

**A. Getting Starting: What do you need to do immediately in the first week of classes?**

1. **Purchase Labflow software and enroll in the labflow course.** Purchasing the software from the bookstore has some advantages in that you can charge it to your student account and return it if there are any problems. If you would rather take your chances and save a little money, you can purchase it directly from the vendor. Use your section code when you enroll so the program recognizes what lab section you are in (see labflow information on Canvas for more info).
2. **Purchase goggles**, if you do not already own some. You will need to bring your goggles with you every week, including the first week (Check in).
3. **Get the textbook from text rental.** You will have assigned readings and problems from the textbook every week.
4. **Access the Canvas page.** Make sure you can access the Canvas page for the course. This page will contain most of the useful information for the course, including the syllabus, weekly assignments, and weekly quizzes.

**B. Quick Summary of Graded Responsibilities**

1. **Before you come to lab each week**– Watch Labflow videos, read the experimental procedure, then *take the pre-lab quiz on Labflow.*
2. **Attend lab each week**– Attending lab is required to pass the course. You will follow along with the laboratory procedure using Labflow, then *submit your results on Labflow.* You cannot earn credit for laboratory activities if you are not present.
3. **Attend lectures with group activities**– *We will often do group activities during the lecture period* that can result in a small amount of extra credit. These days will not be announced in advance, so it is best to attend all lectures. You must be present during this session to earn credit for this activity.
4. **Complete Canvas quizzes each week** – These will open after discussion on Thursday and close at midnight on Thursday. These will contain a few homework-related questions and require you to upload scans of your homework.
5. **Do well on hour exams and the final exam** – See the schedule for when these will occur.

**C. My information:** This is my 16<sup>th</sup> year as a chemistry professor at UWSP. I have taught 100-level courses for many years in addition to all levels of organic chemistry. I am not a fan of busy work, but it is important for students to recognize that reading and working problems are a necessary part of learning science. We will try to find a healthy balance so that Chem 101 is rewarding but not overwhelming. If you ever have any problems or questions, please let me know before or after class, via email, or by tracking me down on the 4<sup>th</sup> floor of the CBB.

Dr. Nathan Bowling  
Office: CBB 442  
Lab: CBB 436

[nbowling@uwsp.edu](mailto:nbowling@uwsp.edu)  
(715)346-4253

*My Schedule: Please come see me during any of the unshaded blocks below. During "Office Hours," I will be waiting in my office for students to visit. During "Chem 399/101 Appointment" times, I will likely either be in my office (CBB 442) or my research lab (CBB 436). Feel free to track me down or make an appointment during these times.*

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>	<b>101 Lab 01L2 CBB 220</b>	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>
09:00	<b>Class Prep &amp; Grading</b>	Chem 399/101 Appointments	<b>101 Lab 01L2 CBB 220</b>	Chem 399/101 Appointments	Chem 399/101 Appointments
10:00	<b>Class Prep &amp; Grading</b>	Chem 399/101 Appointments	<b>101 Lab 01L2 CBB 220</b>	Chem 399/101 Appointments	<b>Class Prep &amp; Grading</b>
11:00	<b>101 Lec CBB 105</b>	Chem 399/101 Appointments	<b>101 Lec CBB 105</b>	Chem 399/101 Appointments	<b>101 Lec CBB 105</b>
12:00	Chem 399/101 Appointments	Chem 399/101 Appointments	Chem 399/101 Appointments	<b>Class Prep &amp; Grading</b>	<b>Office Hour</b>
13:00	Chem 399/101 Appointments	Chem 399/101 Appointments	Chem 399/101 Appointments	<b>101 Dis 130 CBB 105</b>	Chem 399/101 Appointments
14:00	Chem 399/101 Appointments	<b>Meeting/ Seminar</b>	Chem 399/101 Appointments	<b>Office Hour</b>	<b>Meeting/ Seminar</b>
15:00	Chem 399/101 Appointments	Chem 399/101 Appointments	Chem 399/101 Appointments	Chem 399/101 Appointments	Chem 399/101 Appointments
16:00	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>	<b>Class Prep &amp; Grading</b>

#### D. What I expect/what you can expect from me

1. **I expect** that students will attend every lecture, discussion, and laboratory for which they don't have a legitimate illness (or quarantine), university event (e.g. athletic competition, conference), or rare family emergency. **I expect** that students who need to miss discussion, laboratory, or exams for the above reasons will give me notice in advance of the absence. **You can expect** that if you need to miss class for one of the reasons stated above, and you give me notice in advance of class, I will do my best to find reasonable opportunities for you to make up missed work in-person. (Note that you should not expect opportunities to make up work online if the missed assignment was an in-person activity.)

