Developmental Biology BIOL 4350(6350),Section A(4 credit hours) Fall Semester 203

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

Laboratory (BC 2071): Tue 9:30 pm £12:20 pm

Instructor: Dr. Cristina Calestani

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Email: ccalestani@valdosta.edu

Office hours:

Tuesday 1:30 pm3:00 pm Wednesday5:00 pm 6:00 pm

Or by appointmen(pleasesendmean email to my valdosta.edu account with OappointmentÓ 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 arealmbryo developmenwith an emphasis othermolecular, cellular and genetic mechanisms of elected model organism to be 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 anatom selfected invertebrate and verteete embryos
- 2) Comprehend the basic molecular and cellular mechanisms of fertilization and embryo development
- 3) Compare and contrast development different organisms
- 4) Understand experimental approaches used to angecific 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 evaduateir 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@evelopmental Biologyth ed. SinaueAssociate, Inc., Massachusetts USA.

Laboratory Manual

Mary S. Tyler & Ronal N. Kozlowski. 201 DevBio Laboratory: vade mecum &n Interactive Guide to Developmental Biologyonline access) To download the manual register attp://labs.devbio.com sing the code printed inside the cover of the textbook.

Additional materia for the labwill be posted or Blazeview

ASSESSMENTS

Lecture

The lectureassessments 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 of the sche

Exams grades will be posted on Blazeview.

- All exams are based onecture material and assigned readings
- Exams questions remultiple choice true/false, matching another written answers
- 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 controllevented you from taking the exam. Failure to provide reasonable evidence will reds in a grade of 0 for the exam. Makeup examils be administered at any time during the semester at the discretion of the instructor.
- If you arrive late for an exampou will be allowed to take the xam However, you must turn in the example at the regular scheduled end of the classou will not be allowed extra time unless a documentable emergency recovered.
- The final exam grade (exam) can eplace the lowest grade of exams 2 or 3 This applies only to exam 4; no other examcan eplace the lowest grade. If exams used to replace awar grade in test1, 2, or 3, the grade for exam4 will count twice in the final grade calculation and the count twice in the count twice in
- 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 from the before alculating the percentage grade. Extradit points can be earned with drass activities during the lect or the laboratory, or with takeome assignments.	

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

NOTE: Graduate students rolled 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 Disabilitiesalted in Farber Hall. The phone numbers are 224958 (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 mainrible 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 theadsroom.

Cheating or Plagiarism