## Cell Biology & Genetics (BI-102) Fall '08 (section 003)

Professor:	Charles S. Tritt, Ph.D. (tritt@msoe.edu)	
Office:	S-355C	
Phones:	277-7421 (office), 262/512-9158 (home), 277-7465 (fax)	
Lecture:	Tu, Th & F 12:00-12:50 in S-358	
Lab:	Tu 1:00 to 3:50 in S-255	
Office Hours:	Tu, W & Th 10:00 to 11:00 and Th 1:00 to 3:00 in S-355C. Possibly Th	
	11:00 to noon in the RWJ cafeteria. Other times by appointment.	
Course Web Page:	http://myweb.msoe.edu/~tritt/bi102	
Textbook:	Biology, 8 <sup>th</sup> ed. (Volume 1), Raven, Johnson, Losos, Mason and Singer.	
	McGraw-Hill 2008 (Website: http://highered.mcgraw-	
	hill.com/classware/infoCenter.do?isbn=0072965819)	
Course Policies:	http://myweb.msoe.edu/~tritt/policies.html	

## Tentative Lecture Schedule

Week	Topic (reading assignment)
1	Introduction to Course and Biology (Handouts and Chap. 1)
	Introduction to Biology, continued
	Review of Basic Chemistry (Chap. 2)
2	Introduction to Biochemistry (Chap. 3)
	Introduction to Biochemistry, continued
	Cell Types and Structure (Chap. 4). Quiz 1
3	Cell Types and Structure, continued
	Biological Membranes (Chap. 5)
	Membranes, continued
4	Energy and Metabolism (Chap. 6)
	Energy and Metabolism, continued
	Harvesting Energy (Chap. 7). Quiz 2
5	Harvesting Energy, continued
	Cell Communication (Chap. 9)
	How Cells Divide (Chap. 10).
	Cell Division, continued
6	Sexual Reproduction and Meiosis (Chap. 11)
	Meiosis, continued. Quiz 3
7	Patterns of Inheritance (Chap. 12)
	Inheritance, continued
	Chromosomes & Inheritance (Chap. 13)

8	DNA: Genetic Material (Chap. 14)
	DNA, continued.
	Genes and How They Work (Chap. 15). Quiz 4
9	Genes, continued
	Control of Gene Expression (Chap. 16)
	Control of Expression, continued
10	Biotechnology (Chap. 17)
	Genomics (Chap. 18). Quiz 5
	Cellular Mechanisms of Development (Chap. 19).

Tentative Laboratory Schedule

Week	Topic
1	Introductory Lab (science, experimental design, lab notebooks, etc.)
2	Introductory Lab (continued)
3	Enzyme Lab
4	Enzyme Lab (continued)
5	Microscopes and Observation
6	Microscopes and Observation (continued)
7	Fly Lab
8	Fly Lab (continued)
9	DNA Lab
10	DNA Lab (continued)

Biweekly quizzes and the final will be closed book, closed notes.

Final: Friday, 11/21 (my birthday) from 8:00 to 10:00 in S-358.

Tentative Grade Weights:

Quizzes	35% (5 at 7% each)
Labs (includes notebook)	30%
Homework	4% (2 at 2% each)
Final	31%