CHEM 402-1 Syllabus

Spring 2022

Francis Marion University

Department of Chemistry

**Lecture:** T/Th 9:55 - 11:10 AM, LSF 304

\*Mask or face coverings are required for all in-person interactions\*

**Instructor:** Dr. Briana Aguila

Office: LSF 303F

Phone Number: 661-1447

Email: briana.aguila@fmarion.edu

**Office Hours:** Tuesday 11:30 AM – 1:30 PM; Wednesday 10:00 AM – 12:00 PM

In Office or Zoom: Meeting ID: 935 5454 5410

Passcode: 478763

<https://fmarion-edu.zoom.us/j/93554545410?pwd=NEhhTFM5S3cwMEorMGxjSDhTYit6Zz09>

**Prerequisite:** CHEM 301 or Permission of Chemistry Department

**Required Text:** This course will be utilizing Open Educational Resources (OER) provided free of charge with materials available on Blackboard.

**Suggested Texts:** The following texts are not required but could be useful as supplemental study materials.

1. Inorganic Chemistry, 5 ed. Miessler, Fischer, and Tarr

ISBN: 978-0-321-81105-9

1. Inorganic Chemistry, 4 ed. Housecroft and Sharpe

ISBN: 978-0-273-74275-3

**Course Goals and Learning Topics:** The goal of this course is to gain mastery of the concepts of inorganic chemistry by methods that promote problem solving and critical thinking. The major topics covered to attain this will be as follows:

1. Atomic Structure and Periodic Properties
2. Simple Bonding Theory
3. Molecular Symmetry and Group Theory
4. Molecular Orbital Theory
5. Acid-Base Chemistry
6. Solid-State Chemistry
7. The Main Group Elements
8. Coordination Chemistry
9. Organometallic Chemistry
10. Special Topics

**Important Dates:**

Jan 11, 2022 **First Day of Classes**

March 4, 2022 **Last Day to Withdraw** **Without Penalty**

March 14-18, 2022 **Spring Break**

April 13, 2022 **Last Day to Withdraw**

April 25, 2022 **Last Day of Classes**

Apr 28, 2022, 3:00 – 5:00 PM **Final Exam**

**Grading:**

Participation 5%

Assigned Readings 10%

Literature Assignments 10%

Problem Sets 20%

Topic Quizzes 25%

Midterm Exam 15%

Cumulative ACS Final Exam 15%

90-100 A 80-89 B 70-79 C

60-69 D < 60 F

**Class Attendance:** It is your responsibility to attend all class meetings. You are responsible for obtaining notes, handouts, or announcements missed due to absence. **Missing more than 4 days of a Tues/Thurs class (equivalent to 2 weeks) will result in being dropped from the course with a failing grade.**

**Academic Dishonesty:** All forms of academic dishonesty, including, but not limited to, cheating on exams, plagiarism, and/or falsification of information will be subject to disciplinary action. If a student has committed an act of cheating or plagiarism, they will receive a zero for their work. The Provost’s Office will be notified in writing of the violation. Additional penalties may be imposed by the Provost’s Office. I reserve the right to impose additional penalties, including recommending dismissal from the university, for the most grievous infractions.

Cheating is defined to include, but not limited to, the following:

1. Copying another student’s work or test
2. Using unauthorized materials during a test
3. Collaborating with another during a test or on assignments
4. Knowingly abating, using, buying, selling, transporting, or soliciting in whole or in part contents of a test or other work

Plagiarism is defined as the appropriation of any other person’s work and the unacknowledged incorporation of that work in one’s own work offered for credit.

Falsification of information is defined to include, but not limited to the following:

1. Forgery, alteration, or misuse of college documents, records, or identification
2. Destruction of evidence with the intent to deny its presentation to the appropriate hearing or panel

Please refer to your Student Handbook for campus policies regarding Academic Integrity.

**Other Policies**: Disruptive behaviors such as talking in class, sleeping, arriving late, or leaving early from lecture will not be tolerated. Silence your cell phone before you enter the classroom (**including texting function**). Such conduct may result in the student being dismissed from the class and counted absent for that day.

**Disability Accommodations:** If you have a disability that qualifies you for academic accommodations, please provide a letter of verification from the Office of Counseling and Testing. If you would like to use your accommodations, please contact me as soon as possible. Accommodations will be provided at the discretion of your instructor.

**Note:** This syllabus is a tentative guide for the class and is subject to change by your instructor. If any change is made, you will normally be notified during class or through online announcements/emails.