

CHM2051 — Honors General Chemistry II — Spring 2019

Credits: 3; Prereq: MAC 1147 or the equivalent, and a minimum score of 'B+' for CHM2045; Coreq: CHM 2046L.

The second semester of the CHM2045/2045L and CHM2051/2046L sequence. This course is open to students with superior performance in CHM2045 or its equivalent. Acids and bases, additional aspects of chemical equilibria, thermodynamics, electrochemistry, complex ions, descriptive chemistry and instructor-chosen topics. (P)

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| Instructor | Dr. Alexander Angerhofer (Dr. A) |
| Phone | 392 9489 (office, CLB318A), 392 0541 (office, LEI214A), or 392 2123 (lab, CLB303) |
| E-mail | alex@chem.ufl.edu |
| O.H. | T-11, W-8, R-6, and by appointment, JHH202. |

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| TAs | Kaylee Todd, (kmtodd8485@chem.ufl.edu), OH: T-3, W-3, R-3 in the CLC* and by appt |
| | Jackson Dillard (jacksondillard@ufl.edu), OH: M-4, W-5 in the CLC*. |
| | Nina Jones (ninatjones@ufl.edu), OH: M-7, W-7 in the CLC*. |
| | Sam Keiffer (samuelkeiffer@ufl.edu), OH: M-6, F-6 in the CLC*. |
| | Melanie Soto (soto.m@ufl.edu), OH: T-9, F-9 in the CLC*. |
| | Andrew Whigham (awhigham@ufl.edu), OH: tba |

*Chemistry Learning Center, 1st floor of JHH, room #105.

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| Class Meeting Times | TR4-5 periods, 10:40am–12:35am in Leigh Hall 207 |
| Holidays | 01/21 (MLK Day), 03/04–08 (Spring Break), 04/25–26 (Reading Days, no classes). |
| Class Text | M. Silberberg, "Chemistry: The Molecular Nature of Matter and Change With Advanced Topics," 8th Edition, McGraw-Hill, New York 2018, ISBN: 978-1259741098. The text is recommended. Any reasonably recent General Chemistry textbook should be fine for you to review and look up material. |
| Homework | Homework will be assigned weekly except during weeks of during-term exams. Homework will be graded. |
| Points Earnable | Best 3 out of 4 exams (3 during-term, 1 final) @ 250 pts. each, for 750 total pts. 10 homeworks @ 10pts each, for 100 total points. Daily in-class participation grade (learning catalytics) @ 100 points max. Team projects @ 50 points total. Total earnable points are 1000. |
| Grading Scheme ¹ | A: ≥ 850 points 849 pts. > A- ≥ 825 pts. 824 pts. > B+ ≥ 800 pts. 799 pts. > B ≥ 750 pts. 749 pts. > B- ≥ 725 pts. 724 pts. > C+ ≥ 700 pts. 699 pts. > C ≥ 650 pts. 649 pts. > C- ≥ 625 pts. 624 pts. > D+ ≥ 600 pts. 599 pts. > D- ≥ 550 pts. 549 pts. > E. |

¹ see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx> for more info on UF grade policies.

Course Schedule (tentative):

