# BSC 2011L - Integrated Principles of Biology II Laboratory Syllabus - Spring 2014

#### I. Course Information

Laboratory Locations: B-11, B-22, and B-23 Bartram Hall

Biology Office: 220 Bartram Hall, 392-1175

Lab Coordinator: Kent A. Vliet, PhD, Department of Biology, 208 Carr Hall, kvliet@ufl.edu

Required Texts: (1) Vliet, K.A., 2013. 2011L: Integrated Principles of Biology II Lab Manual, Third

Edition. Hayden-McNeil Publishing, Plymouth, Michigan. 261 pp.

(2) Vliet, K.A. BSC 2011L Course Pack - available at Target Copy.

Homepage: www.bsc.ufl.edu/2011L.html SAKAI: https://lss.at.ufl.edu/

	II.	Instructors
My TA:		
My TA: Office:		
Office Hours:		
Email:		

## III. Grading

Your BSC 2011L grade will be based on raw scores from quizzes, practical quizzes, data sheets and preand post-lab assignments. Specific assignments are detailed in a point breakdown sheet provided with this syllabus. While data sheets, pre-labs, and post-labs are each worth a certain number of points, not all questions in every assignment will be graded. Rather, a subset of the questions will be graded for accuracy, while all others will be graded for completeness. Since you do not know which questions are graded for accuracy or completeness, you should devote full effort to all questions on assignments. Please understand that this policy has been implemented to reduce TAs' grading time while still offering students engaging learning experiences. Quizzes generally cover material from the previous lab exercise as well as assigned readings for the present lab. Final letter grades will be assigned based on percentage of the total points earned. Minimum grade cutoffs are listed below. These may be lowered ("curved") at the discretion of the instructors, but they will not be raised. In other words, if you receive 90% of the possible points, you are guaranteed to earn an A grade. Scores will not be rounded (i.e., 89.9% is not 90%).

Point Range (%)	Letter Grade
≥ 90.0	Α
≥ 86.7	A-
≥ 83.3	B+
≥ 80.0	В
≥ 76.7	B-
≥ 73.3	C+
≥ 70.0	С
≥ 66.7	C-
≥ 63.3	D+
≥ 60.0	D
≥ 56.7	D-
< 56.7	E

Note that the current UF policy for assigning grade points is available at the following undergraduate catalog web page: <a href="http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html">http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html</a>.

Extra Credit: There is no extra credit available in this course.

**Special Treatment:** Please do not request individual special treatment regarding grading at the end of the semester; **we do not adjust grades for individuals for any reason**. Plan to do well on all exams and other assessments from the beginning of the semester; if you are having difficulty in the class, please let your instructors know *before* the exams rather than after.

## IV. Lab Supplies

Dissecting kit (small probe and seeker, fine dissecting scissors, fine point forceps, scalpel with replaceable blade, teasing needles). The Campus Shop, the Florida Bookstore, and University Book and Supply should carry good kits with these items. **All of these supplies must be furnished by the student**. They will not be available in lab.

## V. Reading Assignments

You should review fully each laboratory assignment *prior* to the laboratory period. In most cases you will be unable to complete the observations and experiments fully and efficiently during the lab period unless you know exactly what is to be done before you walk into the laboratory. Reading assignments are included in this syllabus. Weekly quizzes are based partially on the reading assignments.

## VI. Expectations

Each student is solely responsible for reading and following the instructions, guidelines and schedules in this syllabus. Not having read the information in this syllabus will not constitute an excuse for missing an assignment, exam or other assessment.

## VII. Lab Policies

#### A. Excused absences

You are expected to attend the lab section for which you are registered. If you miss your lab, notify your instructor immediately by e-mail. You must have a valid, documented excuse for missing your regular lab section to be allowed to make up a lab without penalty. The validity of excuses for missed labs or assignments will be determined by your instructor. If you do not have documentation for missing your lab, you may be given the opportunity to makeup assignments of graded materials at the discretion of your instructor. This work will be done outside of the laboratory and will be penalized 20% of the total points. In this case, missed quizzes cannot be made up. Missed labs generally must be made up within the same week. If you know in advance that you are unable to make your regular sections, contact your lab TA earlier in the week.

#### B. Illness

If you are ill with an infection that may be contagious by casual contact (e.g., a cold or flu), you should not attend class. Furthermore, if you have a fever associated with any illness, you should not attend class until you have been free of fever for at least 24 hours. The instructor reserves the right to ask any student to leave the classroom at any time if there is a reasonable likelihood that the student's presence in the classroom places other students at substantial risk of infection.

### C. Assignment deadlines

Graded assignments are due at the *beginning* of the lab session one week after the actual lab work was done, unless otherwise noted. Assignments turned in after the start of the lab session will be considered late work. NOTE: Students who attend a lab session other than their officially registered section and perform an experiment which require a data sheet or lab report *must still turn in their work at the* 

beginning of their officially registered section on the following week. If you are unable to turn in your work during your regular lab section and are not able to hand it in directly to your instructor, DO NOT leave an assignment at your instructor's office. Rather, (1) make a photocopy of your lab report for safekeeping and (2) hand in the original to the staff of the departmental office (220 Bartram Hall) during regular office hours (8 a.m.- 4 p.m.).

