

**General Organic Chemistry Lab 12BL**

**MW 11am – 1:50pm; TTH 8am– 10:50am**

**Instructor: Michelle Hagerman (Davidson)**

**Email:** **mhagerman@vcccd.edu**

**Office: Sci – 334**

**Office Hours: M/W 10:00am – 11:00am (Sci 216 lab)**

 **T/TH 7:30 – 8am (Sci 216 lab)**

 **T/TH 12:20 – 1:20pm**

**Description:** This course covers the utilization of the techniques of experimental organic chemistry including physical and chemical methods of purification, separation, and structure determination, with an emphasis on syntheses and mechanisms. Infrared spectroscopy and nuclear magnetic resonance are used extensively in this course. Field trips may be required. Prerequisites: grades of C or better in 1A, 1AL, 1B, 1BL, 12A, 12AL (12B: C or concurrent enrollment.

**Required Materials: You must have your own lab experiment printed from** [**www.venturacollegeorganicchemistry.weebly.com**](http://www.venturacollegeorganicchemistry.weebly.com)

**for each day! (You may use ipads/computers instead of printing; not a cell phone.**

 **GOGGLES everyday! (must be worn over reading glasses)**

 **Closed-toe Shoes**

 **Gloves**

 **Liquid Soap**

 **Tupperware for washing (min. quart size)**

 **Recommended: Lab Coat**

**SLOs/CourseObj./CoreComp:** [**www.michelledavidsonchemistry.weebly.com**](http://www.michelledavidsonchemistry.weebly.com)

**SLOs Chem V12BL**

1. Synthesize simple organic molecules using modern reaction techniques with an emphasis on micro-techniques.
2. Analyze the success of each synthesis on the basis of gravimetric, spectroscopic, and chromatographic evidence and physical properties.
3. Analyze unknown substances using qualitative chemical tests and to confirm the analysis using the interpretation of infrared spectroscopy, gas chromatography, and nuclear magnetic resonance spectroscopy.

**Attendance:** Attendance is mandatory and will be taken every class period. 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.

**\*You may not miss the first day of a lab when the lab lecture and safety information is presented – it is school policy that you are in attendance or you will not be permitted for perform the experiment. Under some circumstances you may be allowed to attend the other organic lab if they have not yet begun the experiment – prior approval is needed as space is limited.**

**Academic Integrity:**  Be careful! Cheating comes in all shapes & forms – if you are receiving an advantage that no one else is receiving, this is “cheating. Ventura College and our department will not tolerate any form.

**\*\*\*Original work must be submitted**. Lab encourages students to work together in prelabs and postlabs – however, YOU are responsible for submitting original work that is not similar or copied from a group member. Remember, you need to learn the material; copying someone else’s work is dishonest and promotes no learning. Put the effort in to get it done, get help PRIOR to due dates, and if you happen to forget once or twice about an assignment – own up to it and just say you didn’t do it and that you will do better in the future.

**Grading Policy: Prelabs 15% 90.0% & above = A**

 **Postlabs 25% 80 – 89.9% = B**

 **Quizzes 45% 70 – 79.9% = C**

 **Final 15% 60.0 – 69.9% = D**

 **59.9% & below = F**

**Prelabs:** Your prelab is due immediately at the start of the lab period. No late prelabs will be accepted. It is your responsibility to be prepared for the lab that day. You must receive help if you need it prior to the lab class. One will be dropped.

**Postlabs:** Your lab postlabs (data, results, post-questions, etc) are due at the start of the period on the day you begin a new experiment. No late postlabs will be accepted. One will be dropped.

**Quizzes:** Quizzes will be given every two weeks at the start of the lab period; you have approximately 10-15min depending on the quiz; if you are late, no extra time will be given. Quizzes will cover the material presented for the previous TWO experiments. One will be dropped. There are no make-ups. SAVE YOUR QUIZZES – FIX YOUR MISTAKES ASAP SO YOU ARE PREPARED FOR FINAL.

**Final Exam:** The final exam is cumulative and mandatory. It will cover all material from quizzes. School policy dictates that it must be taken on the last day of lab.

**A Final Note: Lab can be a very intimidating setting for many students. Common courtesy, respect, and a high regard of safety is expected of all students towards one another, teachers, lab equipment, and chemicals. Cell phones should be put on vibrate and put away unless being used to look up lab research – lab is not a time to text. Let’s have fun, but be safe at the same time!**