2. **I expect** that students will, at a minimum, read all of the assigned text and work all assigned problems from the textbook. **You can expect** that I will do my best to provide some foundation in lecture that will help you understand this text and facilitate your solving of assigned problems. **You can expect** that I will make myself available outside of class time to help you if you are struggling to understand course content or you need assistance with working problems.

3. **I expect** that students will follow all safety guidelines required by the University. This includes properly wearing face-coverings for as long as this is required and properly wearing eye-protection in the laboratory when required. **You can expect** that I will treat you with respect and provide gentle reminders to non-habitual offenders.

**Course Description: CHEM 101. Basic Chemistry.** (5 cr.) This course will start with an introduction to basic scientific principles and measurements and continue into understanding the physical world through states of matter, density, etc. From there, we will transition to the very foundation of chemistry: the atom. Students will build from knowledge gained to understand the basic principles of molecules and reactions. In this process, students will gain both a qualitative and quantitative understanding of chemicals. This will serve as the foundation for discussions of chemistry in the world around them. These topics may include pollution, energy, medicine, nutrition, and the chemistry of useful materials, such as polymers. Students are expected to display an understanding of atoms and molecules, use rudimentary math skills to solve problems, and, most importantly, apply what they have learned to solve more complex conceptual problems.

**Text:** "Conceptual Chemistry", Fifth Edition by J. Suchocki. Prentice Hall 2014 (ISBN: 978-0-321-80441-9). **Required.** Available from text rental.

**Labflow:** Purchase your Labflow code at the bookstore or online. **Required.**

Once you purchase the software from the bookstore or the vendor, you will need to enroll online (see accompanying PDF for instructions). In this process, you will need to input your section code (Table 1)

**Table 1. Section information for labflow**

Section Code	Lab Section	Lab Time	Lab Instructor
40976	01L2-LAB	Wednesday, 8am-10:50am	Dr. Bowling
40977	01L3-LAB	Tuesday, 11am-1:50pm	Dr. Tanke
40978	01L4-LAB	Wednesday, 2pm-4:50pm	Dr. Czerwinski

#### Grading Breakdown and Policies

Item	Points
Quiz points (9 x 10 pts each)	90 pts
Lecture exams (3 x 100 pts each)	300 pts
Safety Quiz (1 x 5 pts)	4 pts
Prelab Quiz (12 x 3 pts each)	36 pts
Lab Reports (10 x 7 pts each)	70 pts
Final exam (100 pts)	100 pts
	600 pts

*Grade cut-offs:* 100-90 = A or A-; 89-80 = B+, B, or B-; 79-70 = C+, C, or C-; 69-60 = D+ or D; < 60 = F.  
*Grade cut-offs will not be raised but may be lowered at the instructor's discretion.*

**Course Summary:** In addition to my three lectures every week, you will be required to complete assigned readings and problems from the textbook. Completion and comprehension of these problems (and corresponding reading) will be absolutely necessary for success in this course. ***If you show up to lecture, take good notes, then only study your lecture notes, you will almost certainly fail this course!*** As motivation for keeping up with the material, you will be awarded a few points for correctly answering on-line quiz questions that are related to the homework every week along with uploading scans of your work.

**On-line quizzes:** Timed, on-line quizzes will address the answers to homework problems. Quizzes must be completed by midnight Thursday night. As part of these quizzes, you will upload scans of your work. Any problems (technical, etc.) must be reported to the instructor *before* the due date. Students that do not complete the quiz nor report a technical problem by the due date will receive *no credit*.

**Discussion sections:** Discussion sections will be for reinforcing the concepts needed to complete weekly homework assignments. This will be accomplished via question/answer sessions or related worksheet problems. The attendance policy for discussion is the same as for lecture.

**Make-up policy:** Make-up exams *may* be given **at the instructor's discretion**. Students with conflicts due to scheduled events (e.g. UWSP athletic events) must give the instructor at least one week of advanced notice and should expect to take the exam early rather than late.

