

**Northwest Florida State College**  
**Tentative Syllabus for College Chemistry I (CHM1045C)**  
**Fall 2016, Room S224**

**Ref.# 10498, TR 9:30 am – 10:50 am and Thursdays 12:30 pm – 3:20 pm**

**Ref.# 10500, MW 10:00 am – 11:20 am and Wednesdays 12:30 pm – 3:20 pm**

**Ref.#10502, TR 8:00 am – 9:20 am and Tuesdays 12:30 pm – 3:20 pm**

**Dr. Lisa Struck**

**Instructor Contact Information:**

Science Department Phone 729-5376

**My Office Phone: 729-5296 or ext. 5296**

**Office: Room# S216**

Email: [struckl@nwfsc.edu](mailto:struckl@nwfsc.edu)

Faculty Website (practice tests, etc.): <http://www.nwfsc.edu/faculty/profiles/struck-lisa>

D2L(class resources & some labs): [www.nwfsc.edu](http://www.nwfsc.edu) (Distance Learning, lab experiments, etc.)

Mastering Chemistry (online homework & study resources): [www.masteringchemistry.com](http://www.masteringchemistry.com)

**Tentative Office Hours:**

Will be held in my office (S216) OR in the classroom (S224).

I will be in my office during these times, you do not need an appointment, please just stop by.

**Mondays: 11:30 am – 1:30 pm, and 1:30 pm – 2:30 pm** in the Academic Success Center (ASC), across from the bookstore. The session at ASC is a group chemistry help session. Anyone in chemistry at this college is welcome to come by. Check in with the front desk in the ASC. If more than a few students show up, then we will be in a classroom close by.

**Wednesdays: 11:30 am – 12:30 pm**

**Tuesdays and Thursdays: 11:00 am – 12:30 pm**

**Fridays: 10:30 am – 12 noon, except 8/26, 9/16, 10/7, 10/28, 11/18.** However, on Fridays that I am not at the college, I will be able to respond to email if you have questions.

I am often here after 2:30 pm on Mondays, after 3:20 pm (after labs) Tues., Wed., and Thurs.; and Friday afternoon

After class is a good time to talk to me. Times other than office hours available by request. Please Call or Email Me!

**Text & Materials:**

- 1) The custom textbook (ISBN: 9781323431146) for this course is labeled as Volume 1 and consists of the first half of the book: Chemistry: A Molecular Approach, by Tro, 4<sup>th</sup> Edition (ISBN: 9780134112831). The custom text is in campus bookstore and packaged with the access code listed below at a discounted price.
- 2) Mastering Chemistry Access Code (packaged with custom book in bookstore or buy code online).
- 3) Catalyst custom laboratory notebook. (has Dr. Kurt Teets name listed) **{Please look through your lab book to make sure ALL pages are there. Sometimes pages that you need to fill out have been used or torn out. Blank pages are also posted on my faculty website, please print what you need before lab.}**
- 4) Safety goggles rated for chemical splash, closed-toe shoes, and hair tie for lab.
- 5) Nonprogrammable scientific calculator. Lab apron rated for chemical splash is optional.

**Calculator:**

You must have, bring to every class, and know how to use a scientific calculator. I recommend the TI-30x IIS calculator. You should be able to buy one for less than \$20. **The use of**

**programmable/graphing calculators will not be permitted during EXAMS or QUIZZES.** You need to bring a calculator (any type) to **every class!**

### **Faculty Website:**

Includes syllabus, schedule, and reviews for exams, practice exams and answers, and “Posted Grades” where I periodically post your current grades listed under a 4 digit PIN number that you will have to give me. My Faculty Website is: <http://www.nwfsc.edu/faculty/profiles/struck-lisa>.

**Email:** I will periodically email the class from my roster using your college email. You may be able to forward the college email to an email that you use more often. I may periodically email the class from my roster using Mastering Chemistry. Please enter an email address in Mastering Chemistry that you check so you will receive messages that you may need for class.

