Mass Transfer Syllabus

Prof. Ara Philipossian

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Fall 2015 – Slides Prepared by Fransisca Sudargho
Instructor Information

• Instructor.

  ✓ Name: Ara Philipossian
  ✓ Phone: 520.621.6101
  ✓ E-Mail: ara@email.arizona.edu

• Office hours.

  ✓ Wednesdays from 10 to noon in my office (ECE Room 223).
  ✓ No office hours during the first week of school!
  ✓ Other times by appointment only.

• Syllabus and schedule are subject to change.

  ✓ See D2L periodically
Instructor Information

• **Teaching assistant.**
  
  ✓ Name: TBD  
  ✓ Phone: TBD  
  ✓ E-Mail: TBD

• **Office hours and location.**
  
  ✓ Hours: Mondays and Thursdays from 3 to 5 PM  
  ✓ Location: TBD  
  ✓ Please take advantage of this opportunity and go to the TA frequently  
  ✓ The TA’s job (and mine) is to help you get a good grade (A or B) in this course
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


- Basically the same one as your ChEE203 book had I taught you ChEE203 last semester!

- 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 = ZERO percent

• Homework will be discussed and solved (or sometimes partially solved) in class in workshop format.

• Exam No. 1 (Ch. 17) = 20 percent (date TBD)
• Exam No. 2 (Ch. 18) = 20 percent (date TBD)
• Exam No. 3 (Ch. 19) = 20 percent (date TBD)
• Exam No. 4 (Ch. 20) = 20 percent (date TBD)
• Exam No. 5 (Ch. 21) = 20 percent (date TBD)

• 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 (Exam Nos. 1 to 4, only) before I issue your final course grade!

• I will be taking attendance on a regular basis!

• There may be a pop-up quiz or two!
There will be NO FINAL EXAM, so start working hard from DAY 1!

Grade statistics based on approximately 504 students who have taken this course from me in the past 10 years:

- A – 42 %
- B – 21 %
- C – 14 %
- D, E, W or DROP – 22 %

Grade statistics for me based on the past 5 times that I have taught the course:

- Teaching Effectiveness – 3.7 to 4.3 (out of a maximum of 5)
- Overall Course – 3.3 to 3.9 (out of a maximum of 5)
- Overall Amount Learned – 3.7 to 4.3 (out of a maximum of 5)
- Difficulty – 3.9 to 4.3 (out of a maximum of 5)
Homework

• Exams will be mostly based on homework problems, but they will not be easy!

• 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!

• Negative comments from previous ChEE303 students:
  ✓ “Use of PPT slides during lecture” and “Not collecting homework”
  ✓ Not enough partial credit

• 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 (some)
  ✓ Homework solutions video and audio (some)

• 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