**Attendance:** Attendance at laboratory sessions is required. Make-up labs *may* be allowed **at the instructor's discretion**. Absences can only be excused by contacting the instructor before or during the missed laboratory session. Excused absences will be made up at another time, when possible. Not contacting the instructor or contacting the instructor after you have missed a lab will result in an unexcused absence. **Students with more than two unexcused absences over the course of the semester will receive a failing grade in the course.**

You do not need to notify the instructor about absences from lecture or discussion. You should get notes from your classmates (I do not have notes for you). If there is any confusion about the topics you missed, I will be happy to help during my office hours or during a scheduled appointment.

#### Study Tips:

- Keep up with the material. Do not get off to a slow start. The course is cumulative. The more effort you put in at the beginning, the easier the course will be.
- Do the problems. Do the problems. Do the problems. The problems that I assign will be closely related to the quiz/exam questions. Make sure you understand the problem rather than just finding the answer.
- Read the book. The text often provides a different perspective, and more detail than lecture. The book is written so that you can pick it up and learn a topic without any prior introduction to a given topic. Do not read the book like a novel. Try to "understand" the chemistry that is being presented.
- Work with others. Once you start doing something wrong, it's hard to learn how to do it right. When you work with others, it's less likely that you will get too far off the path.
- Ask questions. Answering questions makes a lecture much more enjoyable for me to give. I would much rather have an interactive classroom than give a monologue on chemistry.
- Come to my office for help when you need it.

**Schedule of Events:**

WEEK	Dates	Thursday Quiz/ Friday Exam Schedule	Laboratory
1	Jan. 24 <sup>th</sup> -28 <sup>th</sup>	No Quiz	Check-in and Safety
2	Jan. 31 <sup>st</sup> -Feb. 4 <sup>th</sup>	Quiz #1	Conversion Factors and Problem Solving
3	Feb. 7 <sup>th</sup> -11 <sup>th</sup>	Quiz #2	Density and Specific Gravity
4	Feb. 14 <sup>th</sup> -Feb. 18 <sup>th</sup>	Quiz #3	Separating the Components of a Mixture
5	Feb. 21 <sup>st</sup> -Feb. 25 <sup>th</sup>	Exam #1	Introduction to Light and Matter
6	Feb. 28 <sup>th</sup> -Mar. 4 <sup>th</sup>	Quiz #4	Water Content of a Hydrated Salt
7	Mar. 7 <sup>th</sup> -11 <sup>th</sup>	Quiz #5	Molecular Modeling of C, N, and O Compounds
8	Mar. 14 <sup>th</sup> -18 <sup>th</sup>	No Quiz or Exam	No Lab
9	Mar. 28 <sup>th</sup> -Apr. 1 <sup>st</sup>	Quiz #6	Preparation and Properties of Soap
10	Apr. 4 <sup>th</sup> -Apr. 8 <sup>th</sup>	Exam #2	Chemistry of Copper and Percent Yield
11	Apr. 11 <sup>th</sup> -15 <sup>th</sup>	Quiz #7	Chemical Reactions and Equations
12	Apr. 18 <sup>th</sup> -22 <sup>nd</sup>	Quiz #8	LeChatelier's Principle
13	Apr. 25 <sup>th</sup> -29 <sup>th</sup>	Quiz #9	Aspirin and Other Analgesics
14	May 2 <sup>nd</sup> -6 <sup>th</sup>	Exam #3	Energy and Specific Heat
15	May 9 <sup>th</sup> -13 <sup>th</sup>	No Quiz or Exam	Check-out
Final Exam		Monday, May 16 <sup>th</sup> , 8:00 am – 10:00 am	

**Important Rules:**

1. Do not work together on Canvas quizzes! Do not turn in scans of someone else's work! A violation of either of these will result in Academic Misconduct proceedings and a failing grade in the course. Note: I encourage you to work with others to figure out the correct answers for book problems. Once you start the quiz, however, this must be 100% your own effort.

2. Do not turn in a lab report if you were not present in the laboratory! A violation of this will result in Academic Misconduct proceedings and a failing grade in the course. Note: If you need to miss lab for illness, your grade for the lab report will be 0 pts unless you can make up the lab work in one of the other scheduled lab sessions. In anticipation of people needing to miss due to illness or quarantine, everyone's lowest two lab report scores will be dropped.