

BC367

BC367 - Biochemistry of the Cell I

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Weekly class assignments

Laboratory

Colby Chemistry COVID-19 Policy

BC367 syllabus

BC367 message board

Examinations

Kevin's Calendar

BC367 Learning Goals

1. To learn the fundamental chemistry and biochemistry of major classes of biomolecules, including amino acids and proteins, sugars and polysaccharides, nucleotides and nucleic acids, and lipids.
 2. To understand how chemical reactivity, thermodynamics, and kinetics are responsible for life.
 3. To sharpen problem-solving skills of both a qualitative and quantitative nature and to solve problems that involve the integration and synthesis of new knowledge.
 4. To enhance written and oral communication skills and build confidence in oral expression in a group setting.
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Approximate Lecture and Discussion Schedule

Week of:	Probable topic:	Textbook chapter(s):	Discussion materials:
8/26	Living matter / aqueous chemistry	1, 2	Problem Set #1 Buffer video can be found here
8/31	Amino acids	3	Problem Set #2
9/7	Peptides and proteins	3-4	Problem Set #3 BLAST Home Page
9/14	Protein structure	3-4	(no problem set this week)
9/21	Protein dynamics	5	Problem Set #4
9/28	Enzymes and enzyme kinetics	6	Problem Set #5
10/5	Enzyme inhibition	6	(no problem set this week)
10/14	Enzyme mechanisms	6	Problem Set #6
10/19	Sugars, polysaccharides, and glycobiology	7	Problem Set #7
10/26	Nucleotides and nucleic acid structure	8	(no problem set this week)
11/2	Nucleic acid chemistry and function	8	(no problem set this week)
11/9	DNA technology and lipid chemistry	9-10	Problem Set #8

11/16	Storage and structural lipids	10	Problem Set #9
11/23	Lipid biology	10	(no problem set this week)

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