

Supplement 1. Lecture and Laboratory Schedule – Spring 2007.

BIOL 313 Developmental Biology Lecture Schedule*				
	Dates	Topic	Resources	Activities/Other
1	2/6 2/8	Introduction Life Cycles & Developmental Patterns	G 1 (p1-19) G 2 (p25-30, 42-47)	Rules of Evidence I (p39-40)
2	2/13 2/15	Fertilization & Cleavage Early Development of Sea Urchins	G 7; G 8 (p211-229) S 1, S2, S4	OSF, HF readings assigned
3	2/20 2/22	Early Development of Sea Urchins Exam #1 (G1, 2, 7, 8)	G 8 (p223-229)	
4	2/27 3/1	Principles of Experimental Embryology The Great Debate	G 3 (p53-75) G 4 (p77-87)	Rules of Evidence II (pgs. 65-66) In-class debate
5	3/6 3/8	Cell-Cell Communication Cell-Cell Communication	G 6 G 6	
6	3/13 3/15	Early Development and Axis Formation in Amphibians (Frogs)	G 10, G6 as needed; S 6	
7	3/20 3/22	Early Development and Axis Formation in Amphibians (Frogs) Exam #2 (G3, 4, 6, 9, 10)	G 10, G6 as needed; S 6	survey
8	3/27 3/29	Drosophila Axis Development Drosophila Axis Development	G 9, G5 as needed	
9	4/3 4/5	SPRING BREAK		OSF Ch. 1-5 (readings completed by this date)
10	4/10 4/12	JC #1,2 (Environmental Toxicants) Early Development of Vertebrates, Birds	(zebrafish, rats) G 11(p336-348)	JC# 1,2
11	4/17 4/19	Early Development of Vertebrates, Birds and Mammals	G 11(p336-348), G 11 (p348-369)	
12	4/24 4/26	Exam #3 (G5, G9, G11, OSF) Ectoderm & Neural Crest	G 12 (p373-385), 13 (select)	
13	5/1 5/3	Ectoderm & Neural Crest Somitogenesis & Intermediate Mesoderm	G 12 (p373-385), 13 (select) G 14 (p443-453 and p460-469)	
14	5/8 5/10	Lateral Plate Mesoderm & Endoderm JC #3, 4 (Environmental Toxicants)	G 15 (p471-482) (human - lung, reproductive)	JC# 3,4
15	5/15 5/17	Developmental Toxicology Developmental Toxicology; focus gp	G 21 (p 666-675), G 22 (p 712-719)	HF Ch. 3 and 6 (readings completed by this date)
16	5/21- 5/25	Final Exam Week – Exam #4 (G11, 12, 13, 14, 15, 21, 22, HF, OSF) & optional comprehensive final		OSF 12-14 (readings completed by this date)

*Schedule is subject to change at instructor's discretion.

G – Gilbert's Developmental Biology, S - Schoenwolf

HF – Having Faith

OSF – Our Stolen Future

JC – journal club

BIO 313 Developmental Biology Laboratory Schedule [^]			
Date	Topic	Organism(s)	Resources
2/9#	Tool-making and Microscopy introduction ; focus group interview (distrib. survey); DYOE pretest		Vade Mecum (VM) ch.1-3
2/16	Sea Urchin Fertilization & Development <ul style="list-style-type: none"> o fertilization and observation <i>Lab Quiz</i>	Sea Urchin (demo & observation)	sea urchin module handout VM ch. 6, 7; Sch. ch. 4; Gilbert ch. 8
2/23	Sea Urchin Fertilization & Development II <ul style="list-style-type: none"> o design your own expt. (traditional or environmental)- proposal discussion* 	Sea urchin	sea urchin module handout VM ch. 6, 7; Sch. ch. 4; Gilbert ch. 8
3/2	Sea Urchin Fertilization & Development III <ul style="list-style-type: none"> o Set-up expt. o Record results 	Sea urchin	sea urchin module handout VM ch. 6, 7: Sch. ch. 4; Gilbert ch. 8
3/9	Sea Urchin Fertilization & Development IV <ul style="list-style-type: none"> o Set-up expt. o Record results 	Sea urchin	sea urchin module handout VM ch. 6, 7: Sch. ch. 4; Gilbert ch. 8
3/16	Drosophila Syncytial Development & Gene expression <ul style="list-style-type: none"> o observation of stained embryos <i>Lab Quiz; report on Sea urchin expts. due</i>	Drosophila	fly module handouts; Sch ch. ; VM ch.8; Gilbert ch. 9
3/23	Drosophila Syncytial Development & Gene expression <ul style="list-style-type: none"> o immunohistochemistry & fluorescence microscopy o design your own staining 	Drosophila	fly module handouts; Sch ch. ; VM ch.8; Gilbert ch. 9
3/30	Drosophila Syncytial Development & Gene expression <ul style="list-style-type: none"> o set-up staining o record results 	Drosophila	fly module handouts; Sch ch. ; VM ch.8; Gilbert ch. 9
4/6	SPRING BREAK		
4/13	Early/mid development, Vertebrates Microscopic study of prepared chick embryos <i>Lab Quiz; report on Fly expts. due</i>	Chick embryos	chick module handout; Sch ch 7; G ch 11-15 VM 9, 10, 11
4/20	Early/mid development, Vertebrates <ul style="list-style-type: none"> o Design your own experiment –proposal discussion* 	Chick	chick module handout; VM ch.9,10, 11; Sch. ch. 7; Gilbert ch. 11-15
4/27	Early/mid development, Vertebrates <ul style="list-style-type: none"> o Set-up expt 	Chick	chick module handout; VM ch.9,10, 11; Sch. ch. 7; Gilbert ch. 11-15
5/4	Early/mid development, Vertebrates <ul style="list-style-type: none"> o Record results Finish any expts., lab notebook, reports	Chick	chick module handout; VM ch.9,10, 11; Sch. ch. 7; Gilbert ch. 11-15
5/11	Student poster session/presentations; Turn in keys, equipment, etc.	student choice (sea urchin, fly, chick)	

[^] This schedule is subject to change without notice. We are dependent upon the availability, viability, and fertility of these animals. We cannot guarantee they will fulfill all three on the day we meet for lab.

You and your lab partner will need to be in lab on days/times other than our regularly scheduled meeting times. I expect each of you to share the workload equitably.

* If no changes are required, you may submit your proposal (one copy to Dr. Broussard and one copy to the lab manager) on Thursday. If changes are required, you must submit the revised proposal on Friday by 5pm.