Chemistry 305 Fall Semester 2015 Course Guidelines

Instructor: Daniel Graham, Flanner Hall Room 401 (office and voice-mail, 773 508-3169); Loyola Chemistry Office: 773 508-3100; Loyola Chemistry FAX: 773 508-3086; DG email: dgraha1@luc.edu

Office Hours: M, W 1130 – 1300 or by arrangement.

Class Hours: M, W, F 0815 – 0905, Cuneo Hall 109.

Discussion: M, 0920 – 1010, Cuneo Hall 109


Chemistry 305 is entitled Physical Biochemistry. As such, the semester will focus on biochemical applications of quantum mechanics, thermodynamics, and chemical kinetics. The topics will include:

Quantum Principles and the Nature of Light
Thermodynamic Properties and Laws
Phase Behavior
Kinetic Principles and Reaction Rate Laws

Exams:

There will be three in-class exams during the semester. There will also be a two-hour final exam on the second Monday of finals week. Each exam will consist of questions and problems representative of the textbook and lectures. All calculations will be entered in a standard blue book provided by the instructor. A calculator, periodic table, and a single page of notes (normal paper, both sides OK) may be used during each exam.

The single page of notes must be included with the blue book prior to hand-in. Blue books must be signed on the front, upper right-hand corner. Each signature will be taken as a statement of honest, independent work. Instances of academic dishonesty will warrant immediate failure of the course plus referral to the Arts and Sciences Dean’s office. Please review the College’s policy on academic integrity via the Loyola University website.

Exams will be graded and returned as soon as possible. All grading questions, points of clarification, and grading errors must be brought to the instructor’s attention during office hours no later than one week after return of the exam.

If special provisions are needed for the exams and other aspects of Chemistry 305, please consult DG during the first week.

Assignment of Grades:

The following scale will be used: 87% - 100% A-, A; 72% - 86% B-, B, B+; 59% - 71% C-, C, C+; 50% - 58% D, D+; < 50% F. Grades will be assigned by weighting the in-class exams 0.55, problem sets 0.10, and the final exam 0.35, with account given to
improvement during the semester.

An aim of the grading policy is to allow time and incentive for improvement. Physical chemistry is like other subjects in that it is not easy to learn. However, the process is rewarding if the necessary effort is made to master fundamentals as they appear. Please contact DG to discuss problems before they become serious.

Assignments: Assigned problems will be featured throughout the semester based on the readings, lectures, and discussions. Students are urged to work as many problems as possible with the help of each other and DG.

Quizzes: Quizzes will be included in the discussion hours. Best-effort discussion work will warrant one point applied to the up-coming exam.

Sakai Materials: There will be multiple postings on Sakai during the semester: lecture notes, assignments, discussion work, last year’s exams, etc. All postings will appear in the Resources Section of the Chemistry 305 Lecture website. Please check the site every day or two for the latest postings. Errors should be brought to DG’s attention as soon as possible.

Schedule:

The typical week will feature Monday, Wednesday, and Friday lectures starting at 0815. Monday morning discussions will include Q & A plus a quiz.

M 082415 First Class Meeting. We will begin with Part One of Roussel
M 090715 Labor Day Holiday ☺♫
F 092515 Exam I
M 100515 Fall Break Holiday ☺♫
F 102315 Exam II
F 112015 Exam III
W 112515 Thanksgiving Break Holiday ☺♫
Th 112615 The TGB Holiday ☺♫!!
F 112715 Still Another Holiday ☺♫
F 120415 i-dotting and t-crossing
Th 121015 Final Exam at 0900 – 1100 in Cuneo 109.

Next Bus Stop: Chemistry 306 ☺♫