Developmental Biology BIOL 4350(6350),Section A(4 credit hours) Fall Semester 20**3**

Lecture (BC 2022): M & W 3:30 pm Đ4:45 pm

Laboratory (BC 2071): Tue 9:30 pm Đ12:20 pm

Instructor: Dr. Cristina Calestani Office: BC 2085 Phone: (229) 3337175 Email: ccalestani@valdosta.edu

Office hours:

Tuesday 1:30 pm Wednesday5:00 pm 6:00 pm Or by appointmen(pleasesendmean email to my valdosta.edu account with ÒappointmentÓ i the subject line).

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

Course Description: Study ofgametogenesis and mbryo development ith an emphasis othermolecular, cellular and genetic mechanisms of elected model organism she course will include medical aspects of developmental biology and developmental mechanisms of evolutionary change.

Course Objectives

The students will be able to:

1) Describe the developmental anatomyselfected invertebrate and venter tembryos

2) Comprehend the basic molecular and cellular mechanisms of fertilization and embryo development

3) Compare and contrast developmendid ferent organisms

4) Understand experimental approaches used to anpweifis questions in developmental biology

5) Develop and test a hypothesis using experimental embryology techniques learned in the laboratory

6) Analyze and interpret experimental data in developmental biology

7) Communicate scientific results and evaluate in significance in the context of current knowledge in developmental biology

8) Discuss ethical implications and societal impacts of advances in developmental biology research

Textbook

Scott F. Gilbert. 201 Developmental Biology th ed. Sinaue Associate, Inc., Massachusetts USA.

Laboratory Manual

Mary S. Tyler & Ronal N. Kozlowski. 201@evBio Laboratory: vade mecum &n Interactive Guide to Developmental Biologýonline access) To download the manual register <u>attp://labs.devbio.cor</u>using the code printed inside the cover of the textbook.

Additional material for the labwill be posted or Blazeview

ASSESSMENTS

Lecture

The lecturæssessments will consist of four exams. The fourth exam will be a comprehensive final. Exams1,2 and 3will be taken during class time and must be turned in by the scheduled end o<u>**T**bæssal exam will</u> be on Friday December 6, 20**fro**m 5:00pm to7:00pm. Exams grades will be posted on Blazeview.

- All exams arebased orlecture material and assigned readings
- Exams questionaremultiple choice true/false, matching anathort written answers
- <u>If you fail to attend one of the examinar any reasonyou must provide documented evidence (e.g. from docto police, etc.) that circumstances beyond your control evidence you from taking the exam. Failure to provide reasonable evidence will reals in a grade of 0 for the exam. Makeup examiles be administered at any time during the semester at the discretion of the instructor.</u>
- <u>If you arrive late for an exampou will be allowed to take the the take the take the take the take the sequence of the classon will not be allowed extra time unless a documentable emergency to occurred.</u>
- <u>The final exam grade (exam) can eplace the lowest grade of exams</u> of <u>a spplies</u> only to exam 4; no other examcan eplace the lowest grade. If examis used to replace awker grade in test1, 2, or 3, the grade for exam4 will count twice in the final grade calculation <u>be used to replace a missed</u> test.
- Exam4 will always count in calculating the final grade.

Extra-credit up to a maximum of 10 points will be offered These points will be added to the student total points for th course before alculating the percentage grade. Extradit points can be earned with dass activities during the lecture or the laboratory, or with takeome assignments.

*Final grade calculation: (Lecture exams +Attendance+ Lab practicals + Lab presentations + ExtraCredits)/530

NOTE: Graduate students nrolled in BIOL 6350 will have additional assignments and adjusted grading scale in a supplementary syllabus.

Classroom Accommodations

Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities atted in Farber Hall. The phone numbers are 224658 (V/VP) and 2191348 (TTY). For VSUÕs Access Office please see http://www.valdosta.edu/access/facresources.shtml

Behavior in the Classroom

It is assumed that all students will act in a mature main the classroom, showing consideration for their peers and the instructor. Any student who consistently distracts other students or the instructor will be removed from the courseAll electronic devices must be turned off or set to silent mode in the assorom.

Cheating or Plagiarism