



CHEE 587 Topics in Transport Phenomena

Location and Times

Description of Course

This course will deal with research and practical applications of transport phenomena, with emphasis in the treatment of problems in chemical and environmental engineering.

Course Prerequisites or Co-requisites

Prerequisite: CHEE 305, Transport Phenomena

Instructor and Contact Information

Eduardo Sáez, Harshbarger 234, 6215369, esaez@email.arizona.edu

Office Hours

Teaching assistants

There will be a D2L site for the course

Course Format and Teaching Methods

Lecture only.

Course Objectives and Expected Learning Outcomes

1. Students will formulate and solve problems in transport phenomena in chemical engineering.
2. Students will be able to use transport phenomena fundamentals to solve multidisciplinary problems.
3. Students will explore applications of transport phenomena to research and industrial problems.

Absence and Class Participation Policy

The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at <http://catalog.arizona.edu/2015-16/policies/classatten.htm>

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 preapproved by the UA Dean of Students (or dean's designee) will be honored. See <http://uhap.web.arizona.edu/policy/appointed-personnel/7.04.02>

Participating in the course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures and discussion section meetings. Students who miss class due to illness or emergency are required to bring documentation from their health-care provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

Required Texts or Readings

Course notes, available on D2L.

Assignments and Examinations: Schedule/Due Dates

Bi-weekly homework assignments.

Two in-class examinations.

One term project.

Final Examination or Project

The date and time of the final exam or project, along with links to the Final Exam Regulations, <http://www.registrar.arizona.edu/schedule101/exams/examrules.htm>, and Final Exam Schedule, <http://www.registrar.arizona.edu/schedules/finals.htm>

Grading Scale and Policies

Homework average will count as 25% of the final grade.

Each of the two exams will count as 30% of the final grade.

A term project will count as 25% of the final grade.

This is a 400/500 course. Graduate students will be required to develop a term project oriented towards applications of transport phenomena in specific research situations. Topics for the projects will be assigned individually.

Requests for incomplete (I) or withdrawal (W) must be made in accordance with University policies, which are available at <http://catalog.arizona.edu/2015-16/policies/grade.htm#I> and <http://catalog.arizona.edu/2015-16/policies/grade.htm#W>, respectively.

Scheduled Topics/Activities

List topics in logical units in a weekly/daily schedule, including assignment due dates and exam dates.

Classroom Behavior Policy

To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

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>.

UA Nondiscrimination and Anti-harassment Policy

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>

Additional Resources for Students

UA Academic policies and procedures are available at <http://catalog.arizona.edu/2015-16/policies/aaindex.html>

Student Assistance and Advocacy information is available at <http://deanofstudents.arizona.edu/student-assistance/students/student-assistance>

Confidentiality of Student Records

<http://www.registrar.arizona.edu/ferpa/default.htm>

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.