

Biol. 205 Section 007 **Cell and Developmental Biology**

Fall Semester 2011

T, Th 9:30-10:45 am

Instructors: Professor Alan Jones (317 CokerHall) 962-6932 and
Professor Mark Peifer (521 Fordham Hall) 962-2271
TA

Peifer's office hours: See course front page for times and days.

Required text: Essential Cell Biology, 3rd Edition, Alberts et al **and**
Coursepak with readings from Developmental Biology, 7th Edition, by Scott Gilbert.
Both are available for purchase in the Student Stores.

The required reading is indicated below.

**Lecture goals and Powerpoints for the second half of the course
can be found on the Daily Lecture Guides and Notes Page.**

Part2—Prof. Mark Peifer

Oct 13 Cell-cell and cell-matrix junctions (Alberts pp. 693-707, Fig. 20-2; Gilbert pp. 74-75, 168-169)

Oct 18 Introduction to development, Oogenesis & Fertilization (Alberts Fig. 20-34; p. 710; p. 663; Fig. 16-25, 16-26; Gilbert pp. 39-40, 61-62, Figs. 3.14, 3.15, pp. 183-192, 194-205, Fig. 19.28, Fig. 19.30)

October 20 Fall Break

Oct 25 Cleavage & Gastrulation (Gilbert pp. 221-223, 226-228, 233-239, 305-306, 366-367)

Oct 27 Gastrulation & Neurulation (Gilbert pp. 266-267, 291-292, 295, 309, Figs. 10.11, 11.15, 12.3, 12.5)

Nov 1 Gastrulation & Neurulation (continued)

Nov 3 Induction/long range cell interactions (Gilbert Figs. 10.19, 10.22, 18.10, 18.17)

Nov 8 Exam 3 (Material through lecture of Nov. 3)

Nov 10 Determination & differentiation (Alberts pp. 270-271; 279; 714-717; Gilbert pp. 86-88, 121-123, Figs. 5.1, 10.20)

Nov 15 Patterning the body plan: Drosophila (Gilbert pp. 268-269; Figs. 9.10--Bicoid, 9.13, 9.14, pp. 286-287)

Nov 17 A model for organogenesis: C. elegans (Gilbert pp. 251-253, Fig. 6.19)

Nov 22 Making a mammal: Mouse development (Gilbert pp. 377-378; Figs. 4.21, 6.20, 11.38, 11.44)

Nov 24 Thanksgiving

Nov 29 Mouse development continued

Dec 1 Cancer-an aberration of development (Alberts pp. 717-729)

Dec 6 Cancer-an aberration of development (continued)

Wednesday Dec 14 is a Reading Day— The Review Session for the Final will likely be that day

FINAL EXAM Thursday Dec 15 8 am [Sorry--I do not choose date or time!]