



LECTURE SYLLABUS

Autumn Semester 2018

READ THIS SCHEDULE AND KEEP IT; YOU ARE RESPONSIBLE FOR THE DATES, TIMES AND PLACES.

Lecture: M, W, F 10:45 to 11:35 AM, Room 130 James Talmadge Building (JTB 130))
Professor: Mark Nielsen
Telephone: (801) 581-3233
E-mail: marknielsen@bioscience.utah.edu
Website: courses.biology.utah.edu/nielsen
Office Hours: Tuesday and Thursday 9:30 – 11:30 AM or by appointment at my office, Room 122 Building 044
TA: Artemis Sefandonakis

DATE

August 20
 August 22
 August 24

August 27
 August 29
 August 31

September 3
 September 5
 September 7

September 10
 September 12
 September 14

September 17
 September 19
 September 21

September 24
 September 26
 September 28

October 1
 October 3
 October 5

October 8
 October 10
 October 12

October 15
 October 17
 October 19

October 22
 October 24
 October 26

SUBJECT

Introduction to Course and to Embryology
 Gametogenesis
 Fertilization

Human Development – Weeks One and Two
 Human Development – Week Three
 Human Development – Week Three and Four (**LAST DAY TO ADD, DROP & ELECT CR/NO CR**)

LABOR DAY - NO LECTURE
 Placentation
 Placentation

Comparative Aspects of Vertebrate Embryology
 Integument Morphogenesis
 Integument Morphogenesis

Musculoskeletal Morphogenesis – Trunk Skeleton
FIRST MIDTERM EXAMINATION - Introduction through Integument Morphogenesis
 Musculoskeletal Morphogenesis – Trunk Musculature

Musculoskeletal Morphogenesis – Limb Skeleton
 Musculoskeletal Morphogenesis – Limb Musculature
 Musculoskeletal Morphogenesis – Head Skeleton

Musculoskeletal Morphogenesis – Head Skeleton /Head Musculature
 Musculoskeletal Morphogenesis – Head Musculature
 Gut Tube Morphogenesis – Pharynx and Respiratory System

FALL BREAK - NO LECTURE
FALL BREAK - NO LECTURE
FALL BREAK - NO LECTURE

Gut Tube Morphogenesis – Respiratory System
 Gut Tube Morphogenesis – Digestive System
 Gut Tube Morphogenesis – Digestive System (**LAST DAY TO WITHDRAW**)

Coelomic Partitioning and the Mediastinum
SECOND MIDTERM EXAMINATION - Musculoskeletal through Gut Tube Morphogenesis
 Urogenital Morphogenesis – Urinary System

October 29	Urogenital Morphogenesis – Genital Systems
October 31	Urogenital Morphogenesis – Genital Systems
November 2	Urogenital Morphogenesis – Genital Systems
November 5	Cardiovascular Morphogenesis – Angiogenesis
November 7	Cardiovascular Morphogenesis – Heart Formation
November 9	Cardiovascular Morphogenesis – Heart Formation
November 12	Cardiovascular Morphogenesis – Arteries
November 14	Cardiovascular Morphogenesis – Arteries/Veins
November 16	Cardiovascular Morphogenesis – Veins/Lymphatics
November 19	THIRD MIDTERM EXAMINATION - Coelomic Partitioning through Veins/Lymphatics
November 21	Cardiovascular Morphogenesis – Fetal Circulation
November 23	THANKSGIVING HOLIDAY - NO LECTURE
November 26	Morphogenesis of the Nervous System – Establishing the Foundation
November 28	Morphogenesis of the Nervous System – Central Nervous System
November 30	Morphogenesis of the Nervous System – Peripheral Nervous System (LAST DAY TO REVERSE CR/NC OPTION)
December 3	Morphogenesis of the Nervous System – Ear
December 5	Morphogenesis of the Nervous System – Eye
December 7	Reading Day - No Class
December 14	FINAL COMPREHENSIVE EXAMINATION Room 140 JTB 10:30 AM – 12:30 PM
December 17	Pick up final exams and obtain course grade at my office at 1:00 pm.

Book

The Developing Human, Clinically Oriented Embryology 10th edition by Moore, et al.

Exams and Grading

Midterm 1 = 75 points
 Midterm 2 = 75 points
 Midterm 3 = 75 points
 Problem Sets (5) = 50 points
 Final Exam = 125 points

The grading breakdown, based on the 400 points possible, is as follows:

>90%	A	70.0—77.4	C+
88.5—89.9	A-	60.0—69.9	C
84.5—88.4	B+	50.0—59.9	C-
80.0—84.4	B	45.0—49.9	D
77.5—79.9	B-	<45.0	E

Disability Statement

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

Accommodations Policy

I do not grant content accommodation requests as the course content fulfills legitimate pedagogical goals.