people; students will be placed in a different group for each video so as to get to know more people
- Videos 5-8 mins, each person must talk at least 1 min
- Slides must be used for at least part of the presentation

Career Interest Paper

- This will be an individual paper exploring your career goals and the steps to get there

Attendance

- Please make every effort to attend class either in-person or remotely. This is your chance to talk about the subjects with peers and the instructor.
- Class attendance will not be taken, but again you are most strongly encouraged to attend

Ethical Standards

This course follows the University Honor Code.

NO RESUBMISSION OF WORK, including your own work that you turned in for a different CU, high school, or other class. Resubmission and plagiarism are grounds for failure of the class.

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, 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. All incidents of academic misconduct will be reported to the Honor Code (honor@colorado.edu); 303-492-5550). Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic

sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found at the [Honor Code Office website](#).

Recording of Lectures and Office Hours

All lectures will be recorded. Class recordings will not be distributed outside the audience of students, instructors, and other class staff. Access to a recording is limited to class participants and staff through one's CU Boulder IdentiKey. Only the course instructor and staff are authorized to record a class; students are not authorized to record a class through any means.

Student Comportment on Zoom

The instructor strongly recommends but does not require students to use their video when attending zoom lectures; being able to see one another strengthens our community. Students should mute themselves except when they are asking or answering a class question. Students are expected to present themselves as if each individual were actually in the classroom (i.e. be respectful, wear appropriate attire).

Course Communication

All class slides, homework, and videos will be placed on Canvas for students to download.

Classroom Behavior

Both students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote or online. Those who fail 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, political affiliation or political philosophy. For more information, see the policies on [classroom behavior](#) and the [Student Code of Conduct](#).

Requirements for COVID-19

As a matter of public health and safety due to the pandemic, all members of the CU Boulder community and all visitors to campus must follow university, department and building requirements, and public health orders in place to reduce the risk of spreading infectious disease. Required safety measures at CU Boulder relevant to the classroom setting include:

- maintain 6-foot distancing when possible,
- wear a face covering in public indoor spaces and outdoors while on campus consistent with state and county health orders,
- clean local work area,
- practice hand hygiene,
- follow public health orders, and
- if sick and you live off campus, do not come onto campus (unless instructed by a CU Healthcare professional), or if you live on-campus, please alert [CU Boulder Medical Services](#).

Students who fail to adhere to these requirements will be asked to leave class, and students who do not leave class when asked or who refuse to comply with these requirements will be referred to [Student Conduct and Conflict Resolution](#). For more information, see the policies on [COVID-19 Health and Safety](#) and [classroom behavior](#) and the [Student Code of Conduct](#). If you require accommodation because a disability prevents you from fulfilling these safety measures, please see the "Accommodation for Disabilities" statement on this syllabus.

Before returning to campus, all students must complete the [COVID-19 Student Health and Expectations Course](#). Before coming on to campus each day, all students are required to complete a [Daily Health Form](#).

Students who have tested positive for COVID-19, have symptoms of COVID-19, or have had close contact with someone who has tested positive for or had symptoms of COVID-19 must stay home and complete the [Health Questionnaire and Illness Reporting Form](#) remotely. In this class, **if you are sick or quarantined please immediately email Dr. Young.**

Accommodation for Disabilities

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.

Preferred Student Names and Pronouns

CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation

The University of Colorado Boulder (CU Boulder) is committed to fostering an inclusive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (harassment, exploitation, and assault), intimate partner violence (dating or domestic violence), stalking, or protected-class discrimination or harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or cureport@colorado.edu. Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources can be found on the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, dating and domestic violence, stalking, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

Religious Observances

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please talk with the class instructors if you have a religious conflict. See the [campus policy regarding religious observances](#) for full details.

CHEN 1300 ~ Intro to Chem Eng ~ Fall 2020 Schedule

(Subject to Change)

Week	Date	Pre-Class Video(s)	In-Class Workshop	Assignments Due
1	24-Aug	None	Zoom Intro	---
2	31-Aug	Curriculum / Fields	DC In-person #1: Discussion of CHEN & CBEN Programs	Reflection on Pre-Class Video (recommended to turn in now)
3	7-Sep	Labor Day - no class		---
4	14-Sep	COVID-19 Info	Marvel In-person #1: Discussion of CHEN & CBEN Programs	Reflection on Pre-Class Video
5	21-Sep	Mental Health	DC In-person #2: How to Be Successful at CU	Reflection on Pre-Class Video
6	28-Sep	How to Learn Part 1	Marvel In-person #2: How to Be Successful at CU	Reflection on Pre-Class Video
7	5-Oct	How to Learn Part 2	DC In-person #3: How to Learn	Reflection on Pre-Class Video Group Video #1: Staying Balanced
8	12-Oct	Alumni Videos: Pick Your Top 4	Marvel In-person #3: How to Learn	Reflection on Pre-Class Video
9	19-Oct	Alumni Videos: Pick 4 New Ones	DC In-person #4: Careers in CHEN and CBEN	Reflection on Pre-Class Video
10	26-Oct	Get Involved at CU! Part 1	Marvel In-person #4: Careers in CHEN and CBEN	Reflection on Pre-Class Video
11	2-Nov	Get Involved at CU! Part 2	DC In-person #5: Getting Involved & Professional Development	Reflection on Pre-Class Video Group Video #2: ChBE Topic
12	9-Nov	History of CHEN and CBEN	Marvel In-person #5: Getting Involved & Professional Development	Reflection on Pre-Class Video
13	16-Nov	Ethics	DC In-person #6: History / Diversity / Ethics discussion	Reflection on Pre-Class Video Career Interest Paper
14	23-Nov	Alumni Videos: Pick 4 New Ones	Marvel In-person #6: History / Diversity / Ethics discussion	Reflection on Pre-Class Video
15	30-Nov	Alumni Videos: Pick 4 New Ones	Zoom End of Semester Discussion	Reflections on Pre-Class Videos DUE Group Video #3: Ethical Issue
16	7-Dec	Day Off (study for finals!)	---	---
17	14-Dec	NO FINAL!!		