### **Desire-2-Learn (D2L)**

Desire2Learn or D2L has study resources that I have written that you may find useful. Some are games for learning things such as the elements names and symbols, as well as practice problems. Also on this site are some of your lab experiments that you must print and read before lab. To log on to D2L, go to [www.nwfsc.edu](http://www.nwfsc.edu), and click on the D2L link on the top menu bar. Your username is your Raidernet username and password. Directions to log in are on the log in page.

Your courses will be listed under the current semester. (i.e. “Semester – Fall 2009”). You may need to click on the line of the Semester title in order to see your courses listed below. Click on the CHM1045 course. Once you are in the course, click on the “Course Materials” on the menu bar then click on “Content.” You will then see the Table of Contents. The first category listed is “Links to websites”. Click on the arrow to the right of the title to see what is in this section. Currently, there is just a link to my Faculty website and to Mastering Chemistry which is where your online homework is located. Next category, “Syllabus, Schedule, and Grades” has a copy of the course syllabus, the schedule for this class, and grades that I post. Note the grades are not in the menu bar “grades” option in D2L. In the category “Dr. Struck’s Lectures”, are video lectures for roughly half of the chapters. I will record the others as soon as I can. To watch these video lectures, you must have Adobe Acrobat Reader and Flashplayer. You must download the lecture first, then a play button should appear. Last time I checked, you cannot install Flashplayer on android phones and tablets (some company fight) but it should work on a lab top or desk top computer. I’m looking for a fix to this... The “Lab Experiments” are labs that you need to print, read, and use in lab. (Some experiments are in your lab book and others are here in D2L.) The “Lab Data Sheets” are the pages at the end of each lab in your lab book that you fill out with information that you measure in lab. You can print the Data Sheets to write on in lab, if you have already written on the pages in your book. In addition, there are a few practice problems, games to learn chemistry, and handouts. I plan to add more of these resources when I am able.

### **Web-based Required Homework (10% of grade)**

Online homework is on the Mastering Chemistry website. You will need a student access code which is sold with the book in the bookstore or sold online separately for a higher price. This course ID is: [CHM1045Fall2016Struck](http://www.masteringchemistry.com). Go to [www.masteringchemistry.com](http://www.masteringchemistry.com) and click New Students under Register. See remaining instructions at the end of this Syllabus. Before doing the online Homework (HW), I recommend first practicing the Sample Exercises within the chapters and the problems at the end of each chapter, especially the ones that have answers in the back of the book to check if your answer is correct. The online Homework is on the publisher website: Mastering Chemistry. Some of the HW are tutorial problems that give hints as well as feedback on incorrect answers. There is no penalty for using hints, so please use them. You may work different parts of a HW at different times. I recommend that you wait to submit your answers until after we cover the topics in class. You will be allowed either 2 or more attempts for each homework question. I am trying to give you incentive to learn from the problems you get wrong, and try again. I recommend logging into this site as soon as possible to learn how to use the system and solve any

technical difficulties long before the homework deadlines. I highly recommend the Study Area on this website for resources to help you learn chemistry. Check the grading policy on this website for grading details, such as the penalty for each wrong answer. For every chapter, there are also Practice Problems. I do not record this grade. Please use these not just for practice, but to help you figure out how to type in the correct format for Mastering Chemistry, so you don't waste attempts on the actual homework. The first assignment listed is 01-Introduction to Mastering Chemistry, this includes the directions on how to type in and format answers.

Other helpful information: For a Test or Quiz, I will give you any information that you need, that is not on the list to memorize, above. For Homework, you will have to look up some information in your text book or lecture notes. For Lab Reports, you may have to look up information in that lab write-up, for example, the density of water. It is usually better to look up information in the textbook or lab book, because those are the numbers that the correct answer is based on. For common conversions, those would be the same. If you look up something online, you have to make sure that you trust the source.

