

APPENDIX TO THE SYLLABUS

ENZYMOLOGY (Spring 2020) Chem 4630, Chem 6630, Biol 4630, Biol 6630

This Appendix to the Syllabus is intended to cover the period from March 30th to the end of the Semester. It contains the final lecture schedule and important changes to the original syllabus that were required to accommodate the new situation posed by COVID-19.

COVID-19 update: For the purpose of social distancing, classes were cancelled from March 14th – March 29th. Classes will resume online starting March 30th until the end of the semester. All remaining enzymology lectures will be hosted live on Webex at the usual class time (MW 5:30-6:45 pm). A link that can be used to join will be emailed to all students prior to each lecture. This will provide all students the opportunity to attend the lecture live and interact/ask questions. The online lectures will also be recorded and be made available to students on iCollege.

Instructor: Dr. Giovanni Gadda, ggadda@gsu.edu

Lecture: MW 5:30-6:45 pm. Lecture notes will be posted online in iCollege prior to the scheduled lecture time. Lectures will be hosted live on WebEx to provide students the opportunity to attend the lecture live and interact/ask questions. The online lectures will also be recorded and be made available to students on iCollege.

Office Hours: MW, 6:45 – 7:45 pm (through WebEx/iCollege, with priority when appointment is requested by email). These sessions are public and open to all students who want to attend.

Please send e-mail ahead of time to schedule an appointment at these hours. Students are required to have their lecture notes.

Course Requirements: Students are encouraged to attend all class sessions.

Graduate students: 3 take-home exams + in-class definitions (100 pts each; total 300 pts)
1 lecture presentation (100 pts)
2 written critiques will be counted (50 pts each; total 100 pts)
Total pts. 500

Undergraduate students: 3 take-home exams + in-class definitions (100 pts each; total 300 pts)
2 written critiques will be counted (50 pts each; total 100 pts)
Total pts. 400

Take-home problem sets: Problem sets must be turned in (uploaded onto iCollege) at the beginning of class on the dates they are due in.

Lecture presentations:

1. Students, working in groups of two, will prepare a lecture presentation of a peer-reviewed journal article chosen from a pool suggested by the instructor.
2. Each group will prepare 15 PowerPoint slides and write up the narrative of the lecture presentation in a Word document. The narrative will contain clear references to the corresponding slides.
3. Each slide must have the name of the student presenting it.
4. The PowerPoint and Word files will be uploaded onto iCollege by the students before 5:30 PM on the day before the scheduled date for the presentation.
5. Each lecture presentation should consist of the following elements:
 - a. background and introduction to the article to be presented (2 slides)
 - b. discussion of the techniques employed in the study (1 slide)
 - c. discussion of the results obtained and overall conclusions (2 slides)
 - d. a detailed lecture on a technique of choice used in the study (10 slides)
6. It is the students' responsibility to ensure an equal workload in the lecture presentation.
7. Presenting students will be available on WebEx during scheduled class time for Q&A with other students and the instructor(s).
8. Class participation in term of intelligent questions on the topics covered in the student lecture presentations will be rewarded with extra credit points.

Written critiques: Students will write a 1-2 pages critique of the article presented in class using the *Bioscience* article as a guide. The written critiques will be uploaded on iCollege by each student before the beginning of class (5:30 PM on the scheduled day). Up to 4 written critiques will be turned in for grading (2 will be counted for the final grading).

Important Note:

Failure to turn in any assignment on time (take-home problem sets, written critiques, or any other extra assignment) will result in a 5% penalty of the grade for each day of delay.

All students, irrespective of whether they present, are responsible for reading and preparing to discuss each article presented during the semester.

Coursework and Grading:

The grading will be based on the following criteria:

- a) Accuracy of answer and reasoning
- b) Adequacy of answer and/or presentation and/or written critique, i.e., reasoning for basis of answer must be clear
- c) All results must be presented with proper units, e.g., time, concentration, etc.
- d) Discussion participation, e.g., points/issues raised, questions, answers, etc.

Projected Grading Scale: A+: 95%, A: 90%, A-: 87%, B+: 84%, B: 80%, B-: 77%, C+: 74%, C: 70%, C-: 67%, D: 60%, F: <60%

Cheating:

A student who cheats on an assignment **will receive a zero** for that assignment. The Department of Chemistry follows the University Policy on Academic Honesty published in the "Faculty Affairs Handbook" and the "On Campus: The Undergraduate Co-Curricular Affairs Handbook." Any suspected offenses will be referred to the Dean of Students for appropriate action. All tests taken must represent your individual, unaided efforts. To receive or offer information during an examination is cheating. The use of unauthorized supplementary materials during tests is also cheating.

FINAL LECTURE SCHEDULE FROM March 30 to April 27

This schedule is a general guide and might be modified as needed

Date	#	Topics	Action
Mar 30	18	Rapid reaction kinetics	Pool of papers to choose for lecture presentation available on iCollege from 7:00 PM
Apr 1	19	Isotopic probes of kinetic mechanism	
Apr 3			5:00 PM – deadline to choose the paper and group (# 1/8) for the student lecture presentation
Apr 6	20	Isotope effects as a probe of mechanism	Schedule for written critiques and student lecture presentations available on iCollege
Apr 8	21	pH Dependence of kinetic parameters and isotope effects (1)	
Apr 13	22	pH Dependence of kinetic parameters and isotope effects (2)	Take home Exam 3 distributed (covers lectures 1-25) No in-class definition part in Exam 3
Apr 14			Lecture presentation (PowerPoint and Word files) for Groups 1&2 posted in iCollege by 5:30 PM
Apr 15	23	Lecture presentation (Groups 1&2)	Written critique #1 uploaded onto iCollege before class starts
Apr 19			Lecture presentation (PowerPoint and Word files) for Groups 3&4 posted in iCollege by 5:30 PM
Apr 20	24	Lecture presentation (Groups 3&4)	Written critique #2 uploaded onto iCollege before class starts
Apr 21			Lecture presentation (PowerPoint and Word files) for Groups 5&6 posted in iCollege by 5:30 PM
Apr 22	25	Lecture presentation (Groups 5&6)	Written critique #3 uploaded onto iCollege before class starts
Apr 26			Lecture presentation (PowerPoint and Word files) for Groups 7&8 posted in iCollege by 5:30 PM
Apr 27	26	Lecture presentation (Groups 7&8)	Written critique #4 uploaded onto iCollege before class starts Take home Exam 3 uploaded onto iCollege before class starts