

COURSE SYLLABUS
BIOL 4418/6418 MICROBIAL PHYSIOLOGY
SPRING SEMESTER 2013
PROFESSOR DICHRESTINA

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>	<u>LECTURE</u>	<u>PAGES (12th Edition)</u>
January	8	Introduction
	10	Taxonomy
	15	Cell Structure
	17	Motility & Chemotaxis
	22	Lipid Vesicle & Cell Wall
	24	Microbial Genomics
	29	Energy Generation
	31	TBA
February	5	ATPase: Structure & Function
	7	Exam review
	12	Exam No. 1
	14	Photophosphorylation
	19	Oxidative Phosphorylation I
	21	Oxidative Phosphorylation II
	26	Nitrogen Cycle
	28	Iron Cycle
March	5	Sulfur Cycle
	7	Carbon Cycle
	12	Exam review
	14	Exam No. 2
	19	No Class - Spring Break
	21	No Class - Spring Break
	26	Transport & Glycolysis
	28	TCA & Fermentation
April	2	P-P Shunt & Carbon fixation
	4	Iron Assimilation
	9	Nitrogen Assimilation
	11	Nitrogen Assimilation
	16	Sulfur Assimilation
	18	Phosphorous Assimilation
	23	Signal Transduction
	25	Exam review
	30 (11:30 AM)	Final Exam

GRADING SYSTEM:	<u>Exam</u>	<u>Value</u>
	No. 1	30%
	No. 2	30%
	<u>Final [Cumulative]</u>	<u>40%</u>
	TOTAL	100%

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