### **Tentative Schedule and Exams:**

A more detailed schedule will be distributed in the near future and available on the website.) (A more detailed schedule (which is considered part of the syllabus) will be distributed in the near future and available on the website. Expect some changes in the syllabus and due dates, depending on class progress.

Test 1: Chapters 1 & 2

Test 2: Chapters 3 & 4

Test 3: Chapters 5, 6 & 7

Test 4: Chapters 8, 9 & 10

Final Exam: This will be the standardized American Chemical Society (ACS) exam and will cover Chapters 1- 11. You must take this exam. There is a study guide with practice problems for this exam prepared by the ACS available in the Campus bookstore (**This book is optional!**). I recommend you study notes and textbook first before you try to use this booklet. The ACS booklet includes Chemistry I and Chemistry II information separated by topic (such as energy) and not separated by semester.

### **Grades:**

Exams: The 5 exams (Test 1-4 plus Final Exam) will be averaged together (add five grades then divide by 5 to get your Exam Average) and will be 70% of your course grade. There will be no “drop grade”, however you may replace the lowest test score (Test 1-4) with your Final Exam score. (In this case, your Final Exam score counts twice, once for the Final Exam and once for your lowest Test score.) I offer very little or no extra credit, because I would rather that you concentrate on the course material. **There will be NO Make-up Exams.** A missed exam even for an excused absence will be your lowest test score that will be replaced by your final exam score. You are responsible for all material given in lecture, in the textbook, and homework.

Online Homework: Online homework is 10% of your total grade. Each Homework Set is worth a different number of points. To get your homework grade, take your total number of homework points earned divided by the total points possible, then multiply by 100 to get the % grade. None of the homework grades will be dropped. Some homework may receive a curve, however, you must have completed a significant fraction of the homework in order to receive the curve.

Lab Reports: Lab reports are 10% of your total grade. Lab Experiments are located in your lab book or in D2L. On your schedule each lab is labelled with a page number from your lab book, or that it needs to be printed from D2L. Before the lab, you need to study the lab you will perform. When you perform a lab experiment, you measure various properties and then record this information on the Lab Data Sheet. To complete the Lab Report, you may also have to do and show all calculations and answer questions. Lab reports will be due exactly one week after the lab was performed at the beginning of lab. Lab reports turned

in up to one week late will be assessed a 10% penalty, and up to 2 weeks late will receive a 30% penalty. Lab reports will not be accepted after 2 weeks after the due date. Lab Reports will NOT be accepted during Finals week. You will be allowed to drop one lab report grade. Lab Reports must have your name, the name of the lab, and group members' names on the first page. Lab Reports will include any data sheets filled out during lab, any assigned problems, and all calculations with units must be shown for full credit in the space provided or on an additional sheet of paper (not in the margins!). Please do not hand in the entire lab write-up, but just the requested pages. Pages need to be in order of page numbers (if they have numbers) or in the order that they are completed in the lab. Lab Report pages must be stapled together. You must turn in the actual sheets that you wrote on (data and calculations), no photocopies. If you work with lab partners, **ONLY** the data will be the same. When you work a problem in a lab report, you must show **ALL** work for any credit because this a section where some people copy (cheat). Everyone must always turn in their own lab report. Any work that appears to be copied from your neighbor will receive a zero on the entire assignment.

