

CHE 201 Organic Chemistry Microscale Lab Program–fall 2015

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Office hours: Monday and Thursday 1-2 PM and *By Appointment*

REQUIRED TEXTS AND MATERIAL

- 1) **Lab Manual:** *Multiscale Operational Organic Chemistry*: A problem solving approach to the laboratory course, by John W. Lehman, 4th custom edition for University at Buffalo, (2012).
- 2) **Chemistry Notebook** - Any bound chemistry Note book (or a composition book) can be used. *Spiral bound notebooks or loose sheets in a 3 ring binder are not allowed.*
- 3) **Lab Materials:** lab kit (same as CHE 101-2/107-8), monogoggle safety glasses, and a padlock for lab drawer are **required** (available at the bookstore). Proper protective clothing are required, long sleeve shirt, pants, and intact footwear covering the entire upper portion of the foot. **You will not be able to work in the laboratory without proper clothing.** Protective clothing is also detailed in the Laboratory Notes document available on UBLeans.

Learning Outcomes and Objectives: *Upon completion of CHE 201 laboratory course, a typical student should be able to:*

1. Carry out experiment effectively and safely in the organic laboratory.
2. Perform micro scale reactions and synthesize organic compounds
3. Determine boiling point and melting point of product.
4. Perform purification of compounds by distillation, chromatography and recrystallization.
5. Identify products using boiling point, melting point and chemical analysis.
6. Take good experimental notes and data.
7. Write good laboratory report according to standard format of organic chemistry.
8. Develop good Team working and problem solving skills
9. Relate principles of chemical reactions and mechanisms to organic functional groups
10. Propose reaction mechanisms for common organic chemistry reactions

IN THE LABORATORY Before starting any experiment A **Laboratory Safety Quiz** needs to be completed and students have to **check-in and assume responsibility** for all the assigned equipment.

A discussion of the theory, practice and methods will precede each experiment. These discussions will be held during the first hour of the lab period (recitation section). Please study the theory and familiarize yourself with the techniques required for all the experiments.

Attendance of the pre-lab lecture and performance of each laboratory experiment is mandatory. A missed laboratory experiment cannot be made up at another time and any missed laboratory session will result in a grade of zero (0) for that experiment. Students who unavoidably miss a lab experiment must fill out and submit an excuse form (available on UB learns and Chemistry Copy Center NSC 361) within one week of their absence.

STUDENTS WITH AN APPROVED ABSENCE* MAY BE EITHER ASSIGNED A MAKEUP ASSIGNMENT or PRORATED*.

You can only be excused from lab if you a Valid excuse that can be documented.

Che 201 Organic Lab Manual

Michael Brown



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Table of Contents Che 201 Organic Lab Manual

1. Understanding the eBook Che 201 Organic Lab Manual
 - The Rise of Digital Reading Che 201 Organic Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Che 201 Organic Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Che 201 Organic Lab Manual
 - User-Friendly Interface

4. Exploring eBook Recommendations from Che 201 Organic Lab Manual
 - Personalized Recommendations
 - Che 201 Organic Lab Manual User Reviews and Ratings
 - Che 201 Organic Lab Manual and Bestseller Lists
5. Accessing Che 201 Organic Lab Manual Free and Paid eBooks
 - Che 201 Organic Lab Manual Public Domain eBooks
 - Che 201 Organic Lab Manual eBook Subscription Services
 - Che 201 Organic Lab Manual Budget-Friendly Options
6. Navigating Che 201 Organic Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Che 201 Organic Lab Manual Compatibility with Devices
 - Che 201 Organic Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Che 201 Organic Lab Manual
 - Highlighting and Note-Taking Che 201 Organic Lab Manual
 - Interactive Elements Che 201 Organic Lab Manual
8. Staying Engaged with Che 201 Organic Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Che 201 Organic Lab Manual
9. Balancing eBooks and Physical Books Che 201 Organic Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Che 201 Organic Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Che 201 Organic Lab Manual
 - Setting Reading Goals Che 201 Organic Lab Manual
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Che 201 Organic Lab Manual
 - Fact-Checking eBook Content of Che 201 Organic Lab Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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