Physical Organic Chemistry
Course meetings: MWF 9:30–10:20 am Bilger 341C

Instructor: W. Chain chain@hawaii.edu
Bilger 205B 808-956-5795

Office hours by appointment.

Course Objective: The objective of Chemistry 643 is to introduce students to a series of advanced topics in organic chemistry, including (but not limited to) conformational analysis, stereoelectronic effects, reaction mechanisms, and reactive intermediates.

Course Eligibility: Undergraduates must have taken Chemistry 272 and Chemistry 273. Graduate students must have passed the equivalent to Chemistry 272/273 at their undergraduate institution and the organic chemistry placement examination. There will be no exceptions to these rules.

Exams: There will be three midterm exams, one administered every four weeks. These will focus on recent topics. There will also be a comprehensive final exam.
There will be no make-up exams. Instead, an exam score will be manufactured from your final exam score. This score will replace your lowest normalized midterm exam score, or serve to replace a zero should you miss an exam for a valid medical excuse. Therefore, your final exam can weigh between 38% and 50% of your final grade, whichever is to your advantage.

Problem Sets: Problem sets will be available in class on Friday, and will be due in class on the following Friday. No late problem sets will be accepted. No problem sets will be due during an exam week. Problem sets will be graded on a scale from 0-5.

Grading Scheme: Midterm exams (three): 300 points
Final exam: 300 points
Problem sets (10): 200 points

Code of Conduct: Academic honesty policies can be found at the following website: http://www.hawaii.edu/student/conduct/

Disabilities: The University of Hawaii is an equal opportunity/affirmative action institution, dedicated to teaching all students and reaching all learners. It is our commitment to make our lectures and classrooms
accessible to all students. If you have, or think you might have, a
disability and have not voluntarily disclosed its nature and the
support you need, you are invited to contact the UH KOKUA
Program (http://www.hawaii.edu/kokua/ or (808) 956-7511), or talk
with the instructor in order to get any accommodation you might
need to take the course. This information will be kept confidential.
Please do this as early in the course as possible.

Textbooks:

Anslyn, E. V. and Dougherty, D.A. Modern Physical Organic
Chemistry

Optional, but HIGHLY recommended:

Fleming, I. Frontier Orbitals and Organic Chemical Reactions.

Carey, F. A. and Sundberg, R. J. Advanced Organic Chemistry,
Part A (Fourth or Fifth Edition)