

Spring 2015 BIOL 1625: PRINCIPLES of BIOLOGY II LABORATORY SCI rm.209 1 Credit

Section	CRN	Time	Professor
1625-01	20686	R 11:00-1:50	Amber Mortensen
1625-03	24485	R 2:00-4:50	Dr. Jennifer Ciaccio
1625-50	26205	R 5:15-7:10	James Meidell
1625-02	20687	F 11:00-1:50	Adam Fisher

Required Texts: *Campbell Biology* by Reece *et al.*, 9th Ed.

Description: BIOL 1625 Principles of Biology II laboratory is the second semester of a year-long series covering fundamental biologic principles for biology majors, including students in the pre-health professions. **Students must be concurrently enrolled in BIOL 1620, the lecture that accompanies the laboratory.**

Biology Program Goals and Learning Outcomes

Goal 1: Demonstrate breadth of discipline-specific knowledge

- Outcome 1: Students will describe and explain fundamental topics in five principal perspectives of biology:
 - The chemical and molecular machinations operating within all biological processes
 - The centrality of genetic systems' governance of life's actions from the cellular to the phyletic
 - The coordinated regulation of integrated cellular systems and their effect on the physiological functioning of organisms

- The dynamic interaction of living systems with each other and their environments
- The transforming role of evolution in changing life forms and how evolution explains both the unity and diversity of life

Goal 2: Demonstrate the capacity to think independently and critically

- Outcome 2: Students will employ scientific methods to acquire, analyze and apply knowledge of biological phenomena.

Goal 3: Effectively convey scientific literacy through various mediums of communication

- Outcome 5: Written Communication: Students will produce well-written reports and/or research papers covering topics in biology. These papers will be presented in the accepted formats of scientific research articles.
- Outcome 6: Oral Presentation: Students will publicly present scientific information covering specific topics in the biological sciences. Presentations will adequately communicate data and information in a clear and logical format.

Dress: Students will perform some dissections and use sharp objects such as scalpels and there may be some spray of body fluids. Some chemicals and stains may also be used. For these reasons, shoes with closed toes should be worn (no sandals). Students should also wear a laboratory coat, surgical scrubs, or older clothes that could potentially be ruined.

If you miss your regularly scheduled lab section due to an emergency:

1. Attend a different laboratory section the same week that is scheduled to cover the missed exercise. The student is responsible for getting a signature from the instructor to prove attendance of a different section.

2. Immediately email and/or phone your instructor and discuss reasons for your absence, and which different section you will be attending.
3. Do not make a habit of missing your scheduled lab and attending another. Assignments completed in a different lab than the one you are registered for may result in the misplacement or loss of the material by the other laboratory instructor. If this happens, **you will not be permitted to make up the missed assignment**. If you wish to attend a different laboratory section on a regular basis, you must drop/add.

Grading: There will be 1000 points possible for the course. Final grades will be based on these ranges:

A = 94-100% C+ = 77-79.99% D- = 60-63.99%

A- = 90-93.99% C = 74-76.99% F = <60%

B+ = 87-89.99% C- = 70-73.99%

B = 84-86.99% D+ = 67-69.99%

B- = 80-83.99% D = 64-66.99%

In-Class Short Term Experiments in Digital Notebooks (10 at 25 points each) 250

Short Term Experiment Presentations or Posters (10 at 25 points each) 250

Short Experimental Write-ups (2 at 45 points each) 90

Long-Term Experiment 70

Long-Term Experiment Research Paper 100

Long-Term Experiment Presentation 100

Long-Term Experiment Poster 50

Peer Review 90

Total Points 1000

Students are warned that **plagiarism results in a failing grade “F” for the entire course** (if you are unsure what constitutes plagiarism, go to: <http://dsc.dixie.edu/owl/> or see: <http://www.utoronto.ca/writing/plagsep.html>)

TENTATIVE SCHEDULE: The instructor reserves the option to change all dates.