| Date | Day | Chap. | Topic | Reading |
|----------|-----|------------|--|--------------------|
| 01/08/19 | T | 17 | Disc. of Syllabus and beginning of chapter 17, Thermodynamics, Mass Action and Equilibrium Constants. | pp. 746 – 760 |
| 01/10/19 | R | 17 | Le Chatelier's principles, thermodynamic problems | pp. 760 – 782 |
| 01/15/19 | T | 18 | Acid/Base Equilibria, Acid/Base definitions, acid/base strength, autoionization of water, conjugate pairs. | pp. 792 – 808 |
| 01/17/19 | R | 18 | Weak acid/base equilibria, molecular properties and A/B strength, levelling effect, A/B problems. | pp. 808 – 823, 827 |
| 01/22/19 | T | 18 | Salts as acids/bases, Lewis A/B definition, A/B problems and graphing problems. | pp. 823 - 831 |
| 01/24/19 | R | 19 | Ionic Equilibria, A/B buffers, A/B titrations. | pp. 842 – 864 |
| 01/29/19 | T | 19 | Solubility Equilibria, | pp. 864 – 876 |
| 01/31/19 | R | 19 | Guest Lecture (Prof. Laurie Gower, Dept. of Mat. Sci. & Engn.), complex ions | pp. 877 – 883 |
| 02/05/19 | T | 19 | Jeopardy I, exam review | |
| 02/07/19 | R | 17–19 | Exam #1 | |
| 02/12/19 | T | | Atmospheric Chemistry, composition, upper atmosphere, ozone chemistry, CFCs and their implications. | ARM ² |
| 02/14/19 | R | | The greenhouse effect, CO ₂ and other greenhouse gases. | ARM ² |
| 02/19/19 | T | | Acid rain, NO _x and SO _x chemistry. | ARM ² |
| 02/21/19 | R | | Guest Lecture (Prof. Joseph Delfino, Dept. of Env. Engn.) | |
| 02/26/19 | T | 20 | Thermodynamics, 2 nd Law, entropy | pp. 894 – 916 |
| 02/28/19 | R | 20 | Work, Gibbs Free Energy, spontaneity, rxn direction, problems | pp. 916 – 933 |
| 03/12/19 | T | 21 | Electrochemistry, redox rxns, electrochemical cells, half-rxns, electrical work, standard cell potential. | pp. 938 – 959 |
| 03/14/19 | R | 21 | guest lecture (Prof. Mark Orazem, Dept. of Chem. Engn.) | |
| 03/19/19 | T | 21 | Equilibrium, Nernst equation, batteries, Corrosion, electrolysis, metallurgy, Jeopardy II | pp. 959 – 984 |
| 03/21/19 | R | 20–21 | Exam #2 | |
| 03/26/19 | T | 24 | Nuclear Chemistry, nuclear stability and decay, kinetics, radio-nuclear dating, | pp. 1072 – 1093 |
| 03/28/19 | R | 24 | Guest lecture (Prof. Assel Aitkalyeva, Dept. of Mat. Sci. & Engn.), applications of nuclear chemistry | pp. 1093 – 1111 |
| 04/02/19 | T | 15 | Preparation for organic chemistry, types of organic molecules, isomerism, chirality, problems | pp. 632 – 650 |
| 04/04/19 | R | 15 | Classes of organic rxns, functional groups, properties, reactivities, problems | pp. 651 – 667 |
| 04/09/19 | T | 15 | Polymers in technology and biology, guest lecture (Prof. Daniel Savin, UF Dept. of Chemistry) | pp. 668 – 681 |
| 04/11/19 | R | 23 | Transition Metal Chemistry, properties of TM's, coordination complexes, isomerism | pp. 1036 – 1054 |
| 04/16/19 | T | 23 | Crystal Field Theory, Ligand Field Theory, magnetism, guest lecture (Prof. George Christou, UF Dept. of Chemistry) | pp. 1055 – 1065 |
| 04/18/19 | R | 23 | Bioinorganic chemistry, Jeopardy III | ARM ² |
| 04/23/19 | T | 15, 23, 24 | Exam #3 | |
| 05/02/19 | R | | Comprehensive Final Exam (Optional) | |

2 ARM = additional reading material supplied by the instructor.

Office Hour and Class Schedule for CHM2051:

| SPRING 2019 | | UNIVERSITY OF FLORIDA | | | | | | | | | | SCHEDULE CARD | | | | | | | | | |
|-------------|---------------|--|-----------|-------------|-----------|--------------|-----------|-------------|-----------|----------|-----------|---------------------|--|--|--|--|--|--|--|--|--|
| | | NAME: CHM2051 (sections 115G, 4260, and 7201) meeting times and office hours | | | | | | | | | | | | | | | | | | | |
| | | Univ. Address: | | | | | | | | | | Univ. Phone: | | | | | | | | | |
| Per. | Hour | Monday | Bldg/Rm # | Tuesday | Bldg/Rm # | Wednesday | Bldg/Rm # | Thursday | Bldg/Rm # | Friday | Bldg/Rm # | | | | | | | | | | |
| 1 | 7:25-8:15 | | | | | | | | | | | | | | | | | | | | |
| 2 | 8:30-9:20 | | | | | | | | | | | | | | | | | | | | |
| 3 | 9:35-10:25 | | | OH (Kaylee) | CLC* | OH (Kaylee) | CLC* | OH (Kaylee) | CLC* | | | | | | | | | | | | |
| 4 | 10:40-11:30 | OH (Jackson) | CLC* | CHM2051 | LEI 207 | OH (Jackson) | CLC* | CHM2051 | LEI 207 | | | | | | | | | | | | |
| 5 | 11:45-12:35 p | | | CHM2051 | LEI 207 | OH (Jackson) | CLC* | CHM2051 | LEI 207 | | | | | | | | | | | | |
| 6 | 12:50-1:40 | OH (Sam) | CLC* | | | | | OH (Dr. A) | JHH 202 | OH (Sam) | CLC* | | | | | | | | | | |
| 7 | 1:55-2:45 | OH (Nina) | CLC* | | | OH (Nina) | CLC* | | | | | | | | | | | | | | |
| 8 | 3:00-3:50 | | | | | OH (Dr. A) | JHH 202 | | | | | | | | | | | | | | |
| 9 | 4:05-4:55 | | | OH (Mel) | CLC* | | | | | OH (Mel) | CLC* | | | | | | | | | | |
| 10 | 5:10-6:00 | | | | | | | | | | | | | | | | | | | | |
| 11 | 6:15-7:05 | | | OH (Dr. A) | JHH 202 | | | | | | | | | | | | | | | | |
| E-1 | 7:20-8:10 | | | | | | | | | | | | | | | | | | | | |
| E-2 | 8:20-9:10 | | | | | | | | | | | | | | | | | | | | |
| E-3 | 9:20-10:10 | | | | | | | | | | | | | | | | | | | | |
| | | Comments: *CLC: The Chemistry Learning Center in JHH105 | | | | | | | | | | | | | | | | | | | |

Further Important Information:

- 1. Overview and Goals:** CHM2051 is the second in a double course series introducing the student to General Chemistry. The goals of the course are to give an overview of basic chemistry, specifically thermodynamics, equilibrium phenomena such as acid/base and solubility equilibria, electrochemistry, and a brief introduction into organic and inorganic chemistry. The course allows the instructor to enrich the curriculum with additional topics of current interest. The course is designed to prepare the student for subsequent work (Organic Chemistry I).
- 2. Class Meeting Times:** The class meets in LEI207, TR4-5 periods. Since we have double periods the meeting times will be organized as follows. We will start 5 minutes late, 10:45am and we will end class 5 minutes early, 1:50pm. The ten minutes lost will be recovered by reducing the break time between the 4th and 5th periods from 15 to 5 minutes. The 5-minute break will be taken whenever the flow of the lecture allows, *i.e.*, may not be exactly in the middle of a two-period session.
- 3. Honors:** The three sections, 115G, 4260, and 7201, of this course are for students who performed at a high level in CHM2045, demonstrated by a minimum of a 'B+' grade by the end of the fall 2018 term. The course is organized around a smaller classroom environment more conducive to an interactive teaching style. While we will cover the same topics as CHM2046, often to a deeper level we will spend a little more time discussing topics that are important to real life applications of chemistry. That means that less time will be allotted to drills. Students are expected to spend significant amounts of time outside the classroom to work on problem solving skills. Homework sets will contain long-response problems that focus on understanding the material and students are encouraged to form study groups to work together on these problem sets. Our class will use the 'Learning Catalytics' app for in-class participation while the main CHM2046 sections will use the 'tophat' app. Please do not purchase the tophat app unless you need it for some other course.
- 4. General Chemistry Learning Objectives:** The course will provide instruction in the basic concepts, theories, and fundamental terms of chemistry. At the very core of chemistry is the concept of the atom, its structure, including its nuclear make-up, and chemical bonding with other atoms. Understanding the atom provides a conceptual foundation for the many aspects of 'macroscopic' chemistry which will be the focus of this course such as thermodynamics, and equilibrium phenomena. CHM2051 leaves space for topics to enrich the chemistry curriculum and we will use this to discuss atmospheric chemistry with its many challenges and opportunities. Given that CHM2051 serves as preparation for higher level chemistry courses a brief introduction to organic chemistry and inorganic chemistry will be given as well. The key to success in this course is understanding the material rather than memorizing it. Major scientific developments will be reviewed and their impacts on society, science, and the environment examined. With what they learn students will be able to: (1) formulate empirically testable hypotheses relevant to the study of physical and life processes, (2) use logical reasoning skills through scientific criticism and argument, and (3) apply techniques of discovery and critical thinking to predict and evaluate outcomes of experiments. Upon successful completion of CHM2051 each student will:
 - have a working knowledge of the basic concepts, theories, and fundamental terms of Chemistry that are outlined under 1), and understand the relevant processes that govern chemical systems,
 - grasp the major scientific developments that have led to the current state-of-the-art in the field,
 - be able to assess impacts Chemistry has on society, science, and the environment,
 - be familiar with and capable of using the scientific method when discussing scientific facts as they relate to Chemistry,
 - know how to formulate empirically testable hypotheses derived from the study of physical and chemical processes,
 - use logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to predict and evaluate outcomes of experiments. To achieve these objectives students are required to participate in all class activities, specifically:
 - Regular attendance of lectures in which the course material will be discussed and demonstrated. This is essential for success in the course. Lecture attendance requires active participation on the students' part. Large sections of class time will be spent in scientific dialog between teacher and students where we will practice the art of scientific reasoning.
 - Weekly graded homework assignments typically include nine conceptual and numerical problems that require the student to apply the learned concepts to specific examples. Problems are taken from different areas of experimental and theoretical chemistry including physical and life processes. Homework problems may also include reading material, typically a topically related original research article requiring the student to summarize and comment on in their own words.
 - Three mid-term exams will be administered throughout the semester. These exams will be worked-out long-response exams, not multiple choice. Emphasis is placed on testing the students' reasoning skills and their understanding of the material rather than rote memorization

