

Professor: Dr. Maria Cristina Terreros

Office: OE 201 (inside OE-200)

Text recommended: Schoenwolf : Laboratory studies of vertebrate and invertebrate embryos. Guide and atlas of descriptive and experimental development. 9 edition. Pearson.

Office hours: Office hours: *Monday 1:00-3:00pm and Wednesday 1:00pm - 3:00pm.*

Students may contact Dr Terreros by e-mail (terrerosm@fiu.edu) to make an appointment. Do NOT use blackboard e-mail. . Please, do not show up to my office without an appointment since sometimes for academic reasons or personal emergencies changes in these office hours could happen. Thus, if you have a previous appointment I can contact you by e-mail to re-schedule it.

***Credit hours:* 1 hour.**

Course objective:

This course provides an overview of early development from gametogenesis through the embryonic period. Also provides a description of the fundamental processes of embryogenesis for each organ system. Thus, the goal of the lab is to introduce you to a microscopic examination of human uterus, ovary, testis, human chromosomes, meiosis, sperm and placenta. Also, histological sections of the chick embryo are used to illustrate changes that occur as the embryo develops.

Performance Measures:

Students will be evaluated on the following:

Exam 1	20%
Exam 2	20%
Lab reports	25%
Project	35%

Lab written exams will require students to correctly identify anatomical structures during various stages of embryonic development.

If you are unable to attend an exam, contact the instructor at least 48 hours prior to the scheduled exam time to discuss alternatives. Missed exams may result in a score of zero if the instructor is not notified in a timely fashion. Make-Up Exams will be given only to students providing valid documentation of a medical or other serious situation.

You will be evaluated using the following scale:

A=	92.6-100%
A-=	89.6-92.5%
B+=	86.6-89.5%
B=	82.6-86.5%
B-=	79.6-82.5%
C+=	76.6-79.5%
C=	70.6- 76.5%
D=	70.5-59.6%
F=	59.5% or below

Perfect attendance to the labs: Five (5) extra points will be added to the final grade. Attendance is also mandatory in all the group presentations.

Extra Points: Since the 5 extra points is a reward, if you have one absence you lose the 5 extra points. It means that, you can have 5 extra points or nothing. Absences for any interview, medical emergency, jury service, full time work or chronic medical conditions will not be considered in order to get the five extra points, etc. Also, if you are taking the lab and class together (it means in the same semester) you can transfer these 5 extra points to the class in case you need it or viceversa.

Lab coat is mandatory also during the lab presentations. If you do not wear the lab coat you will not be allow to attend the lab.

Lab Schedule for spring semester:

Lab/ Weeks	Topics	
1	No Labs	
2	Martin Luther King – No Labs	
3	Uterus, ovaries, primary and secondary oocytes, testis, Seminiferous tubules, etc. http://www.siumed.edu/~dking2/erg/index.htm	
4	33hs. chick embryo	
5	Exam 1 (written)	
6	48hs. chick embryo	
7	72hs. chick embryo	
8	48-72hs. chick embryo injected	
9	Exam 2 (written)/Lab Report due.	
10	Spring Break	
11	Project group 1	See Project File on Blackboard
12	Project group 2	
13	Project group 3	
14	Project group 4	
15	OFF – day to do the evaluations	Online

The professor has the right to alter the schedule if it should be necessary.

Exam dates:

Exam 1:

Monday sections 02/05/2018 /

Wednesday sections 02/07/2018/

Friday sections 02/09/2018.

Exam 2:

Monday sections 03/05/2018 /

Wednesday sections 03/07/2018/

Friday sections 03/09/2018.

Exams are available for review after the 2nd. Exam during office hours and until the last day of the semester (April 18, 2018). In order to review the exams you have to make an appointment.

Lab Report

Lab Reports must be turn in on the lab time and day of the second exam and will NOT be accepted after that.

Lab reports must include a cover sheet with your complete name, lab, semester, year and complete name of the professor.

Lab reports must include only the figures that you saw in the semester and not figures seen in another semesters since that mean you were not involve and paying attention during the lab. In case that happens will be removed 10% of your total grade per each lab figure.

Lab Reports should include all the slides samples that we saw during the labs. Figures related to lab 1 must be draw in a separate page.

Figures related to all chick embryos labs must be drawn in a separate page and should be as big as the entire page.

All figures must be drawn in a white copy paper.

All figures must be very high quality as the ones shown in lab report samples.

All figures must include all the labels seen in every lab plus the ones included in the handouts.

All handouts (posted in blackboard) must be incorporated in front of each figure.

Lab Reports should include the handouts at the beginning of each lab figure.

Project:

-Students are required to form **groups** to design & execute a required birth defect project.

-The presentation should be in power point and no more than 10 minutes long per each member of the group.

-Each student has to present a different subtopic of the main topic.

-The students shouldn't be reading from the computer, papers, cards or power point slides to avoid a "C".

-The professor will provide the different topics for project presentations.

-**There is a file called "Project" on blackboard** that includes all the questions that must be taken into account when you do the power point.

-Any change about the project must be informed to the members of the group before the presentation.

Project dates:

Group 1: Monday March 19, 2018 / Wednesday, March 21, 2018 / Friday, March 23, 2018.

Group 2: Monday March 26, 2018 / Wednesday, March 28, 2018 / Friday, March 30, 2018.

Group 3: Monday April 02, 2018 / Wednesday, April 04, 2018 / Friday, April 06, 2018.

Group 4: Monday April 09, 2018 / Wednesday, April 11, 2018 / Friday, April 13, 2018.

ACADEMIC MISCONDUCT

All students in this class are expected to abide by the university's Code of Academic Integrity, which states:

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of Florida International University.

As a student of this university:

I will be honest in my academic endeavors.

I will not represent someone else's work as my own.

I will not cheat, nor will I aid in another's cheating.

All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

It is important to have respect towards the instructors and fellow classmates. Inconsiderate, disrespectful, dishonest, or disruptive behavior, as the instructor or your fellow classmates perceive it, or as is described in the Student Handbook, is unacceptable in this course. The instructors reserve the right to ask you to leave or have you removed if such behavior is present. Such behavior may bring about official disciplinary procedures as outlined in the Student Handbook.

Use of cell phones, beeper, music/video devices, or other devices that are disruptive to the other student or professor and/ or used in a dishonest way against to the other student or professor are **NOT** allowed during the lectures and again, may bring about official disciplinary procedures as outlined in the Student Handbook. **YOU ARE REQUIRED TO TURN-OFF YOUR**

CELL PHONES, VIDEO DEVICES AND BEEPERS PRIOR TO THE START OF CLASS.

NOTE: This syllabus is subject to change. Please check the on-line syllabus often for modifications.