Syllabus

Instructor: Professor Richard S. Magliozzo (rmaglioz@brooklyn.cuny.edu; 718-951-5000 X2845)
Office Hours: Rm. 3148N; hour before class and by appointment

Course Goals and Learning Objectives. The goal of this course is to provide students with an introduction to the chemistry of metabolism in prokaryotes and eukaryotes and the enzymes that catalyze metabolic reactions and their regulation and control.


Course Materials: Lecture notes will be posted in Course Documents on the Blackboard site for the course.

Examination Dates (tentative) Exam 1: Thursday February 24th; Exam 2: Thursday, March 31; Exam 3 during Finals week: TBA

Important dates: you are responsible for checking the college Academic Calendar for key dates and for any changes/ here
http://www.brooklyn.cuny.edu/web/about/administration/enrollment/registrar/bulletins/spring22/calendar.php

- Tuesday, February 8 – Conversion Day
  Classes follow a FRIDAY schedule

- Friday, February 11 – Lincoln’s Birthday Observed
  College Closed, No Classes Scheduled

- Tues, May 17 – Tuesday Meetings Shifted Due to Above
  14th Tuesday Class Meetings

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<tbody>
<tr>
<td>February 8</td>
<td>Tuesday</td>
<td>Conversion Day – Classes follow Friday schedule</td>
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<tr>
<td>April 15–22</td>
<td>Friday</td>
<td>Spring Recess – No classes scheduled</td>
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<td>May 17</td>
<td>Tuesday</td>
<td>Last day to drop a course with a grade of W</td>
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<td>May 18–24</td>
<td>Wednesday–Tuesday</td>
<td>Final Examinations</td>
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Class meets weekly 5:05pm – 7:35pm in 1127N starting Thursday, February 3 - May 12.

**Lecture Schedule/Topics:** (subject to change as the course progresses)

Metabolism: Basic Logic and Design; Introduction to Metabolomics. Chapter 12(Mathews)/15(Stryer). Glycogen Metabolism Chapter 13(M)/21(S). Glycolysis Chapter 13(M)/16(S). Pentose Phosphate Pathway Chapter 13(M)/20(S). Gluconeogenesis: Chapter 13(M)/16(S). Citric Acid and Glyoxylate Cycles: Chapter 14(M)/17(S). Oxidative Phosphorylation: Chapter 15(M)/18(S). Photosynthetic Electron Transport and Phosphorylation: Chapter 16(M)/19(S). Fatty Acid Metabolism: Chapter 17(M)/22(S). Membrane Lipids & Cholesterol Metabolism: Chapter 19 (pp.794-803)(M) /Chapter 26 (S)(pp. 767-788).

**Grade Breakdown:** Grades will be based on the average of three (non-cumulative) lecture examinations. Exams will be based on lecture material and may have true/false, multiple-choice and matching column-type questions, to test your factual knowledge and understanding of concepts. Additionally, case studies may be used and may also provide the basis for examination questions. Letter grades for the course are determined using a curve if required. The class average (typically 65-70%) usually establishes a “C” grade.

Please note that there are NO makeup exams. Unjustified absences will be assigned a grade of zero (0). For justified absences (e.g. unavoidable issues; official documentation is required) the first or second lecture exam score will count as the missed lecture exam grade. You will not receive a grade for the course if you miss two lecture exams or the final exam. No “extra-credit projects” will be assigned nor accepted.

**INC Grades:** If you must miss the final lecture examination due to a documented emergency, you MUST notify me within 24-hours of the final examination if you wish to receive an INC grade. This assumes that all other course requirements have been satisfied and that you are intending to take a makeup final examination. Please do not let the INC age into an FIN by planning to take a make-up exam.

**Religious accommodations:** Please let me know if there are certain dates on which you cannot fulfill course requirements in the regular schedule.