of facts. On their exams, students will receive all pertinent equations.

- Participation points are available to students throughout the semester and can be earned during the lectures by answering ‘learning catalytics’ questions (for more information see below item #10). Additional points will be earned by participating in team exercises, *i.e.*, preparing and competing in three jeopardy-style games in preparation for the three during-term exams.
 - Approximately 10 weekly office hours are offered by instructor and TAs, conveniently spread out over the whole week. Students are strongly encouraged to seek help and feedback on all concepts and problems encountered in class. While office hour attendance is completely voluntary, it is an important activity that will help solidify students' understanding of the material and make them successful in the course.
5. **Math Requirements:** Students are expected to have a solid grasp of pre-calculus algebra and trigonometry and need to show credit for MAC1147 on their transcripts. During lectures, concepts from Calculus may be briefly discussed but will not appear on exams. When derivatives or integrals are mentioned the focus is primarily on their graphical interpretation to aid understanding of chemical or physical concepts. When homework problems require their use, feel free to employ computational solvers such as Wolfram Alpha: <http://www.wolframalpha.com/>.
 6. **Exam Policies:** Three during-term exams will be given (see schedule above). These exams will be given during class periods. Exam duration will be approximately 100 minutes. The final exam is cumulative and counts the same as a during term exam. It is optional since the lowest-scoring out of the four exams is dropped. For exams you must use a non-graphing non-programmable scientific calculator with log, ln, root, and exponent (scientific notation) functions. Be sure to also bring pencils, section number, and your UF ID card. No notes, papers, cell phones or other electronic devices can be in view during exams. No makeup (“do over”) progress exams will be given for any reason. If you must be absent for an exam due to a documented and approved academic or UF athletic conflict, bring the documentation to your instructor at least *one week prior* to the scheduled exam and an early conflict exam will be scheduled for you. If you are absent for an exam due to an unpredicted documented medical reason, you must contact the instructor as soon as possible and you have to get your excuse verified by the Dean of Student's Office. Your missed exam score will then be replaced by the average of your other during-term exams when calculating your final grade. More information regarding this policy can be found in the *General Chemistry Exam Absence Policy* document found on the Chemistry Department web site: <https://www.chem.ufl.edu/wp-content/uploads/sites/38/2017/05/GenChemExamAbsencePolicy-05-05-2017.pdf>.
 7. **Canvas:** Access your Canvas e-learning account by clicking on the ‘Log-In to E-Learning’ link on the web site, <http://lss.at.ufl.edu/> where you will have to supply your Gatorlink credentials to log in. Please, do this at your earliest convenience and make yourself familiar. Canvas will be primarily used by TAs and the instructor to communicate with the class. Please make sure to monitor the announcements on a regular basis. There may occasionally be assignments on Canvas that need to be completed before class. If you experience technical problems when using Canvas, *e.g.*, during an online practice quiz, please contact the UFIT helpdesk (<http://helpdesk.ufl.edu/>, 352-392-4357 M-F from 8:00am till 5:00pm, email helpdesk@ufl.edu, or go to: <http://helpdesk.ufl.edu/e-learning-support/>).
 8. **Homework (HW):** Ten HW assignments will be given over the course of the semester. They will normally be published on Canvas by Thursday afternoon and are due on the following Thursday at the beginning of class. Late HW policy: HW is late if it is not delivered at the beginning of the class period. Each day late will incur a 20% deduction of the total points value. Do your HW! By doing HW problems you will collect essential points toward your grade and will be better prepared to deal with problems on exams. HW problems come from many different sources, including the instructor's own personal list of problems. Since these will be the hardest problems you will encounter in CHM2051, you may form study groups with other students to work on them. However, simply copying someone else’s work is plagiarism and will be treated as such!
 9. **Participation Grade:** Participation points (up to 100 points or 10% of your total grade) will be earned through active participation in class with ‘learning catalytics.’ This is primarily done by using the app on your digital device (smartphone, tablet, notebook PC, *etc.*) to respond to questions asked by the instructor throughout the lectures (see further explanation below under #10).
 10. **LearningCatalytics (LC):** In this course, we will use LC for your digital device to respond to the instructor's questions and earn valuable points toward your grade. You will need to purchase access and create a student account on <https://learningcatalytics.com/>. Follow instructions on that web site, or in the registration document on your Canvas account (click on Files → LC → Get_Started_Flyer_Learning_Catalytics.pdf) to activate your account and link it to our course, CHM2051. When registering make sure to use your full first and last name with correct spelling including capitalization. This is important to correctly link your LC gradebook entry to your course grades on Canvas. Do not register twice! If you have trouble logging in, get in touch with Pearson’s help desk online at <https://support.pearson.com/getsupport/s/contactsupport>. The cost for LC is \$12 for the semester. You are required to bring at least one wifi-enabled digital device to class to use for this