Week	Topic
01/15-16	SYLLABUS, SCIENTIFIC METHODS
01/22-23	BACTERIA
01/29-30	PROTISTS
02/05-06	FUNGI
02/12-13	PLANT GERMINATION

02/19-20	PLANT GROWTH
02/26-27	LONG-TERM PROJECT PLANNING
03/05-06	LONG-TERM PROJECT PLANNING - Continued
03/12-13	Spring Break – No lab
03/19-20	START LONG-TERM PROJECT
03/26-27	INVERTEBRATES I
04/02-03	INVERTEBRATES II
04/09-10	INVERTEBRATES III
04/16-17	VERTEBRATES I
04/22	POSTER SESSION Noon – 6pm
04/23-24	LONG-TERM PROJECT PRESENTATIONS

College approved absences: Dixie College Policy explains in detail what needs to happen if you anticipate being absent from class because of a college-sponsored activity (athletic events, club activities, field trips for other classes, etc). Please read this information and follow the instructions carefully! The policy can be found at:

<http://www.dixie.edu/humanres/policy/sec5/523.html>

Dmail: Important class and college information will be sent to your Dmail account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

Disability Accommodations: Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza Building. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

College resources: Several college resources are available to help you succeed. Check out the links for each one to get more information.

If you need help understanding the content of your courses, go to the Tutoring Center located on the 4th floor of the Holland Centennial Commons in Room 431. You can visit them online at <http://dsc.dixie.edu/tutoring/>

If you need help writing papers, go to the Writing Center on the fourth floor of the Holland Centennial

Commons in room 421. You can also visit them online at http://new.dixie.edu/english/dsc_writing_center.php

If you need to use a computer to do schoolwork on campus, go to the Smith Computer Center or in the Dixie College library on the second, mezzanine, or third floors of the HCC.

If you are assigned to take a test in the Testing Center, go to the North Plaza. You can get information on their website at <http://new.dixie.edu/testing/>

The Library has all kinds of information and resources. Visit the Dixie State College Library on the 2nd, and 3rd floors of the Holland Centennial Commons, or go to the library website at <http://library.dixie.edu/>

Classroom expectations: It is the responsibility of an instructor to manage the classroom environment to ensure a good learning climate for all students. Appropriate student behavior includes paying attention when the professor is talking, following instructions, and speaking and acting respectfully to the professor and fellow students. If your behavior is disruptive, I will first let you know verbally that you are behaving inappropriately. If it continues, I will send you written notice that your behavior must change. As a last resort, I will drop you from the class. For more details, please see the disruptive behavior policy at: <http://www.dixie.edu/humanres/policy/sec3/334.html>

Academic integrity: I believe that most students are honest, and I don't want to punish everyone for the few that aren't; however, I will not tolerate cheating. If I discover that you have cheated, you will be given a grade of zero for that assignment or exam and you will not be allowed to make it up. Repeated or aggravated offenses will result in failing the course. Any time you take credit for work you did not do, you are cheating. This includes getting the answers to homework problems from someone else, copying information from a library or internet source and presenting it as if it were your own words (plagiarism), looking at someone else's answers on an exam, and asking someone who has already taken a test about what questions it contains. I have tried to design assignments and exams to minimize the temptation to cheat, but it is not my job to prevent you from cheating. If you cheat and are not caught, it doesn't mean that you "beat the system." It means you violated the Student Code and forfeited your integrity, whether or not you are caught. You will pay the price, sooner or later. (See "Student Code" <http://www.dixie.edu/humanres/policy/sec5/533.html#appeals>).

Important DSC dates to remember (for course dates, see schedule on the course website):

Aug 25	Classwork Starts
Aug 28	Last Day for Waitlist
Aug 29	Last Day to Add Without Signature
Sep 1	Labor Day
Sep 4	Drop/Audit Fee Begins (\$10 per class)
Sep 4	Residency Application Deadline

Sep 9	\$50 Late Registration/Payment Fee
Sep 15	Pell Grant Census
Sep 15	Last Day for Refund
Sep 15	Last Day to drop without receiving a "W" grade
Sep 17	Courses dropped for non-payment
Sep 19	Last Day to Add/Audit
Oct 1	Fall 2014 Associate's degree Graduation Application Deadline
Oct 15	Mid-Term Grades Due
Oct 16-17	Semester Break
Oct 20	Last Day to Drop Individual Class
Oct 27	Spring and Summer 2015 class schedules available online
Nov 3	Spring 2015 Bachelor's degree Graduation Application Deadline
Nov 11	Career Day
Nov 14	Last Day for Complete Withdrawal
Nov 17	Spring Registration open to Seniors (90+ credits)
Nov 18	Spring Registration open to Juniors (60+ credits)
Nov 19	Spring Registration open to Sophomores (30+ credits)
Nov 20	Spring Registration Open to All Students
Nov 26-28	Thanksgiving Break
Dec 12	Classwork Ends
Dec 15-19	Final Exams