

Instructor: Ted Burkey Office: SM205 phone: 678-2634 email: tburkey@memphis.edu

Smith 220, MW 5:30-6:55 PM

A mostly paperless course: Homework and links to Course Notes will be submitted online or by email.

<http://www.memphis.edu/chem/faculty-burkey/tjb-4311.php>

Texts: "A Guidebook to Mechanism in Organic Chemistry", 6th Ed. P. Sykes

Review Organic Text on Stereochemistry: conformer (gauche, anti, eclipse) cyclohexane conformations (equatorial/axial substituents), chiral compounds, enantiomers, and diastereomers.

Problem Sessions: to be announced. **Grade:** Assigned problems, two interval exams and Final, 25% each.

Week of	Topics and reading assignments
August 27	Structure Reactivity Mechanisms CH1
September 3	Labor Day 3th Energetics and Kinetics of Reactions CH2
September 10	Energetics and Kinetics of Reactions CH2
September 17	Acid/Base Chemistry CH3
September 24	Nucleophilic Substitution CH4
October 1	Carbon cations, electron-deficient N and O CH5
October 8	Exam Wednesday, Aromatic substitution CH6
October 15	Fall Break 15th-16th: Elimination reactions CH9
October 22	Addition to C=C CH7
October 29	Addition to CO CH8
November 5	Carbanions CH10
November 12	Exam Wednesday Radical Reaction CH11
November 19	Symmetry controlled reactions CH12 Thanksgiving break
November 26	Linear Free Energy Relations CH13
December 3	December 5 last day of classes
December 12	Final Exam Wednesday, 5:30 - 7:30 pm

Homework: All homework must be submitted in a Word file. No hand written documents accepted.

Structure drawing software can be obtained at <http://sitesubscription.cambridgesoft.com/>¹

Register with a memphis.edu email address and you are eligible to download the latest version.

Academic Integrity and Student Conduct:

Expectations for academic integrity and student conduct are described in detail in the Code of Student Rights and Responsibilities (<http://www.memphis.edu/studentconduct/pdfs/csrr.pdf>). Please take a look, in particular, at the sections about "Academic Integrity," and "Disruptive Behavior". I will expect students to be aware of these guidelines and to conduct themselves accordingly.

Any student who anticipates physical or academic barriers based on the impact of a disability is encouraged to speak with me privately. Students with disabilities should also contact Disability Resources for Students (DRS, <http://www.memphis.edu/drs/>) at 110 Wilder Tower, 901-678-2880. DRS coordinates access and accommodations for students with disabilities. Reasonable and appropriate accommodations will be provided to students with disabilities who present a memo from Student Disability Services (SDS).