activity. If you don't have access to a digital device, please contact the instructor.

11. **Team Projects:** The students in the class will be divided into six teams, and each of these teams will participate in one of three “Jeopardy” or “Who Wants to be a Millionaire” games. For each of these games, two groups will be responsible for coming up with the questions while two other groups compete. The members of each team will receive points for their participation in these debates and games ($2 \times 25 = 50$ points). The “Jeopardy” games will be a valuable tool for exam preparation and the two teams who are not directly involved are strongly encouraged to attend and take note of the problems in preparation for the upcoming during-term-exam.
12. **Extra Credit Quizzes:** Unannounced extra credit quizzes (over and above the 1000 points in the course) will be given randomly in the course and will be used to encourage you to keep up with the course material and to obtain an indication of your attendance at lecture. Keys will be posted on E-Learning.
13. **Calculators:** You must have your own scientific calculator. Calculators may be used on homework and exams but may not be shared. You may **not** use graphing calculators or any calculators that are capable of communication on any exam. Simple inexpensive scientific calculators such as the TI-30 series or the Casio fx-260 are acceptable and sufficient for any problem encountered on exams.
14. **Class Attendance:** Regular attendance is essential for your success in this class. However, we will not do roll-calls. Repeated absence in class and discussion session will make it very difficult to earn full participation points. For further information on UF's attendance policies which are in effect for this course, see: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx> .
15. **Study Habits:** The course demands on average 10 – 12 hours/week of work outside of class. The class will not be taught 'by the book.' It is expected that you read the assigned pages from the textbook (or corresponding chapters in comparable textbooks) in advance before coming to class. The instructor will build on this material and you are expected to be able to follow in-class discussion. The course demands a regular sustained effort throughout the semester. Most importantly, **do not allow yourself to fall behind!** The material builds up and you need to stay ahead of the game. If you find that you are not grasping essential material by reading the textbook and following in-class discussion, **seek help!** Visit your instructor's and/or TA's office hours, talk to other students in your class, compare notes, form a study group, consult other text books, go to the CLC (Chemistry Learning Center) in Joseph Hernandez Hall 105, *etc.*
16. **Study Groups:** It is highly encouraged to form study groups (within or beyond the Jeopardy teams) and meet with them on a weekly basis to discuss course material and to prepare for exams. In this course it is permissible that you work on HW assignments together with your study partners. However, you are responsible to fully understand your own worked-out HW submissions and may not just copy someone else's.
17. **Office Hours:** The instructor, two undergraduate TAs, and one graduate student TA offer a total of 10 office hours spread over the whole week. The detailed times and locations are listed on the first page of this syllabus and the table on the fourth page. This is time we set aside for you. Take advantage of it! Please note that the instructor and all TAs are available to help students in any of the three sections. You are not limited to only the TA assigned to your team. Moreover, the CLC (Chemistry Learning Center in JHH 105) is staffed with General Chemistry TAs (from other sections and the CHM2046 courses) throughout the week between periods 2 and 10 and you will be able to get help with your General Chemistry questions from all of them.
18. **Online Course Evaluation:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester. Announcements will be made to students about the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.
19. **Students with Disabilities:** Students requiring special accommodations should register with the Dean of Students Office (<http://www.dso.ufl.edu/>, 352-392-1261) and the Disability Resource Center (DRC, <https://www.dso.ufl.edu/drc>, 352-392-8565, email: accessUF@dso.ufl.edu), and present documentation from that office to the instructor.
20. **Counseling Services:** The University of Florida provides counseling services for students, staff, and faculty. See <http://www.counseling.ufl.edu/cwc/>. If you or a friend are in distress, call (352) 392-1575 (available 24/7), email umatter@ufl.edu, or walk in for an emergency consultation during regular service hours (8:00am – 5:00pm) at the Radio Road Site, 3190 Radio Rd., or the Peabody Hall Site, on the 4th floor of Peabody Hall, adjacent to Criser Hall. For other hours or weekends, call the Alachua County Crisis Center, (352) 264-6789. For sexual assault recovery services call the Student Health Care Center at (352) 392-1161. For life-threatening emergencies always call 911.
21. **Emergency Numbers and Web Sites:**
 - UFPD (UF Police Department): In case of emergency dial 911. The UF campus police non-emergency number is (352) 392-1111. Their web site: <http://www.police.ufl.edu/>,
 - UF Emergency management: (352) 273-2100. <https://emergency.ufl.edu/>,
 - Infirmary (student health center): (352) 392-1161, <http://shcc.ufl.edu/>.

