

Four ways to get to this page on the Bio 241 course website!

1. Go to <http://kibak.com>
2. Click on [Bio 241](#)
3. Click on [Bio 241 Daily Coursework Outline](#)

1. Google "kibak"
2. Click on the top listing. Should be "henrik kibak's university website."
3. Click on picture above "Teaching"
4. Click on image above Bio 241
5. Click on [Bio 241 Daily Coursework Outline](#)

1. Go to CSUMB home page
2. Click on "Current Students" tab
3. Click on "[Course Schedule and Availability](#)"
4. Click on "[Spring 2008](#)"
5. Click on "[BIO](#)"
6. Click on "[Bio 241](#)"
7. Under click on "[BIO241-01: Cellular and Molecular Biology](#)"
8. Click on the word "[here](#)"
9. Click on [Bio 241 Daily Coursework Outline](#)

http://science.csumb.edu/~hkibak/241_web/

CSU Monterey Bay - Bio 241 - Introduction to Cell & Molecular Biology

To succeed in this course follow the steps below listed in order of importance:

1. Take careful notes in class, especially of the drawings.
2. Using your textbook to confirm that the professor did not make a mistake, recopy your lecture notes carefully the evening of the class.
3. Go over the key figures in the text (listed below). Make sure you understand each figure well enough to reproduce it on an exam.
4. Prepare vocabulary cards for the words listed below prior to the lecture and make sure you know them. A subset of 30 word matching definitions will appear on each exam.
5. Review the recommended multimedia.
6. Try to answer the questions listed below as though they were a homework assignment. Compare your answers with other students. Versions of these questions may appear on exams.
7. On the weekend, recopy your recopied notes, but this time reduce them to one page!
8. 48 hours before the exam, try to summarize each one-page note on a 3x5 card.
9. Cram like hell by reviewing your vocab cards and summary cards.
10. For the 2nd, 3rd, and 4th exams, review the exams you have already taken.

Chapter 2

Vocabulary: 36 words

acid-base reaction
amino group
carbonyl group
carboxyl group
chemical energy
chemical equilibrium
compound
covalent bond
electron

element
endergonic reaction
endothermic reaction
entropy
Gibbs free-energy change
exergonic reaction
exothermic reaction
functional group
hydrogen bond

hydroxyl group
ionic bond
kinetic energy
molecular weight
molecule
nonpolar
organic molecule
oxidized atom
pH

phosphate group
polar
potential energy
product
proton
reactant
redox reaction
reduced atom
sulfhydryl group

Key Figures: 2.6ex**2.8**, **2.10**, 2.11, **2.12ex**, 2.16, 2.18, 2.19, 2.20ex**2.21ex**, 2.25, 2.26, 2.27(error), Table 2.1
memorize functional groups

Key Media:

Page 44 Content Review: #1-6

Page 45 Conceptual Review: #1, 2, & 6

Page 45 Group Discussion Problems: #2

Chapter 3

Vocabulary: 47 words

2nd Lecture

alpha helix	hydrophilic
amino acid	hydrophobic
amino acid sequence	macromolecule
beta sheet	molecular chaperones
condensation reaction	monomer
C-terminus	N-terminus
dehydration reaction	oligopeptide
denatured protein	peptide bond
dimer	polymer
disulfide bonds	polymerization
hydrolysis	polypeptide

3rd Lecture

primary structure	activation energy
protein	active site
protein backbone	adenosine diphosphate
protein folding	adenosine monophosphate
protein subunit	adenosine triphosphate
quaternary structure	allosteric regulation
R-group	catalysis
secondary structure	coenzyme
side chain	competitive inhibition
tertiary structure	enzyme
van der Waals interactions	enzyme cofactor
	enzyme substrate
	phosphorylation
	transition state

Key Figures: **3.4**, **3.5ex**, 3.7, 3.8, **3.9**, **3.10**, **3.11ex**, 3.12, 3.13, 3.14, **3.15**, 3.17, **Table 3.1**, **Table 3.2 (mis.)**

Key Figures continued: 3.19, 3.20, **3.21**, 3.22, 3.23, 3.24, 3.25, 3.26, 3.27, **3.28**, Table 3.3

Check Your Understanding: p. 56, p. 62

Key Media:


Page 72 Content Review: #1-6

Page 73 Conceptual Review: #2, 3, 4, & 6

Reading: Box 3.1, Section 3.2 "Amino Acids and Polymerization," Section 3.3 "What Do Proteins Look Like?" Section 3.3 "What Do Proteins Do?"

[Protein Folding and Sleep MP3](#) 15 minute segment of RadioLab podcast. The rest of [these 1-hr podcasts](#) fascinating animal biology, but not directly related to our chapter.

IF YOU ARE ACCESSING MEDIA FROM OFF-CAMPUS!



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- [Home Server Updates Due To Security Concerns](#)
- [Home Server Frequently Asked Questions](#)

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