

Mass Transfer Syllabus



Prof. Ara Philipossian

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Instructor Information

- **Instructor.**

- ✓ Name: Ara Philipossian
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- **Office hours.**

- ✓ Wednesdays 10 to 12 noon.
- ✓ Modern Languages Building Room 311
- ✓ No office hours during the first week of school.
- ✓ Other times by appointment only.

- **Syllabus & schedule are subject to change (see D2L periodically)**

- **The DH has decided to not assign a TA to this course citing that it is not needed! Odd indeed. Please refer all complaints about this to our Muscat.**

Academic Integrity

- **Cheating or aiding in cheating on exams and homework will not be tolerated.**
- **Plagiarism will not be tolerated.**
- **Please refer to the university policy on academic integrity. I am going to assume that you know all about it!**
- **If I catch you cheating, aiding in cheating or plagiarizing, I will seek the maximum disciplinary action from the Dean's Office.**

Accessibility and Accommodations

- **It is the University's goal 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 Disability Resources (520.621.3268) to establish reasonable accommodations.**

Course Details

- **Textbook is going to be “Unit Operations of Chemical Engineering,” 7th Edition by McCabe, Smith and Harriott, McGraw-Hill Publishers (2007).**
- **International version as well as softcover version are OK!**
- **Subjects to be covered:**
 - ✓ Principles of Diffusion and Mass Transfer between Phases (Chapter 17)
 - ✓ Gas Absorption (Chapter 18)
 - ✓ Humidification Operations (Chapter 19)
 - ✓ Equilibrium Stage Operations (Chapter 20)
 - ✓ Distillation (Chapter 21)

Course Details

- Homework (in the form of 6 or so in-class quizzes and take-home problems) = **16 percent**
- All other HW assignments will be discussed and solved in class in workshop format.
- Exam No. 1 (Ch. 17) = **16 percent (date TBD)**
- Exam No. 2 (Ch. 18) = **16 percent (date TBD)**
- Exam No. 3 (Ch. 19) = **16 percent (date TBD)**
- Exam No. 4 (Ch. 20) = **16 percent (date TBD)**
- Exam No. 5 (Ch. 21) = **20 percent (date TBD)**
- Exams are open book and closed notes.
- **ONLY** for those you who attend my lectures on a regular basis (i.e. no more than 2 absences during the whole semester), I will drop the lowest grade (HW and Exam Nos. 1 to 4, only) before I issue your final course grade! I will be taking attendance on a regular basis!

Homework and Exams

- **Exams will be mostly based on homework problems.**
- **Exams (and their solutions) from 2015 will be posted on D2L so that you'll have an idea of how the tests are going to be. I will not review the solutions with you in class or in office hours.**
- **HW will not be collected and graded, but you MUST be able to solve the problems on your own and know everything there is to know about what's being asked and how to solve things!**
- **About 6 quizzes and 2 massive HW assignments will be collected and graded.**
- **This is a test of 'self-discipline' and the sooner you learn this in your life the greater your chances of success later on!**

Groundrules

- **There will be no make-up exams**
- **Mobile devices need to be turned off at ALL times**
- **Lectures start promptly at 8:00 AM**
 - ✓ You do not have to attend the lectures, but if you decide to do so, please be on time
 - ✓ Students arriving after 8:05 AM will not be admitted into the classroom that day
 - ✓ Being 5 minutes late means appx. 4 hours of other people's time wasted
 - ✓ If you miss a lecture, please do not ask for a tutorial on the subjects covered during the lecture
- **Complete your reading assignment prior to each lecture**
- **Attendance will have its benefits!**

Course Format

- **D2L course (www.d2l.arizona.edu) – CHEE303.**
- **On-Line presentation of lecture materials.**
 - ✓ Lecture slides (all)
 - ✓ Lecture video and audio (most)
 - ✓ Homework solutions video and audio (most)
- **Homework.**
 - ✓ Reading and homework assignments located in “Content” in D2L. Please review the related schedule presentation on your own
 - ✓ There is no need to turn in any homework
 - ✓ It is important that you do the homework individually
 - ✓ Homework solutions or “solution paths” will be posted periodically
 - ✓ Exams are mostly based on homework, so please take this seriously even though you are not requested to hand in your homework