

**Developmental Biology**  
**BIOL 4350(6350), Sections A-B (4 credit hours)**  
**Fall Semester 2021**

**Lecture (BC 2022):** Mon-Wed 3:30 PM – 4:45 PM

**Laboratory (BC 2071):** Section A Thu 9:30 AM – 12:20 PM  
Section B Fri 10:00 AM - 12:50 PM

**Instructor:** Dr. Cristina Calestani  
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**Office hours:**  
Mon 5:00-5:30 PM; Tuesday 2:00-5:00 PM; Wednesday 5:00-5:30 PM; Friday 2:00-3:00 PM  
Or by appointment (please send me an email to my valdosta.edu account).

**Pre-Requisites:** BIOL 1107, BIOL 1108, and BIOL 3200 with a grade of C or better or permission of instructor.

**Course Description (as stated in the Undergraduate Catalogue):**

A study of development from fertilization through embryological stages, with an emphasis placed on experimental embryology and molecular genetic mechanisms in selected model organisms.

**Course Learning Outcomes**

This course learning outcomes support the achievement of the Department of Biology Educational Outcomes 1 through 5, and the VSU General Education Outcomes 3, 5, and 7. By the end of this course the students will be able to:

- 1) Describe the developmental anatomy of selected invertebrate and vertebrate embryos
- 2) Comprehend the basic molecular and cellular mechanisms of fertilization and embryo development
- 3) Compare and contrast development of different organisms
- 4) Comprehend and predict the outcomes of possible interactions between developmental processes and environmental factors, naturally occurring or man-made.
- 5) Understand experimental approaches used to answer specific questions in developmental biology
- 6) Develop and test a hypothesis using experimental embryology techniques learned in the laboratory

## **ASSESSMENTS**

### **Lecture**

The lecture assessments will consist of three exams and one presentation from the literature. The final exam will be optional and comprehensive.

Exams 1,2 and 3 will be taken during class time and must be turned in by the scheduled end of class. The final exam will







## **TENTATIVE LABORATORY EXERCISES:**

**Lab**