CHEE 487 Topics in Transport Phenomena

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
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: a midterm and a final.
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 30% of the final grade.
Each of the two exams will count as 35% of the final grade.
Grade equivalence: A: > 90%, B: 80-90%, C: 70-80%, D: 60-70%, E: < 60%.

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
2. Thermal Radiation.

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.