#### D. Late work

Late work will be penalized 10% of the total points per day (weekends, *i.e.*, Friday to Monday, are counted as two days and U.F.-recognized holidays are not counted). NOTE: The weekends preceding and following the Semester Break holidays will be counted.

#### E. Participation

Students may be allowed to turn in assignments on which they did not participate in the collection of data, at the discretion of the lab instructor. These assignments will be penalized 20% of the points.

#### F. Lab cleanliness

No food or drink is permitted in the labs and students are expected to leave the lab as clean and orderly as it was when they arrived for class. NOTE: All scraps of paper, paper towels, broken cover slips and slides, masking tape, and any other trash must be properly disposed of by the students themselves.

#### G. Lab attire

Students are not allowed to wear sandals or open-toed shoes in the laboratories.

## VIII. Academic Honesty

All students registered at the University of Florida have agreed to comply with the following statement: "I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University."

In addition, on all work submitted for credit the following pledge is either required or implied: "On my honor I have neither given nor received unauthorized aid in doing this assignment."

If you witness any instances of academic dishonesty in this class, please notify the instructor or contact the Student Honor Court (392-1631) or Cheating Hotline (392-6999). For additional information on Academic Honesty, please refer to the University of Florida Academic Honesty Guidelines at: <a href="http://www.dso.ufl.edu/judicial/procedures/academicguide.html">http://www.dso.ufl.edu/judicial/procedures/academicguide.html</a>.

## IX. Accommodations for Students with Disabilities

Students who will require a classroom accommodation for a disability must contact the Dean of Students Office of Disability Resources, in Peabody 202 (phone: 352-392-1261). Please see the University of Florida Disability Resources website for more information at: <a href="http://www.dso.ufl.edu/drp/services/">http://www.dso.ufl.edu/drp/services/</a>. Note that the student should provide documentation of a requirement for accommodation by the second week of labs. No accommodations are available to students who lack this documentation. It is the policy of the University of Florida that the student, not the instructor, is responsible for arranging accommodations when needed. Once notification is complete, the Dean of Students Office of Disability Resources will work with the instructor to accommodate the student.

## X. Counseling Center

Many students experience test anxiety and other stress related problems. "A Self Help Guide for Students" is available through the Counseling Center (301 Peabody Hall, 392-1575) and at their web site: <a href="http://www.counsel.ufl.edu/">http://www.counsel.ufl.edu/</a>.

## XI. BSC 2011L Laboratory Schedule – Spring 2014

Laboratory topics and reading assignments for this course are listed below. This is a tentative schedule; the dates and coverage of specific topics are subject to change.

Week	Week of	Laboratory Topic	Reading Assignment	
1	6 Jan	**** NO LABS ****	Lab 1: Prelab in course pack	
2	13 Jan	Introduction/ Science and Statistical Inference	Lab 1 in course pack Lab 1: Prelab	
3	20 Jan	**** NO LABS ****		
4	27 Jan	Plant Diversity	Chapter <b>7</b> ; Alternation of generations (pp. 115-116); Lab 4 Prelab in Course pack	
5	3 Feb	Photosynthesis	Chapter <b>6</b>	
6	10 Feb	Plant Anatomy	Chapter 8	
7	17 Feb	Sensory Physiology	Lab 2 in Course pack Lab 2: Prelab	
8	24 Feb	Fetal Pig Dissection  *Bring your dissection kits*	Chapters <b>3</b> and <b>4</b> Lab 3, Part 1: Prelab in Course pack	
9	3 MAR	**** NO LABS ****		
10	10 Mar	Surgery Exercise *Bring your dissection kits*	Lab 3, Part 2 in Course pack	
11	17 Mar	Spatial Relations Outdoor lab - Dress appropriately	Chapter <b>11</b> Prelab Assignment in Manual	
12	24 Mar	Population Ecology / Plan project	Chapter <b>10 and 12 (pp. 203</b> - <b>204)</b>	
13	31 Mar	**** NO LABS ****		
14	7 Apr	Species Interactions Outdoor lab - Dress appropriately	Chapter 12 and Appendix A Prelab Assignment in Manual	
15	14 Apr	**** NO LABS ****		
16	21 Apr	**** NO LABS ****		

