

2025-2026 Spring Term-MBG403 Developmental Biology-Syllabus

Week	Date	Subject
1	February 25, 2026	Introduction to Developmental Biology & Specifying Identity Mechanisms of Developmental Patterning
2	March 4, 2026	Specifying Identity Mechanisms of Developmental Patterning & Differential Gene Expression: Mechanisms of Cell Differentiation
3	March 11, 2026	Sex Determination and Gametogenesis
4	March 18, 2026	Fertilization and beginning of a new organism
5	March 25, 2026	Mid-term Exam I (Weeks 1-4)
6	April 1, 2026	Early Development in Invertebrates: Axis specification in <i>Drosophila</i>
7	April 8, 2026	Early Development in Invertebrates: Axis specification in <i>Drosophila</i>
8	April 15, 2026	Early Development in Vertebrates: Amphibians and Fish
9	April 22, 2026	Early Development in Vertebrates: Birds and Mammals
10	April 29, 2026	Mid-term Exam II (Weeks 5-8)
11	May 6, 2026	Formation of the Ectoderm: (1) Neural Tube Formation and Patterning
12	May 20, 2026	Formation of the Ectoderm: (2) Brain Growth (3) Neural Crest Cells and Axonal Specificity
13	June 3, 2026	Formation of the Ectoderm: (4) Ectodermal Placodes and the Epidermis Development of the Mesoderm: (1) Paraxial Mesoderm
14	June 10, 2026	Development of the Mesoderm: (2) Intermediate Mesoderm (3) Lateral Plate Mesoderm; Development of the Endoderm

Course Evaluation

	Percentage	Weeks		
Mid-term I	25%	1-4		February 25-March 18
Mid-term II	25%	5-8		April 1-April 22
Final	40%	1-4	25%	February 25-March 18
		5-8	25%	April 1-April 22
		9-12	50%	May 6-June 10
Attendance	10%	All		February 25-June 10

MBG 403 Office Hour

Wednesdays 13:30-14:30