- EH&S (Environmental Health & Safety): (352) 392-1591, <http://www.ehs.ufl.edu/>.
22. **Other Academic Resources:** UF provides several other resources for students, such as
- Library Support can be obtained here: <http://cms.uflib.ufl.edu/ask>, where you can find various ways to receive assistance with respect to using the libraries or finding resources.
 - The Career Resource Center is located on level One in the Reitz Union, (352) 392-1601, and provides career assistance and counseling. Refer to <http://www.crc.ufl.edu/> for further info.
 - The Teaching Center is located in Broward Hall, main phone (352) 392-2010 or appointment phone (352) 392-6420, and provides students with tutoring services and counseling regarding general study skills. Refer to <http://teachingcenter.ufl.edu/> for further info. It may also provide employment opportunities as tutors for well qualified students.
 - The Writing Studio is located at 302, Tigert Hall, (352) 846-1138, and provides help with brainstorming, formatting, and writing papers, see: <https://writing.ufl.edu/writing-studio/>.
 - The Ombuds Office is located at 31 Tigert Hall, (352) 392-1308, and provides students assistance in resolving problems and conflicts that arise in the course of interacting with the University of Florida. By considering problems in an unbiased way, the Ombuds works to achieve a fair resolution and works to protect the rights of all parties involved. For further information go to <http://www.ombuds.ufl.edu/> or refer to the official complaints policy here: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.
23. **Cell Phone Etiquette:** Please put all cell phones or other electronic devices on “**silent mode**” during all class and discussion periods. Please do not leave the classroom during lecture to make a phone call. Use your cellphone only for ‘learning catalytics’ activities while class is in session. Thank you!
24. **Facebook Page:** One of the undergraduate TAs has set up a group-me group for the course. Participation through reading and posting is voluntary but will enhance the class community. Please note that this page is not monitored by the instructor. It is administered by the TAs. Keep your comments civilized.
25. **Honor Code:** This class will operate under the policies of the student honor code which can be found at: <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>. The students, instructor, and TAs are honor-bound to comply with the Honors Pledge: **We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.** You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment."* It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks. Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>.
26. **Disclaimer:** This syllabus represents my current plans and objectives. If those need to change as the semester progresses, then the changes will be communicated to the class clearly and the syllabus will be updated.

I am looking forward to spending the semester with you and introducing you to some of the fundamentals of modern chemistry. If you have further questions, please contact me. Have a great semester!

Sincerely,

Alexander Angerhofer
(Dr. A)