

LIFE 210 SCHEDULE: FALL 2018

Questions **Surveys** are due at **6 PM** and **Quizzes** are due at **2 PM** Mountain Time on the due date.

Week (Dates)	Module #: Module Name	Lectures	Assignments Due	Due Dates
1 (Aug. 20 – Aug. 24)	1: Course Introduction/overview: Key Concepts Introduction to Cancer Anticancer Drug Development	L1 – L3	Module 1 Questions Survey Module 1 Quiz	Sun, Aug 26 Mon, Aug 27
2 (Aug. 27 – Aug. 31)	2: Cellular Composition: Macromolecules – Chemistry, Bioenergetics, Water and intermolecular interactions	L4 – L6	Module 2 Questions Survey Module 2 Quiz	Tues, Sept 4 Wed, Sept 5
3 (Sept. 4 – Sept. 7)	3: Labor Day – no class Free Energy Puff Balls Thermodynamics in class learning activity Proteins: Composition and Structure	L7 – L8	Δ G LA Pre-Homework Δ G LA Post-Homework Module 3 Questions Survey Module 3 Quiz	Wed, Sept 5 Mon, Sept 10 Sun, Sept 9 Mon, Sept 10
4 (Sept. 10 – Sept. 14)	4: Proteins: Composition and Structure Protein structure Learning Activity	L9 – L10	WTL Assignment 1 Prompts 1-3 Protein LA Pre-Homework Protein LA Post-Homework	Mon, Sept 10 Wed, Sept 12 Mon, Sept 17
Sept. 14	Exam 1 – Modules 1-3, Lectures 1-8		Exam 1	Fri, Sept 14
5 (Sept. 17 – Sept. 21)	5: Proteins: Function as Catalysts Transmembrane Transport in Cancer Membrane Composition and Assembly	L11 – L13	WTL Assignment 1 Peer Feedback Module 4&5 Questions Survey Module 4&5 Quiz	Mon, Sept 17 Sun, Sept 23 Mon, Sept 24
6 (Sept. 24 – Sept. 28)	6: Membrane Composition and Assembly Transmembrane Diffusion and Transport	L14 – L16	WTL Assignment 1 Essay Module 6 Questions Survey Module 6 Quiz	Mon, Sept 24 Sun, Sept 30 Mon, Oct 1
7 (Oct. 1 – Oct. 5)	7: Transmembrane Diffusion and Transport Transmembrane Transport Learning Activity Protein Trafficking Changes in Cancer Cells	L17 – L18	Transport LA Pre-Homework Transport LA Post-Homework	Mon, Oct 1 Wed, Oct 3
Oct. 5	Exam 2 – Modules 4-6, Lectures 9-16		Exam 2	Fri, Oct 5
8 (Oct. 8 – Oct. 12)	8: Cell Compartmentalization Protein Trafficking in the Cell Nuclear-Cytoplasmic Trafficking	L19 – L21	Module 7&8 Questions Survey Module 7&8 Quiz	Sun, Oct 14 Mon, Oct 15

9 (Oct. 15 – Oct. 19)	9: Nuclear-Cytoplasmic Trafficking Learning Activity Metabolic Changes in Cancer Cells Overview of Cell Metabolism	L22 – L24	WTL Assignment 2 Prompts 1-3 N-C LA Pre-Homework N-C LA Post-Homework Module 9 Questions Survey Module 9 Quiz	Mon, Oct 15 Mon, Oct 15 Wed, Oct 17 Sun, Oct 21 Mon, Oct 22
10 (Oct. 22 – Oct. 26)	10: Overview of Cell Metabolism Learning Activity Cell Signaling Changes in Cancer Cells	L25 – L26	WTL Assignment 2 Peer Feedback Metabolism LA Pre-Homework Metabolism LA Post-Homework	Mon, Oct 22 Mon, Oct 22 Wed, Oct 24
Oct 26	Exam 3 – Modules 7-9, Lectures 17-24		Exam 3	Fri, Oct 26
11 (Oct. 29 – Nov. 2)	11: Principles of Cell Signaling G Protein Receptor Signaling Enzyme Linked Receptor Signaling, Cross-talk, etc.	L27 – L29	WTL Assignment 2 Essay Module 10&11 Questions Survey Module 10&11 Quiz	Mon, Oct 29 Sun, Nov 4 Mon, Nov 5
12 (Nov. 5 – Nov. 9)	12: Cell Mobility in Cancer Cells Molecular Dynamics of the Cytoskeleton Regulation of Cytoskeletal Dynamics	L30 – L32	Module 12 Questions Survey Module 12 Quiz	Sun, Nov 11 Mon, Nov 12
13 (Nov. 12 – Nov. 16)	13: Regulation of Cytoskeletal Dynamics	L33 – L34	Cell Crawling LA pre-Homework Cell Crawling LA post-Homework	Wed, Nov 14 Mon, Nov 26
Nov. 16	Exam 4 – Modules 10-12, Lectures 25-32		Exam 4	Fri, Nov 16
Nov. 19- Nov. 23	Fall Break		None	
14 (Nov. 26 – Nov. 30)	14: Cell Cycle and Growth Control in Cancer Cells Cell Cycle Overview Cell Cycle Control and Regulation	L35 – L37	WTL Assignment 3 Prompts 1-3 Module 13&14 Questions Survey Module 13&14 Quiz	Mon, Nov 26 Sun, Dec 2 Mon, Dec 3
15 (Dec. 3 – Dec. 7)	15: Programmed Cell Death and Replicative Senescence Summary of Changes in Cancer Cells Eukaryotic Cell Biology Summary and Review	L38 – L40	WTL Assignment 3 Peer Feedback Cell Cycle LA pre-Homework Cell Cycle LA post-Homework Module 15 Questions Survey Module 15 Quiz	Mon, Dec 3 Mon, Dec 3 Wed, Dec 5 Sun, Dec 9 Mon, Dec 10
16 (Dec. 10 – Dec. 14)	Exam 5 – Modules 13-15, Lectures 33-40		WTL Assignment 3 Essay Exam 5	Mon, Dec 10 Thurs, Dec 13 7:30 - 9:30 AM