BIOLOGICAL SCIENCES 333  
Developmental Biology  
Fall 2016  (1167)

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Prerequisites:  
BISC202, MBB 222 and MBB231 with a grade of C- or better.

Course description:  
This is an introductory course in Developmental Biology. It focuses on a number of  
model organisms (plants, invertebrates and vertebrates) and addresses key questions such  
as: How do cells in the developing embryo differentiate into specialized cells such as  
neurons or muscle cells? How do these cells organize themselves to form an intact animal  
or plant? The course will cover the sequence of events during embryogenesis (pattern  
formation, cell fate specification, cell migration and morphogenetic events, cell  
differentiation, organogenesis) with the goal of illustrating general principles and  
molecular mechanisms of development.  
The course is aimed at a general audience of biology students. The course is introductory  
but requires a basic understanding of genetics and cell and molecular biology.

Recommended textbook:  
Principles of Development.  
iClickers will be used in this course.

Mark distribution:  
Tutorials: 10%  
iClicker marks: 5%  
1 Midterm Exam: 25%  
Final Exam: 60%

(preliminary, might be subject to change)