Mayville State University

CHEM 341L
Organic Chemistry IL
Fall 2025
1 Credit Hours

Course and Instructor Information

Instructor Name: Bob Miess

Contact Information:

Office: Classroom Building 108C

Email: robert.miess@mayvillestate.edu

Work phone: 34885 (on-campus) 701-788-4885 (off-campus)

Hours of Availability:

Monday, Friday: 2:00 – 3:00

Wednesday: 1:00 – 2:00

Also available for meetings on other days and times by appointment.

Office Hours Meeting Link: https://mayvillestate.zoom.us/j/87211074290

Instructional Mode: Online asynchronous

Course Dates: August 25 – December 19. 2025

Time Zone: All times indicated throughout this syllabus reflect Central Time (CT).

Zoom or Teams Link https://mayvillestate.zoom.us/j/87211074290

Course Materials and Technologies

Recommended

Let me know if you find something that might be useful for your colleagues.

MSU Technology Requirements

Course Required

Science Interactive:

Science Interactive: You will need to order your lab kit through SI. Order as soon as possible as it can take up to two weeks to arrive on your doorstep. The first information will need to be collected and reported by the end of September.

Use of Artificial Intelligence in this Course

Do Your Own Work; Cite Gen AI Properly
Colorado State University

All work submitted in this course must be your own. Contributions from anyone or anything else- including AI sources, must be properly quoted and cited every time they are used. Failure to do so constitutes an academic integrity violation, and I will follow the institution's policy to the letter in those instances.

Course Description

Laboratory to accompany Chemistry 341. This lab course is intended for students that are co-enrolled or have already taken the corresponding lecture course (CHEM 341). You are expected to have already completed the General Chemistry sequence (CHEM .121 and CHEM 122) prior to enrolling in this course. If these topics were challenging for you, then you should expect to utilize a tutor outside this class as needed. Online tutoring is available through NetTutor (see the Important Student Information document or connect with Mindy O'Connor for assistance).

Course Objectives

To successfully complete this course, the learner will be expected to meet the following objectives, as aligned to Composite Science Education Program Approval Standards through North Dakota's Education Standards and Practices Board (ND ESPB):

CHEM 341L lab Course is designed to help you grasp the fundamentals of organic chemistry approached and techniques through a series of activities and experiments. You will (a) demonstrate familiarity with equipment and techniques of an organic chemistry laboratory, (b) apply the processes of scientific inquiry, and (c) learn proper use of equipment and reagents in a safe manner.

Standards Alignment (Composite Science Education Program Approval Standards-ND ESPB):

- 13047.1 Composite Science Major/General Science The composite/general science program requires that environmental science be incorporated within other courses or as a separate course. The composite/general science program requires:1. Coursework in biology, chemistry, physics, and earth science, including: a. Minimum of twenty four semester hours in one area, b. Minimum of twelve semester hours in two other areas, c. Minimum of four semester hours in the fourth area, d. Courses must be from those that the institution allows toward graduation in the science major. 2. Study of mathematics through the pre-calculus level (college algebra and above) and statistics

Course Expectations

Monitoring Delivery Progress: You are expected to stay on top of getting your lab kit on time. If the kit is ordered directly from SI and a confirmation e-mail is not received call SI consumer service at (866) 206-0773 and get the conformation email sent to you. If your shipping/tracking is not provided within three to five days of placing the order with SI, call them. Once you have received the tracking information, monitor the progress of your kit consistently and call SI if issues arise so action can be taken by SI immediately.

If instead, the lab voucher code is ordered from the MSU Bookstore, make sure that you receive an immediate confirmation email (with your order number) after you order it. As stated in the lab kit voucher ordering instructions, lack of this confirmation indicates that there was a problem with your ordering information and should try to call the bookstore direct during their business hours at (701)

788-4823. If you receive the confirmation email but do not receive the voucher code within 48 hours then call the bookstore during their business hours to get the code. Do not forget to redeem the voucher code immediately online with SI to get the building of your lab kit started.

Instructor/Student Communication

My preferred method of contact is email and, although, it is typically sooner you should expect a response within 48 hours. Despite my email responses will typically to whichever account you initially sent the email from, you are still accountable for all academic communications sent to your Mayville State University email address.

