

SYLLABUS CHM 345 Spring 2016

Intermediate Biochemistry

Instructor: Dr. Leslie Meadows Frost 464 Science email: frost@marshall.edu

Office Hours: Official office hours will be MW 9-10; T 9-11

As long as I am in my office or lab, feel free to enter and ask questions at any time.

The best way to contact me is by email (not phone).

Course Description: Introduction to the basic principles of Analytical Chemistry including traditional wet methods and contemporary instrumental methods of chemical analysis.

Course Objectives:

1. To learn how to analyze results through statistical methods.
2. To learn chemical equilibrium, titrations, and basic knowledge of electrochemistry.
3. To develop wet laboratory techniques essential for high precision experimentation.
4. To acquire the ability to operate advanced instrumentation and to interpret results through modern theory.

Course Prerequisites: CHM 212 and 218 (Minimum Grade of C)

Attendance Policy: Attendance for this class is not mandatory. Absences from quizzes, exams and laboratories can only be made-up if you obtain a University approved absence. All excused absences must be obtained as soon as possible, so that we can make arrangements to make-up the missed work.

Textbook: Quantitative Chemical Analysis, 8th edition, by Daniel C. Harris

Course Policies:

1. Homework and lab reports will not be accepted after their due dates.
2. Graphing calculators, calculators with alphanumeric programming, and calculators on cell phones, PDAs, etc. cannot be used during quizzes/exams. Likewise, sharing of calculators during quizzes/exams is prohibited.
3. During quizzes/exams, all materials necessary will be provided to you except a pencil and calculator. You may NOT use your own paper, etc.
4. Students with disabilities who require special accommodations will be made. www.marshall.edu/disabled.
5. Academic dishonesty will be dealt with as outlined in the undergraduate catalog.

Course Content: All course content including lecture notes and laboratory handouts will be posted on muonline. I will send out reminders on Monday of each week about which lecture notes that we will discuss and laboratory experiments that we will conduct that week. You will probably want to bring copies of the lecture notes to class to keep you focused during the lectures.

Grading Scale:

90-100%	A	Quizzes	40%
80-89%	B	Labs	40%
70-79%	C	Final Exam	20%
60-69%	D		
Below 60%	F		

Quizzes: Quizzes will be given every Tuesday at the end of lecture/beginning of lab. Each quiz will cover material from the previous week's lectures and lab. Your overall average on these quizzes will count for 40% of your grade.

Homework:

Each student is to prepare for each class by reading the material covered in the previous class, answering the relevant problems at the end of each chapter, and previewing the material to anticipate the next class lecture. Additional homework problems and readings will be posted on muonline. All homework is for practice only and will not be graded.

Labs: S-492, Tuesday & Thursday 1:30-3:15 pm

1. ACS Academic Lab Safety Guide:
http://portal.acs.org/portal/PublicWebSite/about/governance/committees/chemicalsafety/publications/WPCP_012294
2. Lab Requirements: Lab goggles and a bound laboratory notebook
3. Lab Handouts: Laboratory experimental procedures will be posted on muonline. You will be responsible for reading the material and doing all the assigned work prior to coming to lab each week. I will send out emails each Monday reminding you what material will be covered each week.
4. Lab reports will generally be due one week after completing the lab. Lab reports turned in late will receive a -10% grade deduction for each day the report is late. Each laboratory experiment will explicitly state what needs to be turned in as the lab report for that experiment.
5. I have posted on muonline a basic lab guide that will explain how to keep a lab notebook and how to write a complete laboratory report.

Suggested Activities for Success:

1. Read the suggested material from the textbook before and after each lecture.
2. Try to work through every homework problem assigned no matter how difficult.
3. Always attend class and take good notes.
4. Seek help from others, some possibilities:
 - a. Take advantage of office hours.
 - b. Work in small groups on studying for quizzes and the final.

University Policies:

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802

Miscellaneous Topics

- **Academic Dishonesty:** Marshall University's academic honest policy (<http://www.marshall.edu/academicaffairs/Academic%20Dishonesty%20Policy.pdf>) will be enforced. Any student caught cheating in this course will receive 0 points on that assignment or exam.
- **"Policy for Students with Disabilities:** Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271."
- You will not be allowed to use any graphing calculators for the exams. Use of cell phones during the exam will result in a 0 on that given exam.
- If a test falls on a day that is cancelled by the university (e.g. a snow day), the test will occur on the next period the class meets.
- Please turn off cell phone ringers before class. Failure to do so may result in you being removed from the room, even during a test.
- You may not record my lectures without my permission and under no circumstances may they be posted, transferred, or reproduced to any form of media (Internet, print, television, and the like) without my permission.