

Biology 423 Lab, Spring 2015

Developmental Biology Lab

Learning outcomes:

- 1) To allow students to observe select developmental processes and gain a better understanding of critical fundamental developmental events. *Development is an exciting and dynamic process that cannot be appreciated in still pictures.* It is a continuum.
- 2) To provide “hands on” experience in experimental biology.
- 3) To increase understanding of *experimental design and experimental interpretation.*
- 4) To practice oral and written communication skills.

Attendance: Attendance and arriving on time to lab is mandatory. Attempts will be made to accommodate emergencies. More than two absences will result in a reduction of your final grade by one full letter grade for each additional absence. For example, if you earn a B in the course and have 3 unexcused absences, you will receive a C for the course.

Grades:

Proposal:	10 points
Lab notebook:	20 points
Presentation:	20 points
Final Paper:	20 points
Participation:	30 points (coming to class prepared and on time; working constructively and productively in groups; contributing to class discussions)

94-100%	A
91-93%	A-
88-90%	B+
84-87%	B
81-83%	B-
78-80%	C+
74-77%	C
71-73%	C-
68-70%	D+
64-67%	D
61-63%	D-
<60%	F

Academic Dishonesty: The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office.
<http://www.dso.iastate.edu/ja/academic/misconduct.html>

Disability Accommodation: Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact Dr. Essner or Becraft to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with Dr. Essner or Becraft, you will need to obtain a SAAR form with recommendations for accommodations from the [Disability Resources Office](#), located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu . Retroactive requests for accommodations will not be honored.

Dead Week: This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook <http://www.provost.iastate.edu/resources/faculty-handbook> .

Harassment and Discrimination: Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, [Student Assistance](#) at 515-294-1020 or email dso-sas@iastate.edu, or the [Office of Equal Opportunity and Compliance](#) at 515-294-7612.

Religious Accommodation: If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the [Dean of Students Office](#) or the [Office of Equal Opportunity and Compliance](#).

Contact Information: If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.

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Lab Schedule

Date	Topics
Jan. 13	Introduction and Tour of the Zebrafish Facility
Jan. 15	Safety
Jan. 20	in situ hybridization
Jan. 22	Fluorescence microscopy
Jan. 27	Discussion of projects
Jan. 29	Discussion of projects
Feb. 3	Independent projects
Feb. 5	Independent projects
Feb. 10	Independent projects
Feb. 12	Independent projects
Feb. 17	Independent projects
Feb. 19	Lab meeting
Feb. 24	Independent projects
Feb. 26	Independent projects
Mar. 3	Independent projects
Mar. 5	Independent projects
Mar. 17	Spring Break
Mar. 19	Spring Break
Mar. 24	Independent projects
Mar. 26	Lab meeting
Mar. 31	Independent projects
Apr. 2	Independent projects
Apr. 7	Independent projects
Apr. 9	Independent projects
Apr. 14	Independent projects
Apr. 16	Lab meeting
Apr. 21	Independent projects
Apr. 23	Independent projects
Apr. 28	Prepare for presentations
Apr. 30	Presentations