

## EXAMPLE OF DEVELOPMENTAL BIOLOGY SYLLABUS



**Course Objective:** In this course, we ask: How does an organism develop? We approach this question from both a descriptive and experimental perspective. We will explore the major events leading to the formation of the embryo, and examine how various experimental manipulations help to define the mechanisms involved in generating different cell types and embryonic structures.

**Text:** Scott F. Gilbert, *Developmental Biology*, 10th edition

	<b>Lecture Topic</b>
Week 1	What is development?
Week 2	How do cells communicate?
Week 3	How do cells acquire identities?
Week 4	Deuterostome Invertebrate Development
Week 5	Vertebrate Development
Week 6	Differential Gene expression
Week 7	Sex determination
Week 8	Pattern formation: Morphogen gradients
Week 9	Homeotic selector/Hox genes
Week 10	Limb development
Week 11	Evo-Devo
Week 12	Final Exam