Announced/Unannounced Quizzes: Most or all quizzes will be lab quizzes, which are taken just before a lab, and are 10% of your total grade. These quizzes will take place immediately before a scheduled lab. Half of the lab quiz will be on the material (primarily calculations) in your last lab report (the lab due that day or turned in previously). The other half of the quiz will be on the experiment that we are about to do. I usually will ask what values will you be measuring that day and how you will measure those values. I am looking to see that you understand what you are doing in lab and why. Print legibly and write in complete sentences. Include the important details of the overall procedure. When you study a lab beforehand for the quiz, also study the Data Sheet which usually summarizes the data that you will record. You do not need to remember names of chemicals or numbers like how many grams you weigh out of a substance. To get your lab quiz grade, calculate your average quiz grade, then multiply by 2 to get the % grade. (Each lab quiz is worth 50 points.) You need to be prepared to take a quiz before every lab; however, there may be labs that we don't have a quiz beforehand. You will be allowed to drop one lab quiz. You can miss one lab without penalty (for illness or other emergencies); however, it is up to you to get the information on a missed lab to study for the next Lab Quiz.

Final Course Grade: To calculate your final course grade =  $0.70 * (\text{Exam Average}) + 0.10 * (\text{Homework grade}) + 0.10 * (\text{Lab report average}) + 0.10 * (\text{Lab quiz grade})$

The final letter grade is approximately based on:

90-100%, A                      80-89%, B                      70-79%, C                      60-69%, D                       $\leq 59\%$  , F

Posted Grades: I periodically post your current grades on my Faculty website and/or on D2L. You need to click on "Posted Grades" or "Grades1045". The grades are posted using a 4 digit PIN number that you will have to give me. After the first couple of tests, I will also post what you need to get on each of your remaining tests (including the final exam) to get an A, B, or C in the course. They are the last few columns of the grades spreadsheet. The first few columns are calculations are listed for what you need to get on all remaining exams, if you replace your lowest test grade with the Final Exam grade, and the last few columns are calculations of what grade you need to get on all remaining tests, if you do not drop a test grade. For example, say you want to get a B in the course, if the first B column says 84.5 and the second B column says 81.3, then you need above 81.3% on your remaining tests. These calculations do not usually include extra credit. At the beginning of the semester I do not drop lowest lab and quiz grades in these calculations; and later in the semester I do drop lowest lab and quiz grades in these calculations.

### **Laboratory Policy and Safety:**

- You can miss one lab without penalty (for illness or other emergencies); however, it is up to you to get the information on a missed lab to study for the next Lab Quiz.
- All Experiments are to be performed individually unless otherwise instructed.

- Safety Goggles are **REQUIRED**, and must be worn AT ALL TIMES. Long hair must be secured. Do not wear ties or open-toed shoes.

### **Plan To Succeed!**

Chemistry does not need to be *that* difficult! It is however, a lot of material that takes a lot of time to learn. You seriously need to plan to study Chemistry about 9 hours a week. Schedule days and times that you will study Chemistry. To get the most out of lecture classes, read the Chapter *before* class.

You must learn and practice solving problems. It looks much easier when someone works it out than when you go through the thought process yourself. I suggest working the Sample Exercises in the Chapter first by covering the answer and see how far you can get. Then if you need a hint, peek at the solution briefly and continue trying to work it out for yourself. Then work the problems in the back of each Chapter and/or the homework practice session online.

Many students have trouble with the math in Chem I. You need to have algebra skills to succeed in Chemistry. You may need to check the prerequisites for this course or brush up on your algebra now.

I have noticed a direct correlation between grades and coming to class and doing all the homework. Those students who always come to class and do the homework usually do well grade wise, and those who don't always come to class and don't do all the homework usually perform poorly.

There are some things in Chemistry that we need to memorize so that we can work efficiently and not have to keep looking up everything. For memorizing, I recommend making flash cards using index cards.

Ask questions in class and in my office. Nine times out of ten, someone else has the same question. Study groups with other students are often helpful. Come by my office, or call. I'm more than happy to meet students at other times not listed as my office hours. Please let me help you learn Chemistry!

P. S. Don't be afraid to ask questions when you don't understand, or even when you do understand but really want to know more!

### **Chain of Command (for any unresolvable problem with the instructor):**

- 1) Please talk to me first.
- 2) Dr. Phil Heise, Science Department Chair, 729-5280, or ext. 5280.
- 3) Dr. Anne Southard, Dean, 729-6040.

