PCB 3023C CELL BIOLOGY – CRN 10702/10703 – SPRING 2016 COURSE SCHEDULE – RHODES

Session	Date	Day	Topic	Reading	Labs
1	Jan 6	W	Cells: The Fundamental Units of Life	Ch. 1	Introduction to Lab / Lab Notebook Workshop
2	11	M	Chemical Components of Cells	Ch. 2	Introduction to Cell Culture / Equipment and Supplies
3	13	W	Protein Structure and Function	Ch. 4	Sterile Technique / Pipetting
	18	**M**	MLK Holiday – NO CLASS		
4	20	W	Membrane Structure	Ch. 11	Intentional Contamination Experiment
5	25	M	Transport Across Cell Membranes	Ch. 12	Contamination Results / Media Preparation / Seed cells
6	27	W	Intracellular Compartments and Protein Transport	Ch. 15	Microscopy / Confluency / Subculture
7	Feb 1	M	Cytoskeleton	Ch. 17	Subculture / Viability Cell Count / Seed for Osmolality
8	3	W	Endomembrane System and the Cytoskeleton	Ch. 15/17	Osmolality / Subculture
9	**8**	**M**	**EXAM 1**		Subculture / Plate for Cell Compartment Staining
10	10	W	Energy, Catalysis, and Biosynthesis	Ch. 3	Cell Compartment Staining / Subculture / Plate for Wound Healing
11	15	M	How Cells Obtain Energy from Food	Ch. 13	Wound Healing Assay – wounding / Subculture
12	17	W	Energy Generation in Mitochondria…	Ch. 14	Wound Healing Assay – measurements / Subculture
13	22	M	Energy Generation in Mitochondria…	Ch. 14	Cryopreservation / Subculture
14	24	W	… and Chloroplast	Ch. 14	Subculture / Plating for Transfection
15	29	M	… and Chloroplast	Ch. 14	Transfection
16	**Mar 2**	**W**	**EXAM 2**		Transfection - fluorescence results
	7	M	Spring Break – NO CLASS		
	9	W	Spring Break – NO CLASS		
17	14	M	DNA and Chromosomes; Replication and Repair	Ch. 5, 6	Seed cells
18	16	W	DNA Replication and Repair	Ch. 6	Subculture / Plate for Cytoskeleton Staining
19	21	M	From DNA to Protein – Transcription	Ch. 7	Cytoskeleton Staining / Subculture / Plate for Endocytosis
20	23	W	From DNA to Protein – Translation	Ch. 7	Endocytosis / Subculture / Plate for Colony Assay
21	28	M	Control of Gene Expression	Ch. 8	Colony Assay – staining and quantitation
22	**30**	**W**	**EXAM 3**		
23	April 4	M	Cell Signaling	Ch. 16	Self-directed Experiments
24	6	W	Cell Signaling	Ch. 16	Self-directed Experiments
25	11	M	The Cell-Division Cycle	Ch. 18	Self-directed Experiments
26	13	W	The Cell-Division Cycle	Ch. 18	Self-directed Experiments
27	18	M	Cell Communities: Tissues, Stem Cells, Cancer	Ch. 20	Self-directed Experiments
28	20	W	Cell Communities: Tissues, Stem Cells, Cancer	Ch. 20	Self-directed Experiments
29	**25**	**M**	**EXAM 4**		**Cell Culture Project - DUE**
					Tuesday Mar 22 – is the last day to drop without academic penalty

This schedule is subject to change. Students will be notified of changes as soon as possible.