Blackboard Announcements: Course updates and reminders are typically posted as announcements in Blackboard. You are expected to have the notification of announcements turned on in your Blackboard account. If you are not receiving announcements in a timely manner, please contact Robert Davis, the MSU Blackboard Administrator to get this issue resolved.

Science Interactive Account: The Blackboard course shell is integrated with the SI Cloud so follow the instructions closely. Regardless of which ordering method you use, you must set up your SI Cloud account by first going through the Blackboard course. When you first order your lab kit you are also setting up your SI Cloud account, which is why you are asked for login information. If you do not set up your account in this way, you will be able to only complete the first two experiments and then you will be forced to set up another SI account the correct way before you will be able to continue on with the other experiments.

Evaluation and Grading

Grading Policies

It is my responsibility to post your scores on corrected lab materials within one week of document submission deadline. It is your responsibility to submit work in a timely manner and continuously monitor your academic performance through the term in the SI Cloud and Blackboard. The gradebook in Blackboard is the official gradebook for this course. The scores listed in the SI cloud are the scores on the labs if they are submitted on time.

Participation Policies

Grading Scale

A > 90%, B > 80%,C > 70%, D > 60%

You should know what your grade is by simply looking at “weighted total column” Blackboard gradebook.

Breakdown of Grades

Grades in this course are determined by your performance on the sixteen lab activities conducted. For the specific breakdown of points per lab see the course schedule provided at the end of this document. All lab materials submitted will be evaluated based on quality of the work and not simply a check for completion. Keep in mind, you may need to perform some experiments a second time to provide better results. There are enough materials provided in every lab kit to allow this to happen.

Late work: If the deadline for submitting work has passed, you will lose 5% of the total points for each 12 hour that has passed for up to 5 days. For example, if you score 32 out of 36 points on a lab assignment but the activity was submitted13 hours late, then your score on this lab activity would be reduced by 10% and a resulting score of 28.8 points would be entered in Blackboard. Any assignment submitted later than 5 days will be graded out of 40%. Lab materials will typically be posted to the course shell at least two weeks ahead of time to encourage you work ahead in this course and make upcoming deadlines less stressful.

Please keep in mind some labs may involve steps, such as waiting for materials to dry or product to crystallize, that require two to three days so experiments should not be left until the day they are due. Also keep in mind that submitting a complete lab with sections labelled “not done” may be worth more points than submitting all parts of the lab a few days late.

Academic Dishonesty: Academic dishonesty in the lab course will not be tolerated. Academic dishonesty in this course could include fabrication of data, allowing someone else to copy your work or submitting someone else’s material as your own. It is your responsibility to protect your work from being copied by others. There is not group work in the course so all data and submitted should be original and your own.

Enrollment Verification

The U.S. Department of Education requires instructors of online courses to provide an activity which will validate student enrollment in this course. The only way to verify that a student has been in this course is if he, she, or they perform an action in the LMS, such as completing an assignment or taking a quiz. Logging into the LMS is **NOT** considered active course participation. Please complete the designated enrollment verification activity by 10:00 p.m. Sept 9. If it is not complete your enrollment in this course will be at risk.

Proctor Notification

No proctors are required for this course.

Important Student Information

In the Announcements section of the Blackboard Institution Page, you can view and download the Important Student Information document for the current academic year. It includes information about:

- ✓ Land Acknowledgement Statement

- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ NetTutor - Online Tutoring Program
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Student Learning Outcomes / Essential Learning Outcomes
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)
- ✓ Diversity Statement (Title IX)

Course Timeline/Schedule

Exp #	Topic	Due Date	Points Possible
1	Getting Started	9/9	12
2	Laboratory Safety	9/9	37
3	Lab kit Check-in	9/16	30
4	Laboratory Techniques and Measurements	9/23	43
5	Melting Points	9/30	36
6	Introduction to Chromatography	10/7	25
7	Properties of Alcohols	10/14	36
8	Synthesis and Analysis of Soap	10/21	33
9	Structural Isomers	10/28	45
10	Stereoisomers	11/ 5	49
11	LeChaterlier's Principle	11/11	31
12	Hydrolysis of Acetylsalicylic acid	11/18	50
13	Isolation and Purification of Caffeine	11/25	26
14	Organic Glassware, Refluxing, and Distillation	12/2	23
15	Organic Extraction and Drying	12/9	22
16	Recrystallization and More on Melting Points	12/16	20

The tentative Course Timeline and Schedule are subject to change as deemed necessary by the instructor.