

# DEVELOPMENTAL BIOLOGY (BIO 3265) - 2016

**Lectures:** Monday, Wednesday & Friday 16:00 - 16:50 PM; Beury 160.

**Instructor:** Gianfranco Bellipanni, Ph.D. – bellipa4@ temple.edu

**Office Hours:** Biology Life Sciences Building, Room 427B

- By appointment (Phone: 215-204-9578, or email)
- TBD 12-1pm

**Prerequisite:**

Although Bio 2203 Genetics is the only prerequisite, students without any background in molecular or cell biology may find Bio 3265 difficult.

**Description:**

Developmental Biology is a course designed to impart a broad understanding of the cellular and molecular mechanisms underlying animal development. The course involves the comparative study of embryonic development—including gametogenesis, fertilization, early embryology, and differentiation of organs, tissues, and cells—in a number of model systems among of invertebrate and vertebrate organisms. This course will introduce students to aspects of the developmental process that are conserved in organisms as varied as the fruit fly and the chicken as well as to the specific modifications made by each model system with the goal of providing an overarching understanding and appreciation of the complexities of development.

**Material**

The major source of reference readings for lectures is the book entitled “**Principles of Development**”, by Lewis Wolpert (Oxford University Press, 5th Edition 2015) ISBN:9780198709886, which is available from the Temple Bookstore.

**Grading:**

At the end of term your Final Grade will be based on scores on quizzes (no make-ups for missed quizzes), paper discussions and exams as follows:

30% Quizzes: The quizzes will help you keep up with the readings and manage your time wisely. Quiz dates are listed in the schedule at the end of this document.

70% Exams: There will be three exams during the term. None of the exams are cumulative. Exams may include short answer, essay, and multiple-choice questions.

There will be NO MAKE-UP TESTS OR QUIZZES throughout the course. Missed quizzes will count as your lowest score quizzes. If have a documented medical or family emergency, a make-up exam may be given PROVIDED YOU CONTACT YOUR INSTRUCTOR BEFORE THE EXAM OR AS SOON AS POSSIBLE AFTER THE EMERGENCY. Complaints about grading will not be considered later than 2 weeks after the test is returned.

Final grades will be rounded to the nearest whole number.

A range = 92% or above

A- range = 90 - 91%

B+ range = 87% - 89%

B range = 83% - 86%

B- range = 80% - 82%  
C+ range = 76%- 79%  
C range = 65%-75%  
C- range = 60% - 64%  
D+ range = 55% - 59%  
D range = 50% - 54%  
D- range = 45%- 49%  
F range = 44% or below

### **Blackboard:**

Course announcements, assignments, and grades will be posted online using BlackBoard. When available, PowerPoint presentations will be posted shortly before or after each lecture. Updates to this syllabus will be posted; please check periodically. If you have not used BlackBoard previously, ask a fellow student to spend a few minutes helping you.

You will also receive important course announcements via your Temple email account. If you do not use your Temple email account, you need to activate it. If you have forgotten your password, you need to go to Computing Services and have them assign you a new password. It is strongly recommended that you check your e-mail regularly. I may send messages—sometimes with attachments—to the class using this medium. You should also feel free to email me if you have any questions or problems (please include your full name in all email messages regarding Bio 3265)—I check e-mails daily. But please, feel free to call if you prefer a more personal communication. I am also available during the office hours listed above. If you don't find me in our office, please check for me in the lab (BL 422). If you would like to meet with me at another time, please don't hesitate to e-mail or to call, and I can schedule a time to meet.

### **Attendance:**

Lecture attendance and punctuality is expected and your presence is MANDATORY when quizzes or exams are scheduled. If you miss a class meeting for any reason, you will be held responsible for all material covered and announcements made in your absence. To get credit for an in-class quiz you must attend the scheduled class. Quizzes will be administered at the beginning of the class. If you are late in the class you will miss the quiz. Tardiness is counted as zero. Avoid entering the lectures late. If you are late, enter as quietly as possible.

### **Disabilities:**

Any student who needs accommodation because of a disability should contact Dr. Bellipanni privately to discuss the specific situation as soon as possible. The Office of Disability Resources and Services (215-204-1280) in Ritter Annex 100 can coordinate reasonable accommodations for students with documented disabilities.

### **Honesty and Civility:**

You must abide by Temple's Code of Conduct (see <http://www.temple.edu/assistance/udc/coc.htm>), which prohibits:

1. Academic dishonesty and impropriety, including plagiarism and academic cheating.
2. Interfering or attempting to interfere with or disrupting the conduct of classes or any other normal or regular activities of the University.

### **Academic Rights and Responsibilities:**

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy # 03.70.02) which can be accessed through the following link: [http://policies.temple.edu/getdoc.asp?policy\\_no=03.70.02](http://policies.temple.edu/getdoc.asp?policy_no=03.70.02)