

**THE UNIVERSITY OF TEXAS AT EL PASO**  
**COLLEGE OF SCIENCE**  
**DEPARTMENT OF BIOLOGICAL SCIENCES**

Course #: BIOL 4395 CRN 17253  
Course Title: Developmental Biology  
Credit Hrs: 3  
Term: Fall 2015  
Course Meetings & Location: T/R  
Prerequisite Courses: BIOL1305, 3414, ZOOLOGY 2406 OR BIOL 1306/1108  
Instructor: Dr. Charlotte Vines  
Office Location: Biosciences 4.124  
Contact Info: (915) 747-8127 Phone #  
cvines@utep.edu E-mail address  
(915) 747-5808 Fax #  
Office Hrs: T 1:30 pm-3 pm , or by appointment  
Textbook(s), Required: Developmental Biology, Tenth Edition. Scott F. Gilbert.  
Materials: OLDER VERSIONS, AND ONLINE VERSIONS MAY BE USED.

Course  
Activities/Assignments:

Evaluation will be based on the average of 4 exam grades: **3 TAKE HOME MIDTERMS (22% each of your final grade) AND ONE FINAL (22% of your final grade)** and class participation (**12% of grade**).

Assessment of Course Objectives: Students will be assessed via three term exams (each worth 22% of the grade) class participation (combined worth 12% of the grade) and a comprehensive final exam grade (22%).

Course Schedule	Aug 25	Chapter 1-Comprehending Development
(Subject to change):	Aug 27	Chapter 2- Differential Gene expression in Development
	Sep 1	Chapter 3- Cell-Cell Communication in Development Specification
	Sep 3,8	Chapter 4 –Fertilization
	Sep 10, 15	Chapter 5- Early development
	Sep 17	Chapter 6 The Genetics of Axis Specification
	<b>Sep 22</b>	<b>First Midterm assignment Due at 11:59pm (no class; exam is due today)</b>
	Sep 24	Chapter 7 Sea Urchins and Tunicates
	Sep 29	Chapter 8 Early Development in Vertebrates
	Oct 1	Early Amphibian Development
	Oct 6	Chapter 9 Dearly Development in Vertebrates
	Oct 8	Birds and mammals
	Oct 13	The Stem Cell Concept
	<b>Oct 15</b>	<b>Second Midterm assignment Due (No class exam is due today)</b>
	Oct 20	Chapter 10 Emergence of Ectoderm
	Oct 22	Chapter 11 Neural Crest cells and axonal Specificity
	Oct 27	Chapter 12 Paraxial and Intermediate Mesoderm
	Oct 29	Chapter 13 Lateral Plate Mesoderm and the Endoderm
	Nov 3	Chapter 14 Development of the Tetrapod Limb
	Nov 5	Chapter 15 Sex Determination
	Nov 10	Chapter 16 Postembryonic Development
	<b>Nov 12</b>	<b>Third Midterm assignment Due (No class exam is due today)</b>
	Nov 17	Chapter 17 The Saga of the Germ Line
	Nov 19	Systems Biology
	Nov 24	Chapter 18 Birth Defects, Endocrine Disruptions and Cancer
	<i>Nov 26</i>	<i>No class Thanksgiving</i>
	Dec 1	Chapter 19 Ecological Developmental Biology
	Dec 3	Chapter 20 Developmental Mechanisms of Evolutionary Change
	<b>Dec 6</b>	<b>Final due (NO LATE WORK ACCEPTED)</b>

Grading Policy: Letter grades for this course will be assigned as follows:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Make-up Policy: There will be **NO MAKEUP EXAMS AND NO MAKEUP QUIZZES**. If you miss an exam, the exam will receive the score of **ZERO**.

- Attendance Policy: 12% of your grade will be derived from discussions that take place during each class. These discussions will be derived from information presented in the class. If you miss a quiz or classes, there are **NO MAKEUPS**.
- Academic Integrity Policy: The UTEP academic integrity policy will be strictly enforced during exams. Any student failing to adhere to the policy will be disciplined.
- Civility Statement: All cell phones should be turned off during class. Students with disruptive behavior will be asked to leave the class. If you are tardy and miss the quizzes there will be no makeup quiz.
- Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148, [dss@utep.edu](mailto:dss@utep.edu), [cass@utep.edu](mailto:cass@utep.edu) or go to Room 106 Union East Building. For additional information please visit the CASS website at [www.sa.utep.edu/cass](http://www.sa.utep.edu/cass). The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.
- Military Statement: If you are in the military, with the potential of being called up for military service and/or training during the course of the semester, you are encouraged to contact Dr. Vines as soon as possible