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Fall 9-1-2021

### CHMY 222.00: Organic Chemistry I Lab

Orion B. Berryman

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## Syllabus

### Instructor

- Orion B. Berryman, Chem 207, orion.berryman@umontana.edu
  - Office hours: by appointment

### Teaching assistants

- Evelyn Schwartz, evelyn.schwartz@umconnect.umt.edu
  - Sections 4 and 5/6
  - Office hours Wednesday 10:00–11:00 am (CHEM 107 or via zoom)  
<https://umontana.zoom.us/j/99484755495?pwd=UzZUUTNla3VCemFIMTVZeEk4RkR0QT09>  
Passcode: 457316
- Allison Kelly, allison1.kelly@umconnect.umt.edu
  - Sections 1 and 3
  - Office hours Thursday 12:00-1:00 pm (CHEM 107)
- Madeleine Boller, madeleine.boller@umconnect.umt.edu
  - Section 2
  - Office hours Mondays 8:30–9:30 am (CHEM 107)

### Purpose

- Perform standard organic chemical reactions
- Use basic chemical analysis techniques
- Develop a knowledge and understanding of the world at the molecular level

### Requisites

- One semester of a 100-level chemistry lab course (or equivalent)
- CHMY 221 is a co-requisite

### Requirements

- A bound notebook of any type
- Splash-protection safety goggles

### Optional reading

- Pavia, D.L., Lampman, G.M., Kriz, G.S., and Engel, R.G., 4th ed., (2007), Thomson Brooks/Cole, Belmont, California; ISBN-10: 1133106528

### Format

- Each section has two hours of class twice a week
- A mini-lecture on procedures, methods, and safety will occur in lab before the start of each class
- Class time will be spent in the laboratories located in Clapp building (CHCB) 213 or 217

### Evaluation

- Your grade will be based on seven lab reports and pre- and post-lab Moodle quizzes
- Point distributions and percentages of total points for grades are:

Point breakdown	Points	% of total points	Grade
7 Lab reports @ 70 points each	490	90 %–100 %	A-, A
7 Moodle pre-lab quizzes @ 15 points each	105	80 %–89 %	B-, B, B+
7 Moodle post-lab quizzes @ 15 points each	105	70 %–79 %	C-, C, C+
In-lab participation for 7 labs @ 15 points each lab	105	60 %–69 %	D-, D, D+
Pre-lab notes for 7 labs @ 10 points each	70	0 %–59 %	F
In-lab notes 7 labs @ 10 points each	70		
<b>Total</b>	<b>945</b>		

### Disabilities

- Any student with a disability that may hinder a full demonstration of their abilities in this course should contact Prof. Berryman during the first week of classes to discuss accommodations necessary to ensure full participation and facilitate your educational opportunities

### Legal notice

- The course syllabus and other documents pertaining to grading and scheduling are not a contract; they are tentative outlines for the course
- Changes may be made during the semester at the discretion of Prof. Berryman

### Academic misconduct

- All students must practice academic honesty
- Academic misconduct is subject to an academic penalty by the course instructor and a disciplinary sanction by the University of Montana
- All students must be familiar with the Student Conduct Code

### Safety

- Mask use is required within the lab
- Each student is provided with a cleaning kit. The expectation is that students will clean their personal work space when they arrive for class, and before they leave the lab
- The labs may have one-way entrances / exits to minimize crowding
- Students should not congregating outside the labs before and after class
- Specific space arrangements will be used to support contact tracing
- Class attendance will be recorded to support contact tracing efforts
- Drinking liquids and eating food is not allowed within the lab
- Stay home if you feel sick and/or if exhibiting COVID-19 symptoms and contact Curry Health Center at (406) 243-4330
- UM Coronavirus Website: <https://www.umt.edu/coronavirus>
- UM COVID-19 Fall 2020 website: <https://www.umt.edu/coronavirus/fall2020.php>
- Please remain vigilant outside the classroom in mitigating the spread of COVID-19

#### Sherlock Holmes—his limits

- Knowledge of Literature.—Nil.
- " " Philosophy.—Nil.
- " " Astronomy.—Nil.
- " " Politics.—Feeble.
- " " Botany.—Variable. Well up in belladonna, opium, and poisons generally. Knows nothing of practical gardening.
- Knowledge of Geology.—Practical, but limited. Tells at a glance different soils from each other. After walks has [22] shown me splashes upon his trousers, and told me by their colour and consistence in what part of London he had received them.
- Knowledge of Chemistry.—Profound.
- " " Anatomy.—Accurate, but unsystematic.
- " " Sensational Literature.—Immense. He appears to know every detail of every horror perpetrated in the century.
- Plays the violin well.
- Is an expert singlestick player, boxer, and swordsman.
- Has a good practical knowledge of British law.

—Dr. Watson describing his friend's abilities, from *A Study in Scarlet*, Sir Arthur Conan Doyle