Syllabus for CHEM 641 – Organic Structure Determination

Instructor:  Professor P. Williams
Office:    Bilger Hall, 239
Office hours:   By appointment
Email:    philipwi@hawaii.edu
Phone:   956-5720

Meeting time:  This class is entirely on-line. See the announcement section of the
laulima page (https://laulima.hawaii.edu/portal) for the Zoom link and
Password.

Required Text:  Linington, Williams, MacMilan. Problems in Organic Structure

At least one copy of Linington will be available for students
to use in Bilger Addition 307. Electronic data for all problems
are also available from the instructor if you prefer not to buy
the book.

Pretsch, E.; Bühlmann, P.; Badertscher M. Structure
Determination of Organic Compounds: Tables of Spectral
Data. Berlin: Springer-Verlag 2009:
ISBN: 978-3-540-93809-5

Supplemental material:  Crews, P.; Rodríguez, J.; Jaspars, M. Organic Structure Analysis.
(A useful general reference on structure determination)

Claridge, T.D. High-Resolution NMR Techniques in Organic
Chemistry.  (An excellent general reference on NMR)

NMR processing software:  In many cases, students might prefer to use NMR processing
software to analyze the data sets from the Williams’ book.
MestreNova is an excellent package to use, as many research labs
have MestreNova licenses already. A trial version is available for 45
days from https://mestrelab.com/evaluate/. They have been willing
to extend this trial for longer due to assist groups dealing with
COVID, but I would advise not getting a trial license until we start
working with 2D NMR. The department does have some licenses
available through Wes Yoshida. Our licensed version does not work
with the new MacOS

Semester grades:  40% In-class quizzes (9/3, 9/17, 10/1, 10/15, 10/29, 11/12).
20% Mid-term (Scheduled Outside of Class Hours or take home)
30% Final exam (Scheduled Outside of Class Hours or take home)
10% Instructor Evaluation

A significant amount of homework will be assigned throughout the semester, which can be submitted to the instructor for comment. While no grades will be assigned for the work, students are unlikely to pass either of the two exams without having completed a significant portion of the homework and mastered the required skills. Final class grades may be curved.

**Code of Conduct:** Academic honesty policies can be found at the following website: [http://www.studentaffairs.manoa.hawaii.edu/policies/](http://www.studentaffairs.manoa.hawaii.edu/policies/). Students are expected to familiarize themselves with these rules. *Any student caught violating the policies on plagiarism or cheating will receive a grade of an “F” in the course.*

**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/](http://www.hawaii.edu/kokua/) or (808) 956-7511), to arrange any accommodations you might need to take the course. This information will be kept confidential. Please do this as early in the course as possible, as only students who make arrangements through Kokua are eligible for accommodations.

**Policies:**

- There are no makeup exams. Any missed exam will be considered a zero-point exam.
- All students are expected to conduct themselves with honesty and consideration of fellow students. Homework problems and take-home exams are not to be done in groups.
- Policies and procedures may be modified in order to respond to unexpected situations. Students will be notified ASAP if this occurs.