

Registrar's Office
W. 1990-91

BIOLOGY 302

DEVELOPMENTAL BIOLOGY

Instructors: Phil. Johnson J 222
Glen Chilton J 223

Classes: Monday, Wednesday, Friday 11am - 12pm

Textbook: Developmental Biology - Gilbert, Scott F.
(Sinauer Pub.)

Evaluations:

Quizzes	20%
Mid-term exam	20%
Lab. work	30%
Final exam	30%

TOPIC OUTLINE

Jan. 4	Introduction to the course
7	Gametogenesis and fertilization in plants
9	"
11	Plant embryogenesis and its control
14	"
16	"
18	Control of gene expression in germination
21	Control of morphogenesis at shoot/root apices
23	"
25	"
28	Experimental plant cell fusion
30	Hormonal control of xylem differentiation
Feb. 1	"
4	Gametogenesis in animals
6	Differentiation of the germ line
8	Fertilization in animals
11	Cleavage
13	Gastrulation
15	Formation of the body plan
Mar. 4	Determination by cytoplasmic specification
6	Progressive determination
8	"
11	Development of vertebrate body plan
13	"
15	Development of the liver
18	Differential gene expression
20	"
22	"
25	Embryonic induction / tissue interactions
27	Pattern formation
29	"
Apr. 1	Hormonal control of animal development
3	"
5	Genomic equivalence / potency of the animal cell