

Chem 578
Kinetics and Mechanisms
Spring 2022

Instructor: Aaron Sadow, 2101B Hach Hall, email: sadow@iastate.edu; phone: 4-8069
Class Hours: Monday and Wednesday 11:00 – 11:50 am
Office Hours: Monday and Wednesday 10:00 a.m. or by appointment
Required Text: Chemical Kinetics and Reaction Mechanisms, by James Espenson

Topics	Chapter
Reactions and Rates	1
Simple Kinetic Systems	2
Complex Kinetic Systems	3-4
Intermediates and Deduction of Mechanism	5-6
Transition State Theory	7
Chain Reactions	8
Reactions in Solution	9
Linear free energy relationships	10
Other Mechanistic Tools	11

Cell phones are banned from all class activities.
Write emails for the course in appropriate style and language.
Attend class and participate.

Course Grading: Two exams: 2×100 points
Presentation 100 points

Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. All students requesting accommodations are required to meet with staff in Student Disability Resources (SDR) to establish eligibility. A Student Academic Accommodation Request (SAAR) form will be provided to eligible students. The provision of reasonable accommodations in this course will be arranged after timely delivery of the SAAR form to the instructor. Students are encouraged to deliver completed SAAR forms as early in the semester as possible. SDR, a unit in the Dean of Students Office, is located in room 1076, Student Services Building or online at www.dso.iastate.edu/dr/. Contact SDR by e-mail at disabilityresources@iastate.edu or by phone at 515-294-7220 for additional information.