

COURSE SYLLABUS
BIOL 4418/6418 MICROBIAL PHYSIOLOGY
SPRING SEMESTER 2007
PROFESSOR DICHRESTINA

Scheduled Time and Room: TR 12:05-1:25 PM, ES&T Building, room L1205

Recommended Textbook: *Brock Biology of Microorganisms* [© 2006, 11th ed., Madigan et al.]

Required Class Material: Course Packet (to 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</u>
January	9	Intro & Taxonomy Traditional	1-37
	11	Taxonomy: Molecular	300-330
	16	Cell Structure	56-65, 136-164
	18	Flagella & Motility	91-97
	23	Chemotaxis	97-101
	25	Lipid Vesicle	43-54
	30	Cell Envelope	82-90
February	1	Microbial Genomics	479-501
	6	ATPase: Structure & Function	125-126
	8	Photophosphorylation	531-547
	13	Exam No. 1	---
	15	Oxidative Phosphorylation I	102-112
	20	Oxidative Phosphorylation II	112-124
	22	Nitrogen Cycle	555-559, 640-641
	27	Iron Cycle	553-554, 568-570, 644-648
March 1		Sulfur Cycle	548-552, 560-562, 642-644
	6	Carbon Cycle	564-565, 632-639
	8	Glycolysis	118-120
	13	Exam No. 2	---
	15	TCA Cycle	127-129
	20	No Class - Spring Break	---
	22	No Class - Spring Break	---
	27	Fermentation	571-576
	29	Pentose-Phosphate Shunt	583-584
	April	3	Carbon Fixation
5		TBA	
10		Iron Assimilation	102-104
12		Nitrogen Assimilation	586-593
17		TBA	
19		Sulfur Assimilation	560-562
24		Phosphorous Assimilation	72-73
26		Signal Transduction	224-226
May	1 (8:00 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).