COURSE SYLLABUS BIOL 4418/6418 MICROBIAL PHYSIOLOGY SPRING SEMESTER 2012 PROFESSOR DICHRISTINA

Scheduled Time and Room: TR 3:05-4:25 PM, EST Building, room L1118

Recommended Textbook: Brock Biology of Microorganisms [© 2009, 12th ed., Madigan et al.]

Required Class Material: Course Packet [will be handed out prior to each class]

Office hours: MWF 3:00 – 6:00 PM or by appointment [ES&T Building, room 1240]

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<u>DATE</u> January	10 12 17 19 24 26 31	LECTURE Intro & Taxonomy: Traditional Taxonomy: Molecular Cell Structure Motility & Chemotaxis Lipid Vesicle & Cell Wall Microbial Genomics Energy Generation	PAGES (12 th Edition) 1-65, 367-397 367-397, 652-674 66-94 95-106, 235-236 66-94 343-366 107-132
February	2	ATPase: Structure & Function	107-132
	7	Exam review	
	9	Exam No. 1	
	14	Photophosphorylation	578-590
	16	Oxidative Phosphorylation I	641-651
	21	Oxidative Phosphorylation II	641-651
	23	Nitrogen Cycle	624-626, 602-604, 700
	28	Iron Cycle	599, 636, 703
March	1	Sulfur Cycle	596-598, 627-629, 701
	6	Carbon Cycle	631-644, 694-698
	8	TBA	
	13	Exam review	
	15	Exam No. 2	
	20	No Class - Spring Break	
	22	No Class - Spring Break	400 400
	27	Transport & Glycolysis	122-132
A muil	29	TCA & Fermentation P-P Shunt & Carbon fixation	122-132, 612-623
April	3 5	Iron Assimilation	646-650, 591-594
	10	Nitrogen Assimilation	109-110, 824-825 604-610
	10	Nitrogen Assimilation	604-610
	17	Sulfur Assimilation	109, 627-628
	19	Phosphorous Assimilation	76, 232
	24	Signal Transduction	225-241
	26	Exam review	
May	3 (11:30 AM)	Final Exam	
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GRADING SYSTEM:	Exam	Value
	No. 1	30%
	No. 2	30%
	Final [Cumulative]	<u>40%</u>
	TOTAL	100 %

Note: Absence from exams requires written excuse from Medical Doctor (personal illness or family emergency).