

# Chemical Engineering 442

Fall 20xx

Days / Time TBD

Location TBD

**Instructor:** Dr. Adrianna Brush  
Harshbarger 134b  
626-5259, [adriannabrush@email.arizona.edu](mailto:adriannabrush@email.arizona.edu)

**TA:** TBD email TBD

## Office Hours:

Drop in or by appointment. All in Harshbarger 134B  
Dr. Brush: 442 only: Days / times TBD. Open office hours for all my classes: Days / Times TBD (not guaranteed as I sometimes have meetings or other appointments at this time).

**Text:** Seider, et. al. 2016. Process Design Principles Wiley and Sons (4<sup>th</sup> edition)

The Required Text is available through the Bookstore as an ebook. The e-book is \$50.00 to buy forever. The e-book may require VitalSource Bookshelf software (free) to use.

## Supplemental Texts and Materials:

Peters and Timmerhaus.1991. Plant Design and Economics for Chemical Engineers. McGraw Hill

Turton, et al. 2003. Analysis, Synthesis and Design of Chemical Processes. Prentice Hall

Ulrich, 2004. A guide to Chemical Engineering Design and Economics

## Grade Breakdown:

Homework and In Class Exercises - 20 %

Project - 40 % (Grade sheets and guidelines will be handed out in advance.)

- 1) Team charter and meeting minutes through CATME – 5%
- 2) Progress report presentation – 5% - turn presentation electronically and present to instructor
- 3) Draft of written report– 5% - electronically as PDF
- 4) Final report – 20%
- 5) Peer Evaluations – 5%

Midterm, Date TBD, during class – 15%

Final — Day, Date TBD – 10am - 20 %

In class attendance and participation - 5%

## Late Policy:

Homework – 10% penalty per day (24 hour period)

Project drafts and reports – 10% penalty per 12-hour period.

## Grading Scale and Policies

Letter grades on reports or assignments will not be determined; a final letter grade will be given at the end of the semester instead. This course will be graded on a straight scale as follows:

Total Percentage of Points Earned	Grade
90 – 100%	A
80 – 89.99%	B
70-79.99%	C
60-69.99%	D
< 60%	E

I will not be curving individual assignments, including the report. However, I may curve the final grades at my discretion. The straight scale above is the most stringent metric I will use (i.e. if I curve, it will only result in higher letter grades). Do not assume I will curve grades.

University policy regarding grades and grading systems is available at <http://catalog.arizona.edu/policy/grades-and-grading-system>

**Dispute of Grade Policy:** If you have questions how a problem was graded on your report, please write a note describing the issue, attach the note to your report, and give the report and note to me. Resubmissions must be done within one week after a report is returned.

**Requests for incomplete (I) or withdrawal (W)** must be made in accordance with University policies, which are available at <http://catalog.arizona.edu/policy/grades-and-grading-system#incomplete> and <http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal> respectively.

## Course Communications

Online communication will occur via Piazza, which can be found here: <https://piazza.com/arizona/fall2019/chee442/home> Make sure you have joined the class site, and check Piazza regularly for information and to post any questions.

## Required Materials

Turning Technologies clickers (or ResponseWare) will be used in this course on a regular basis. Be sure to bring your clicker to each class. The clickers will be used to track attendance and participation. Please see the D2L Announcements for instruction on how to register your clicker.

You will need access to a laptop for in-class working days (can be borrowed from the U of A library: <http://new.library.arizona.edu/tech/borrow/pc-laptop>)

## Submission of Work

All work for this course will be submitted or completed online via the University of Arizona's (D2L) system. D2L is the only method by which assignments will be accepted. Your submissions will be checked with D2L's plagiarism tool. You are responsible for keeping up to date on the requirements of the course. All schedules, documents, lecture slides, assignments, and other materials relating to the course will be maintained on the D2L website. Check D2L for information related to assignments.

## **Absence and Class Participation Policy**

Participating in the course and attending lectures are vital to the learning process. As such, attendance is required at all lectures and assigned lab periods. Class attendance will be verified with a clicker question that appears at some point randomly in the day's activities and will be auto-recorded through that device. If you do not have a clicker, please get one as quickly as possible from the UA Bookstore or purchase a license for TurningPoint ResponseWare. Clickers will also be used to gauge understanding of reading material, support class discussions, facilitate understanding of new concepts and review previously taught material. If you forget your clicker, please see me after class, then email me regarding your attendance. If you miss class, you can watch the recording in Panopto in UA Tools on D2L and then email me to earn 75% of the attendance points.

To request a disability-related accommodation to this attendance policy, please contact the Disability Resource Center at (520) 621-3268 or [drc-info@email.arizona.edu](mailto:drc-info@email.arizona.edu). If you are experiencing unexpected barriers to your success in your courses, the Dean of Students Office is a central support resource for all students and may be helpful. The Dean of Students Office is located in the Robert L. Nugent Building, room 100, or call 520-621-7057.

Please examine the course syllabus for potential conflicts at the start of the semester and promptly notify me via email of any anticipated accommodation needs, providing as much notice as possible.

The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at: <http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable, <http://policy.arizona.edu/human-resources/religious-accommodation-policy>.

Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: <https://deanofstudents.arizona.edu/absences>

## **Threatening Behavior Policy**

The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See <http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students>.

## **Accessibility and Accommodations**

Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit <http://drc.arizona.edu>.

If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.

**Please be aware that the accessible table and chairs in this room should remain**

**available for students who find that standard classroom seating is not usable.**

### **Code of Academic Integrity**

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See:

<http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity>.

The University Libraries have some excellent tips for avoiding plagiarism, available at <http://new.library.arizona.edu/research/citing/plagiarism>.

### **UA Nondiscrimination and Anti-harassment Policy**

Harassment, discrimination, hateful or disrespectful language, and bullying will **not** be tolerated. If you have been subjected to any of this, please contact me.

The University is committed to creating and maintaining an environment free of discrimination; see <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>

### **Subject to Change Statement**

Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.