BICD 130 — Embryos, Genes, and Development

Winter 2014 Posakony

Lectures: Tuesday/Thursday, 2:00-3:20 p.m., LEDDN AUD

Required Text: Scott F. Gilbert, Developmental Biology, <u>Tenth</u> Edition (2014)

<u>Lecture #</u>	Day/Date		<u>Topic</u>	Book Chapter(s)
1	Tu Jan 7		Introduction/Fertilization	4
2	Th 9		Fertilization/Cleavage	4
3	Tu	14	Cleavage	5, 6, 7, 8, 9
4	Th	16	Gastrulation I	6, 7
5	Tu	21	Gastrulation II	8, 9
6	Th	23	Development of vertebrate embryos I	10
7	Tu	28	Development of vertebrate embryos II	11
8	Th	30	Development of vertebrate embryos III	12, 13
9	Tu Feb 4 Th 6		Cell adhesion, cell migration, and morphogenesis MIDTERM EXAM (Lectures 1-8)	3
10	Tu	11	Differential gene activity I	2
11	Th	13	Differential gene activity II	2, PART TWO*
12	Tu	18	Cell-cell communication	3, PART TWO*
13	Th	20	Axis specification and pattern formation I	
14	Tu	25	Axis specification and pattern formation II	6, 8
15	Th	27	Limb development	14
16	Tu M	ar 4	Sex determination and dosage compensation	15
17	Th	6	The germ line	17
18	Tu	11	Medicine and development	18, PART THREE**
19	Th	13	Evolution and development	20

^{*}Introduction to PART TWO: Specification (pp. 107-115)

^{**}Introduction to PART THREE: The Stem Cell Concept (pp. 319-331)