

MBG-403 Developmental Biology

Week 1	1 Oct	Introduction to Developmental Biology & Specifying Identity Mechanisms of Developmental Patterning
Week 2	8 Oct	Specifying Identity Mechanisms of Developmental Patterning & Differential Gene Expression: Mechanisms of Cell Differentiation
Week 3	15 Oct	Sex Determination and Gametogenesis
Week 4	22 Oct	Fertilization and beginning of a new organism
Week 6	5 Nov	Early Development in Invertebrates: Axis specification in <i>Drosophila</i>
Week 7	12 Nov	Early Development in Invertebrates: Axis specification in <i>Drosophila</i>
Week 8	19 Nov	Early Development in Vertebrates: Amphibians and Fish
Week 9	26 Nov	Early Development in Vertebrates: Birds and Mammals
Week 10	3 Dec	Mid-term Exam
Week 11	10 Dec	Formation of the Ectoderm: (1) Neural Tube Formation and Patterning
Week 12	17 Dec	Formation of the Ectoderm: (2) Brain Growth (3) Neural Crest Cells and Axonal Specificity
Week 13	24 Dec	Formation of the Ectoderm: (4) Ectodermal Placodes and the Epidermis Development of the Mesoderm: (1) Paraxial Mesoderm
Week 14	31 Dec	Development of the Mesoderm: (2) Intermediate Mesoderm (3) Lateral Plate Mesoderm Development of the Endoderm
Week 15		Final Exam