

C105 Laboratory Schedule & Policies for Summer 2022

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INSTRUCTOR'S SCHEDULE

Time	Mon	Tue	Wed	Thu	Fri
8 AM	C105-01 <u>Lecture</u> CBB 105		C105-01 <u>Lecture</u> CBB 105	C105 01Lab 1 **81197 in CBB 226	C105-01 <u>Lecture</u> CBB 105
9 AM					
10 AM		C105-01 <u>"Discussion"</u> CBB 105			
11 AM	*Office Hours		*Office Hours		Committee Meetings & Seminars
Noon					
1 PM					
2 PM	C105 01Lab 2	C105 01Lab 3	C105 01Lab 4		
3 PM	**81198	**81199	**81200		
4 PM	in CBB 226	in CBB 226	in CBB 226		

***Office Hours:** If you need help at a different time, please contact me by email to arrange either an in-person or zoom meeting.

In-person mask Policy: You must wear a mask for individual help in my office.

Zoom meeting Policy: Your computer camera & audio must be turned on for Zoom Help meetings.

****Lab-flow enrollment codes** are the **5-digit numbers in red** for lab sections 1-4 (that is, your lab-flow enrollment code is either 81197, 81198, 81199 or 81200).

COURSE OBJECTIVES: The C105 laboratory is designed to introduce students to:

1. General laboratory & chemical safety.
2. Proper use of common laboratory glassware & instruments.
3. Provide hands-on working examples of lecture related concepts and skills, specifically: gravimetric methods (based on weight differences), volumetric methods (based on volume differences), calorimetry methods (based on temperature differences), spectroscopic methods (based on differences in the absorption of light energy).

REQUIRED MATERIALS:

1. **Approved Safety goggles!**
2. **Lab-Flow Registration: "Lab-Flow"** (the electronic learning management system, LMS, UWSP has contracted with for lab instructions, informational videos & on-line grading. You can purchase lab flow enrollment either at the bookstore or directly from Lab Flow. The direct purchase option will save you some money but has a very restricted return policy (if you decide to drop the class).
3. **Electronic Calculator** again, a very inexpensive calculator like a TI-30 will suffice. For the lab portion of C105, it is okay to use the calculator function on your phone.
4. **Access to a personal computer (or lap-top) & printer.**

PROCEDURES & DUE DATES for EACH LAB-FLOW EXERCISE

1. Observe **informational videos on LAB-FLOW** needed to complete the lab exercise.
2. Complete the online **pre-laboratory quiz** based upon the content in the informational videos and laboratory instructions provided as a PDF (number 3 below). You are allowed two attempts for each quiz and your grade is equal to best score of the two attempts (not an average of the two tries). **Each quiz has a due date of midnight on Sunday before each lab meeting.**
3. Print off a hard copy of the **laboratory instructions & data sheets** provided as a **pdf document** for each lab exercise. Complete the required data and follow-up questions directly on the hard copy which must be documented (photographed) with each electronically submitted lab report.
4. **All lab reports have a due date of midnight on Friday after the lab meeting.**

Lab-Flow Points vs. Letter-Grade Points

- **20 points** for the lab safety quiz
- **10 points** for each pre-lab quiz.
- **10 points** for each lab report.
- Therefore, each lab meeting accounts for **20 points** (260 points total) towards your letter grade.

LAB ABSENCES

In-person laboratory attendance is a mandatory component of a passing letter grade in C105. You cannot pass the course with more than three lab absences (25% of the total lab exercises). No provisional (virtual data) will be provided (or graded) for any make-up lab exercises. If you must miss a lab exercise, let your instructor know as far in advance as possible. Since pre-lab quizzes are graded separately from lab reports, be sure to complete the pre-lab quiz even if you can't attend the lab meeting in-person. Up to two missed lab meetings will not have a negative impact on your grade (but if you complete all lab assignments, you can gain up to 20-points of extra-credit towards your letter grade).

Grading of Pre-lab Quizzes and Lab Reports

- Pre-lab quizzes (and the lab safety quiz) are graded electronically via LabFlow.
- Lab reports are submitted electronically at the end of each week (Friday midnight). The main grading of each report is done electronically via a LabFlow algorithm . . . however, I typically have to grade by hand all open ended questions and I will typically review (& possibly deduct additional points) for completeness of recorded data and calculations.
- I will do my best to add comments electronically to each one of your reports, however, never hesitate to ask me for clarification regarding the grading of lab reports.

C105 Lab Schedule FALL 2022

Week	Lab Exercise	Pre-Lab Quiz Due Date (<u>SUNDAY</u>)	Lab Report Due Date (<u>FRIDAY</u>)
1	Lab Check-in & Safety Quiz	Sept. 11, 2022	N/A
2	Exp # 1 Basic Laboratory Techniques	Sept. 11, 2022	Sept. 16, 2022
3	Exp #2. Density & Specific Gravity	Sept. 18, 2022	Sept. 23, 2022
4	Exp #3. Empirical Formulas	Sept. 25, 2022	Sept. 30, 2022
5	Exp #4. Water Content of a Hydrated Salt	Oct. 2, 2022	Oct. 7, 2022
6	Exp #5. Introduction to Light and Matter	Oct. 9, 2022	Oct. 14, 2022
7	Exp #6. Colorimetric Determination of Iron	Oct. 16, 2022	Oct. 21, 2022
8	Exp #7. Classification of Amino Acids	Oct. 23, 2022	Oct. 28, 2022
9	Exp #8. Quantitative Separation of a Mixture	Oct. 30, 2022	Nov. 4, 2022
10	Exp #9. Chemistry of Copper & Percent Recovery	Nov. 6, 2022	Nov. 11, 2022
11	Exp #10. Titration: Determining the Concentration of an Acid (with standardization)	Nov. 13, 2022	Nov. 18, 2022
12	Thanksgiving Break / No Lab Exercise	NA	NA
13	Exp #11. Constant Pressure Calorimetry	Nov. 27, 2022	Dec 2, 2022
14	Exp #12. The Ideal Gas Law & Lab Check-Out	Dec. 4, 2022	Dec. 9, 2022
15	<u>Lab Drawer Check-Out</u>	NA	NA