## XII. Laboratory Assignment and Point Breakdown Sheet – Spring 2014

	ASSIGNMENTS	POINTS
1	*** NO LABS THIS FIRST WEEK OF SCHOOL, but you need to complete	
	the Lab 1: Prelab before coming to the first lab next week***	
	(Lab 1: Prelab Assignment in course pack from Target Copy)	
2	Science and Statistical Inference (Lab 1: Prelab)	/5
	Science and Statistical Inference (Lab 1: Lab Notes)	/10
3	**** NO LABS ****	
4	C-fern Reproduction (Lab 4: Prelab): Complete the Lab 4: Pre-lab Assignment in your	
	course pack before coming to lab.	/5
5	LAB PRACTICAL 1	/10
	Photosynthesis (Data): Use the data you collect in lab to complete the	
	Photosynthesis data sheet (pp. 99-100). Keep this to use to complete the postlab	
	activity and hand in with that assignment at the beginning of the next lab.	/15
	<b>Photosynthesis (Postlab):</b> Complete the postlab activity (p. 109) before coming to the	
	next lab.	/10
6	QUIZ 1	/10
U	C-fern Reproduction (Lab 4: Lab notes): Complete the Lab 4: Lab Notes in your	/10
	course pack.	/15
-	•	/15
7	Sensory Physiology (Lab 2: Prelab): Complete the sensory physiology prelab	/10
	assignment on pp. 77-80 of your lab manual before coming to lab.	/10
	LAB PRACTICAL 2	/10
	Sensory Physiology (Lab 2: Lab Notes): Complete the work sheet provided in lab.	/15
8	Fetal Pig (Lab 3, Part 1: Prelab): Complete the fetal pig prelab activity (pp. 53-54)	
	before lab.	/2
	QUIZ 2	/10
	Sexual Reproduction (Worksheet): Complete the work sheet on pp. 67-68.	/5
9	**** NO LABS ****	
10	Fetal Pig Surgery (Lab 3, Part 2: Lab Notes): Complete Lab 4, Part 2 Lab Notes in your	
	course pack.	/15
11	Spatial Relations (Prelab): Complete the prelab activities (pp. 191-192) before	
	coming to lab.	/10
	LAB PRACTICAL 3	/10
	<b>Spatial Relations (Data):</b> Prepare a statistical analysis and discussion of the results of	
	each of the three spatial tests (pp. 195-196).	/15
12	QUIZ 3	/10
	Population Ecology (Lab 5: Lab sheet): Complete the Lab 5 Lab Notes in your course	
	pack.	/5
	Species Interactions (Planning): Complete the planning exercise for your Species	,
	Interaction project on pp. 203-204.	/5
13	**** NO LABS ****	/3
14	Species Interactions (Prelab): Read the assigned news article and answer questions	/40
	(pp. 205-206) before coming to lab.	/10
	QUIZ 4	/10
	Species Interactions (Data Collection): Complete the datasheet provided by your TA.	/15
4 🗆	**** NO LABS ****	
15 16	*** NO LABS ****	

## XIII. BSC Laboratory Safety

Work in the Biology laboratory may expose students to **inherently dangerous activities**. Students in the BSC laboratories may be exposed to chemicals (e.g., formaldehyde, organic solvents, acids, and other caustic chemicals), chemical fumes, laboratory equipment and supplies (e.g., scalpels, razor blades, glass slides, coverslips, and electrical equipment), toxic or irritating properties of living and dead animals, and other materials necessary to laboratory activities. Other possible hazards include broken glass on the floor or counters, combustible materials, and slippery spills.

- 1. Smoking, eating, and drinking are expressly forbidden and NOT allowed in the laboratory.
- Locate the placement of safety equipment and supplies in the laboratory: safety shower, eye wash
  station, fire extinguisher, and first aid kit. Memorize these locations. You should understand the use of
  this equipment. Also note the locations of exits. Each laboratory has a chemical exposure manual. These
  include material safety data sheets on all hazardous chemicals or compounds to which you might be
  exposed in the BSC laboratory.
- 3. Students should follow instructions carefully, especially when hazardous conditions occur or hazardous materials are being used.
- 4. Students should dress appropriately in the lab. Gloves and protective aprons will be made available in the labs. Students may elect to supply their own gloves and protective aprons or laboratory coats. Only shoes that provide complete foot covering are allowed in the lab.
- 5. You should be familiar with fire procedures. Leave the building immediately should a major fire occur or if the fire alarm sounds. Notify the appropriate authorities -- don't assume someone else remembered to do it. Meet with other students and your instructor outside the building before leaving so that an accurate headcount may be made.
- 6. The safe use of specific equipment and tools (e.g., microscopes, slides, scalpels, and pipettes) will be demonstrated by the instructor during the laboratory sessions. Be sure you understand this usage and ask questions if you do not.
- 7. Never pipette by mouth. Always use a suction bulb or pipette aid.
- 8. Notify your T.A. IMMEDIATELY of any spills, breakages, or equipment malfunction.
- 9. Students should report all hazardous conditions to the instructor immediately.
- 10. All organisms, living or dead, should be treated with care and respect. Avoid direct handling when possible.
- 11. Students should clean up any supplies used and should return materials where they belong as instructed. Any material spilled should be cleaned appropriately. Report any hazardous spills or breakages.
- 12. Broken glass and sharp metal waste should be placed only in those receptacles marked for such disposal -- do not put these materials in normal trash receptacles.
- 13. Work areas must be left clean and dry prior to leaving the lab. Chemicals and reagents must be returned to their proper places.
- 14. You should always wash your hands before leaving the laboratory, even if you have not knowingly come in contact with any chemicals or biological fluids.