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| |  | | --- | | **[family_tree.jpg](http://www.bing.com/images/search?q=Trees+images%23focal=cb445e6326840d15328984d731b34f22&furl=http://www.cptcook.com/img/family_tree.jpg)Welcome!** This course continues the study of functional groups such as carboxylic acids and their derivatives, carbonyls, amines, and phenols. The emphasis is again on reaction mechanisms, structure determination using nuclear magnetic resonance and infrared spectroscopy, synthesis, and applications. A major part of this course is devoted to the study of biochemistry.  **Who should take this course?** Those students who are preparing for scientific and medical fields usually need a full year of organic chemistry. It is both challenging and demanding; you should anticipate attending every class and spending **\*8-10 hours a week** for study. | | **How to succeed in this class**  **Show up**: School policy states that students missing two weeks’ worth of class will be dropped. If you are absent, you must catch up on what you have missed or make arrangements beforehand; class information will not be repeated. Absence is not a valid excuse for missing assignments.  **Be engaged:** Focus on the activities in class and avoid distractions like mobile devices. Ask questions, read, practice, and be proactive! All cell phones should be put away unless prior approval is received.  **Write (don’t type!);** Research shows that students who take the time to re-write notes and work calculations and problems by hand perform statistically much higher than those students who do not. Communicate: I’m happy to talk with you about your progress in the class. Please email me or let me know if you have any questions or concerns. | | **Wiley Homework:**  We will continue to use our Wiley online homework system. Most of you have already purchased your Wiley package & DO NOT need to do again. Our 12B class will be available soon. Any new students to our course will need to **register through CANVAS** only. **It is YOUR RESPONSIBILITY to sign up and begin immediately. You are responsible for checking due dates and staying on top of your assignments. There is no late HW accepted in order to allow those students completing on time access to full answers/solutions.**  **Quizzes:**  A short quiz will be given almost every two-ish weeks . These will begin at the very start of class and will last only 10-15minutes. If you’re late, you will not receive extra time. Please be prepared. One quiz will be dropped at the end of the semester.  **Exams:**  Exams will be approximately 3 chapters and will be a combination of written calculations, short answers, and/or multiple choice. **NO MAKEUP EXAMS will be given, no matter the reason – that’s why we offer an Optional Cumulative Final to replace any exam score. If you are happy with your grade before the final, you DO NOT NEED TO TAKE THE FINAL.**  **\*You have 48hrs from pass-back to check your quiz or exam for errors & to contact me. No changes will be made after this time. If you are absent, you will not receive extra time – it is your responsibility to contact me & I can scan to you.** | | **Important dates**  **Exam 1 Wednesday 2/5**  **Exam 2 Wednesday 3/4**  **Exam 3 Wednesday 4/1**  **Exam 4 Wednesday 5/6**  **1/20 NO SCHOOL (MON)**  **1/24 Last day to drop without a W**  **2/17 NO SCHOOL (MON)**  **4/6-4/12 NO SCHOOL (spring break)**  **4/17 Last day to drop with a W**  **Optional Final Exam = Monday 5/11 10:15am – 12:15pm** | | **ON CAMPUS RESOURCES**  **EAC (Administration Building):** The Educational Assistance Center provides testing and accommodations for students. If you have already established accommodations with the EAC, let me know as soon as possible. If you think you might benefit from the EAC’s services, I’d be happy to go with you and introduce you. **Students utilizing the EAC must schedule exams/quizzes on the scheduled class day and time only!**  **Tutoring Center (LRC 1st floor)**: All VC students are eligible for free tutoring at the Tutoring Center. You can make an appointment or drop-in for help.  **STEM HARBOR**: Science students can get help from a variety of faculty in Sci 223. Schedule will be posted on CANVAS.  **Me! Please take the time early-on to come to office hours and/or utilize every moment of lab time to ask questions and get help!** | | |  | | --- | | **Contact Info**Instructor: Michelle DavidsonEmail: [mdavidson@vcccd.edu](mailto:mdavidson@vcccd.edu)\*Emails returned M-Th within 24hrs.\*Weekend emails returned MondayWebsite: [www.michelledavidsonchemistry.weebly.com](http://www.michelledavidsonchemistry.weebly.com)Office: Sci 334Drop-in HoursMon/Tues/Wed/Thurs 8 – 8:30am (Sci 216)Tues 12:50 – 1:50pm (Sci 334)Wed 12:50 – 1:50pm (Sci 334)Thurs 12:50 – 1:50pm (Sci 334) | | **materials**Scientific Calculator(No cellphones or graphing calculators allowed) | | **Required****WileyPlus online HW****electronic or physical copy of organic chemistry 3rd Ed. by David Klein** | | **GRADING**  Please Check canvas often  Homework 10%  Quizzes 20%  Exams 1-4 70%  A 90.000% or higher  B 80.000% - 89.999%  C 70.000% - 79.999%  D 60.000% - 69.999%  F 59.999% or lower  \*Please do not ask for grades to be rounded. One quiz is dropped, there are 10% of exam/quiz bonus points throughout semester, and the final exam is optional to replace any other test. Be proactive & earn your grade. | | **Student learning outcomes** CSLO-1 Categorize, arrange, and assemble structures of aromatics, ketones, aldehydes, carboxylic acids, esters, amines, and biochemical amino acids using IUPAC and common systems of nomenclature, in addition to continued ChemV12A knowledge.  CSLO-2 Examine, evaluate, and formulate mechanisms for the reactions of aromatics, ketones, aldehydes, carboxylic acids, esters, and amines given reactants and reagents; in addition to continued ChemV12A knowledge.  CSLO-3 Ability to propose the multi-step synthesis for common functional groups using all learned reagents from ChemV12 and ChemV12B.  CSLO-4 Evaluate spectra (infrared, msas spec, H1 NMR, C13 NMR) to formulate structures for alkanes, alkenes, alkynes, alkyl halides, cyclics, alcohols, ethers, ketones, aldehydes, carboxylic acids, esters, amines, and aromatics. (\*Course Objectives online) | |

**Be Proactive, organized, and take the time to enjoy school and life. Cramming and late nights cause stress, and stress affects your performance. Let’s have a wonderful semester ☺**