
Topics:
- Intro to Metabolism, Chapter 10
- Glycolysis, Chapter 11
- Citric Acid Cycle, Chapter 13
- Oxidative Phosphorylation, Chapter 14
- Gluconeogenesis, Glycogen metabolism, Pentose Phosphate, Chapter 12
- Photosynthesis, Chapter 15
- Lipid Metabolism, Chapter 16
- Nitrogen/Amino Acid Metabolism/Urea Cycle, Chapter 17
- Nucleotide Biochemistry, Chapter 18

Course Goals:
- To illustrate the chemical logic inherent in metabolism
- To compare and contrast the types of organic reactions that facilitate the breakdown and building of biological molecules
- To evaluate how errors in metabolism lead to human disease
- To recognize how metabolic pathways are regulated

Grading:
- Four Exams worth 16% each
- Tentative Dates subject to change
  - Friday, September 18
  - Monday, October 12
  - Wednesday, November 11
  - Monday, November 30
- Homework assignments are worth 10%; these are due the class prior to an exam
- Final Exam worth 26%, Friday December 11, 12:00-3:00

Grades will be assigned according to the following MINIMUM scale

<table>
<thead>
<tr>
<th>Letter</th>
<th>%</th>
<th>GP</th>
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<tbody>
<tr>
<td>A</td>
<td>93-100</td>
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<tr>
<td>A-</td>
<td>90-92</td>
<td>3.7</td>
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<tr>
<td>B+</td>
<td>87-89</td>
<td>3.3</td>
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<tr>
<td>B</td>
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<td>80-82</td>
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<td>77-79</td>
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<tr>
<td>C</td>
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<tr>
<td>D</td>
<td>63-66</td>
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Final Exam
Friday, December 11, This is a cumulative final for material in 352 only.

Homework:
There will be several homework assignments. The assignments will include end-of-
chapter questions, literature assignments, and computer assignments. A homework
assignment will be due the lecture period prior to each test. Late homework is penalized.
The maximum grade you can receive on homework that is handed in late is the lowest
score of the assignments that were passed in on time. You are allowed to discuss the
homework with one another, but you are to write out the answers/calculations in your
own words. Identically worded homework assignments are an indication of cheating (see
below). Answers to the homework will be available for viewing in the main office.

Homework is to be typed, with the exception of mechanisms or calculations, which can
be neatly printed. Homework answers are to be presented in numerical order.
Homework pages should be stapled together. At this point in your chemistry careers, I
expect you to be familiar with the superscript and subscript commands in your word
processing program (for example, type H₂O, not H2O). A small portion of your
homework grade will be on neatness and presentation.

Attendance:
Attendance at lectures is usually proportional to your grade. Some of the material
covered in this course cannot be found in your book. We will not be following the order
of the book. You will probably be confused as to what to focus on if you miss class. If
you choose to miss lecture, find another student in the class who will share their notes
with you. You are responsible for obtaining the material and assignments you missed. I
will not give you a private makeup lecture in my office. Attendance at exams is
mandatory. There are NO makeup exams. Exam dates are announced in advance. If you
have an excused absence from the Dean of Undergraduate Studies for missing an exam
for health reasons or for a family emergency, then you will be graded on your remaining
scores. Missing more than one exam will be interpreted as excessive absence and you
will be dropped from the class roster.

Academic Dishonesty:
Cheating will not be tolerated in this course. The following description of cheating is
from the student handbook:

“the actual giving or receiving of unauthorized, dishonest assistance that might give one
student an unfair advantage over another in the performance of any assigned, graded
academic work, inside or outside of the classroom, and by any means whatsoever,
including but not limited to fraud, duress, deception, theft, talking, making signs,
gestures, copying, electronic messaging, photography, unauthorized reuse of previously
graded work, and unauthorized use or possession of study aids, memoranda, books, data,
or other information. The term cheating includes engaging in any behavior specifically
prohibited by a faculty member in the course syllabus or class discussion.”

For this course, entering formulas into a calculator to be used during an exam will be
considered as an act of premeditated cheating. Homework assignments that appear to be
prepared as a joint effort will receive a joint grade (i.e. the points earned will be divided
by two). The physical act of preparing your homework for submission should be done on
your own.

Disabilities: If there is a student in this class who has a documented disability and has
been approved to receive accommodations through SNAP Services, please feel free to come and discuss this with me during my office hours.