### **General Information:**

- All work must be legible. If I can't read it, you cannot get credit.
- All work must have your first and last name on the first page of any work turned in.
- Syllabus and Schedule may be revised by the instructor at any time based on the progress of the class or other factors.
- There is a computer lab downstairs from our chemistry lab that has computers, internet access, and a printer (however, you must provide your own paper).
- Academic Success Center provides many student services including free tutoring! Located in the Student Activities Bldg. K, across from the bookstore, and Phone: 729-5389. There is also free online tutoring with live chemistry tutors through SMARTHINKING, which you can access in your Raidernet account. (Also, the chemistry tutors are online live until 2 am during the week!)
- If you have a disability for which accommodations may be appropriate to assist you in this class, please contact the Office of Disability Support Services on the 2<sup>nd</sup> floor in the Student Services Center on the Niceville Campus. The counselor for Students with Disabilities may be reached by calling 729-6079 (TDD 1-800-955-8771 or Voice 1-800-955-8770). Students qualified for extended testing time or other accommodations MUST notify me at least 1 week before the test so I know to send the test to the Office of Disability Support Services, AND the student MUST make an appointment to take the test in the Testing Center (SSC, upstairs). The test MUST be scheduled the SAME DAY AS YOUR CLASS is taking the exam or the day before, otherwise, you will be expected to take the exam with the class with no additional

time. Any exam taken after the day of the test will be given a zero. (Often the test is already graded and returned to the class the next day.)

- Please arrive for class early or on time. Late people disrupt students who are trying to pay attention. Please also do not step out of class for a phone call. Every time the door opens and closes, it disrupts students trying to learn. However, if you are late, please enter the classroom right away and quietly. I prefer that you not miss any more material.
- Students are responsible for adherence to all college policies and procedures, including those related to academic freedom, cheating, classroom conduct, and other items included in the *Northwest Florida State College Catalog and Student Handbook*. Students should be familiar with the rights and responsibilities detailed in the current *Catalog and Student Handbook*. Talking during an exam constitutes cheating. Plagiarism, cheating or any other form of academic dishonesty is a serious breach of student responsibilities and may trigger consequences which range from a failing grade to formal disciplinary action.
- Cell phones, pagers and other such electronic devices must be turned off during class time. Communication by electronic device during class is strictly prohibited unless expressly designated as part of the learning activities. Use of electronic communication devices during examinations or other graded activities may constitute grounds for disciplinary action. Where emergency or employment situations *require* access to electronic communication services, arrangements may be made *in advance* with the instructor.
- In the event of unusual or extraordinary circumstances, the schedule, requirements, and procedures in this course are subject to change. If the college closes for inclement weather or other emergency, any exams, presentations or assignments previously scheduled during the closure period will automatically be rescheduled for the first regular class meeting held once the college re-opens. If changes to graded activities are required, students will not be penalized as a result of the adjustments, but will be responsible for meeting revised deadlines and course requirements.
- Class attendance is an integral part of the learning process for this course. Students are expected to attend class regularly. Please email, call me, or talk to me prior to an absence (or during/after absence due to illness). It is the student's responsibility to withdraw from a course. **Instructors are no longer allowed to withdraw a student.** All absences will be reported to financial aid. Three tardies will equal one absence.
- If you change your grade to an audit, you will be required to attend all classes and labs. You do not have to take tests, quizzes, or hand in lab reports. Failure to attend converts the audit into an F.
- Please do NOT come to class or lab if you are sick! The reason you may drop one lab and quiz grade is in case you get sick. If you miss a lab, you may turn in the lab at the next class meeting. If you are sick for more than one lab and if you have a doctor's note for both absences then I will work with students on a case by case basis. Please get the flu vaccine!



Dear Chemistry 1 Student:

In this course you will be using MasteringChemistry™, an online tutorial and homework program that accompanies your textbook.

