Micro526: PHYSIOLOGY OF MICROORGANISMS

Date	Day	Lecture	Topic
Jan 21	W	1	Course Overview, Begin discussion of energy
Jan 23	F	2	Membrane Bioenergetics
Jan 26	M	3	Electron Transport Chains I
Jan 28	W	4	Electron Transport Chains II
Jan 30	F	5	Coupling the ETC to ATP
Feb 2	M	6	Phototrophy I
Feb 4	W	7	Phototrophy II
Feb 6	F	8	Fermentation I
Feb 9	M	9	Fermentation II
Feb 11	W	10	Electron Bifurcation I
Feb 13	F	11	Electron Bifurcation II
Feb 16	M	REVIEW	**EXAM #1 (lecture topics 1-11)**
Feb 18	W	12	Introduction to metabolism
Feb 20	F	13	EMP pathway, Gluconeogenesis
Feb 23	M	14	Entner-Douderoff Pathway
Feb 25	W	15	Pentose Phosphate Pathway
Feb 27	F	16	Acetyl-CoA formation
Mar 2	M	17	Tricarboxylic Acid Cycle I
Mar 4	W	18	Tricarboxylic Acid Cycle II
Mar 6	F	19	Glyoxylate Shunt/Anaplerosis
Mar 9	M	20	Controlling metabolic flux I
Mar 11	W	21	Controlling metabolic flux II
Mar 13	F	22	Nitrogen/Sulfur Assimilation
Mar 16	M	REVIEW	**Exam #2 (lecture topics 12-22)**
Mar 18	W	23	Nitrogen Cycle I
Mar 20	F	24	Nitrogen Cycle II
Mar 23	M	25	Sulfur Cycle I
Mar 25	W	26	Sulfur Cycle II

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Date	Day	Lecture	Topic
Mar 27	F	27	Metal Respiration
March 28-April 5	**SPRING BREAK**		
Apr 6	M	27	Acetogenesis
Apr 8	W	28	Methanogenesis
Apr 10	F	29	Synthrophy I
Apr 13	M	30	Syntrophy II
Apr 15	W	31	Methylotrophs
Apr 17	F	32	Anaerobic methane oxidation
Apr 20	M	REVIEW	**Exam #3 (lecture topics 23-32)**
Apr 22	W	33	Fatty Acid Biosynthesis
Apr 24	F	33	Natural Product Biosynthesis
Apr 27	M	34	Phospholipid/Cell Wall Biosyn.
Apr 29	W	35	Protein Translocation
May 1	F	36	Flagella Assembly and Chemotaxis
May 4	M	37	Transporters
May 6	W	38	Cell-Cell Communication
May 8	F	39	Special Topic
May 15 2:45-4:45pm	**Friday**	**Final Exam**	**Lecture topics 33-39**