



# LECTURE SYLLABUS

Autumn Semester 2016

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 140 James Talmadge Building (JTB 140)  
**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:** Grace Hunt

## DATE

August 22  
 August 24  
 August 26  
  
 August 29  
 August 31  
 September 2  
  
 September 5  
 September 7  
 September 9  
  
 September 12  
 September 14  
 September 16  
  
 September 19  
 September 21  
 September 23  
  
 September 26  
 September 28  
 September 30  
  
 October 3  
 October 5  
 October 7  
  
 October 10  
 October 12  
 October 14  
  
 October 17  
 October 19  
 October 21  
  
 October 24  
 October 26  
 October 28

## SUBJECT

Introduction to Course and to Embryology  
 Gametogenesis  
 Fertilization  
  
**LABOR DAY - NO LECTURE**  
 Human Development – Weeks One and Two  
 Human Development – Week Three (**LAST DAY TO ADD, DROP & ELECT CREDIT/NO CREDIT**)  
  
 Human Development – Week Three and Four  
 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 31	Urogenital Morphogenesis – Genital Systems
November 2	Urogenital Morphogenesis – Genital Systems
November 4	Urogenital Morphogenesis – Genital Systems
November 7	Cardiovascular Morphogenesis – Angiogenesis
November 9	Cardiovascular Morphogenesis – Heart Formation
November 11	Cardiovascular Morphogenesis – Heart Formation
November 14	Cardiovascular Morphogenesis – Arteries
November 16	Cardiovascular Morphogenesis – Arteries/Veins
November 18	Cardiovascular Morphogenesis – Veins/Lymphatics
November 21	<b>THIRD MIDTERM EXAMINATION</b> - Coelomic Partitioning through Veins/Lymphatics
November 23	Cardiovascular Morphogenesis – Fetal Circulation
November 25	<b>THANKSGIVING HOLIDAY - NO LECTURE</b>
November 28	Morphogenesis of the Nervous System – Establishing the Foundation
November 30	Morphogenesis of the Nervous System – Central Nervous System
December 2	Morphogenesis of the Nervous System – Peripheral Nervous System ( <b>LAST DAY TO REVERSE CR/NC OPTION</b> )
December 5	Morphogenesis of the Nervous System – Ear
December 7	Morphogenesis of the Nervous System – Eye
December 9	Reading Day - No Class
December 14	<b>FINAL COMPREHENSIVE EXAMINATION</b> <b>Room 140 JTB 10:30 AM – 12:30 PM</b>
December 19	Pick up final exams and obtain course grade at the anatomy lab from 4:30 - 6:00 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.