**What You Need:**

- **A valid email address that you check often**
- **A student access code:** (provided with book)
- **The ZIP code for your school:** 32578
- **A Course ID:** CHM1045Fall2016Struck (Provided by your instructor)

**Register**

- Go to [www.masteringchemistry.com](http://www.masteringchemistry.com) and click **New Students** under Register.
- To register using the Student Access Code inside the MasteringChemistry Student Access Kit, select **Yes, I have an access code**. Click **Continue**.

–OR– **Purchase access online**: Select **No, I need to purchase access online now**. Select your textbook and whether you want to include access to the eBook (if available), and click **Continue**. Follow the on-screen instructions to purchase access using a credit card. The purchase path includes registration, but the process may differ slightly from the steps printed here.

- **License Agreement and Privacy Policy**: Click **I Accept** to indicate that you have read and agree to the license agreement and privacy policy.
- Select the appropriate option under “Do you have a Pearson Education account?” and supply the requested information. Upon completion, the **Confirmation & Summary** page confirms your registration. This information will also be emailed to you for your records. You can either click **Log In Now** or return to [www.masteringchemistry.com](http://www.masteringchemistry.com) later.

### Log In

- Go to [www.masteringchemistry.com](http://www.masteringchemistry.com).
- Enter your Login Name and Password and click **Log In**.

### Enroll in Your Instructor’s Course and/or Access the Self-Study Area

Upon first login, you’ll be prompted to do one or more of the following:

- Enter your instructor’s MasteringChemistry Course ID.
- Select your text, if available, and **Go to Study Area** for access to self-study material.
- Enter a Student ID. Your student ID should be your: `firstname.lastname`, please be sure to enter this information EXACTLY as instructed.

Click **Save** and **OK**.

Congratulations! You have completed registration and have enrolled in your instructor’s MasteringChemistry course. To access your course from now on, simply go to [www.masteringchemistry.com](http://www.masteringchemistry.com), enter your Login Name and Password, and click **Log In**. If your instructor has created assignments, you can access them by clicking on the **Assignments** button. Otherwise, click on **Study Area** to access self-study material.

### Support

Access Customer Support at [www.masteringchemistry.com/support](http://www.masteringchemistry.com/support), where you will find system requirements, answers to frequently asked questions, and customer support contact information.

### Extra Credit Science Seminars

Extra credit for chemistry class with Dr. Lisa Struck: This semester you may earn a little extra credit by attending the Science Seminars held once a month (usually the 3<sup>rd</sup> Friday of each month) at 11:00 am until about noon on the Niceville campus in the Science Bldg. Room 110. When the speaker finishes the prepared presentation, the speaker will then usually answer questions from the audience. Please remain seated and quiet during the question and answer period.

You can earn 2 points for just attending (you need to sign my sign-in sheet before the talk). You can earn up to 5 points for attending and writing a summary of the talk (please also sign in.) The summary paper summarizes the information that you learned from the seminar. This written summary is due the following Friday (one week later). The paper needs to be at least one page single spaced, or two pages double spaced or longer using a normal font size and normal margins. Using multiple lines for name, title, etc., do not count toward the length requirement. You may turn this in on paper to me (deadline is 11am), or you may use the "Dropbox" on D2L (deadline is 1pm). These are the only two ways that you may turn this in. If you are more than 10 minutes late, you will not be allowed into the lecture hall. The noise from opening and closing the doors is a loud interruption of the speaker.

The first seminar you attend: the points will be applied to one Lab Report.

The second seminar you attend: the points will be applied to one Quiz.

The third seminar you attend: the points will be applied to one Test.

The fourth seminar you attend: the points will be applied to one Homework score.

The Fall 2016 Seminar Schedule is as follows:

August 26

September 23

October 21

November 18

\*\* All seminars will be on Friday mornings from 11am until noon in room S-110.

Hope that helps!