Course Syllabus: BIOL 4450/6450: Spring 2014

Theory and Practice of Scanning Electron Microscopy CRN 21966 and 21990; MW 1:00 – 1:50 p.m. (BC 1202), MW 2:00 – 3:50 p.m. (BC 1075)

Instructor: Dr. Russ G6536HG-2014 2

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BIOL 3200 and 3250 or consent of the instructor (for 6450 : admission into the graduate program).
General principles of scanning electron microscopy operation and theory with comparison to light and TEM optics in
a laboratory intensive environment. Topics includ4.3(vi)7(n)4 (tics.8()]T)3.7(n)4t e5m02r/.7(u)4(vi)pr1.7(p.3(d4.artics.8())9(n)

approximately 1/3 of the lecture material but each exam is comprehensive and can ask questions from any

the class on April 30, 2014 during the lecture period. A paper copy containing a Title, Abstract, and References section will be required for hand-in at this time also.

Attendance: Students who miss class (lecture or laboratory) will lose points toward their final grade. Don't miss class.

Grading: The final grades will be based on a percentage of your cumulative points relative to the total points possible: Guaranteed grade distribution is as follows (Max. pts = 650 for BIOL 4450; 750 for BIOL 6450):

A = 90-100%	Points available: BIOL 4450 :		Points available: BIOL 64	<u> 150</u> :
B = 80-89%	Lecture Exams:	300 pts	Lecture Exams:	300 pts
C = 70-79%	Basic Check-Out:	50	Basic Check-Out:	50
D = 60-69%	Oral Proficiency Exam:	100	Oral Proficiency Exam:	100
$F = \le 59\%$	Lab Image Portfolio:	200	Lab Image Portfolio:	200
	Total:	650 pts	Research Proposal	25
			Research Presentation:	75 pts
			Total:	750 pts

Tentative EXAM SCHEDULE:

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Tentative Lecture and Laboratory Schedule:

		Lecture:		<u>Laboratory:</u>
Week	Date:	Topic:	<u>Day</u>	<u>Exercise</u>

Introduction and history of microscopy Biological

1. 13 Jan.