

Instructor: Dr. Carrie L. Monlux **Email:** clmonlux@csuchico.edu
Office: Plumas Hall 203A **Office Phone:** (530) 898-5753 or leave a message
Office Hours: Mon. & Wed. 9-10:50 am; and by appointment

Lab Instructor: Ms. Audrey Denney, adenney@csuchico.edu, office: (530) 898-4262, Plumas 231

Class Schedule: M/W 8:00 am – 8:50 am, PAC 144 (*food & drinks are NOT allowed in classrooms*)

Lab Sections: All labs are held at the University Farm in the FARM 001 classroom & garden, rain or shine

Lab Section No.	Day / Time	Lab Instructor	Classroom at the University Farm	Course Reg. No.
02	M 11:00 – 1:50 pm	Monlux	FARM 001	1214
03	M 2:00 – 4:50 pm	Monlux	FARM 001	1217
04	T 11:00 – 1:50 pm	Denney	FARM 001	1271
05	T 2:00 – 4:50 pm	Denney	FARM 001	1220
06	W 11:00 – 1:50 pm	Monlux	FARM 001	1226
07	W 2:00 – 4:50 pm	Monlux	FARM 001	1223

Drop Date: The last day to drop this class through the Portal is Friday, February 3, 2012

Finals Schedule: Friday, May 18, 2012 from 8:00 am - 9:50 am, PAC 144

Required Texts:

1. Hands-On Hortscience: Practical Investigations & Experimental Designs in Agriculture and Biology, by C.L. Whitcher Monlux – BMU Bookstore (ISBN: 978-0-7575-5296-0)
2. Horticulture Science and Practices Lecture Supplement, by D.W. Reed – BMU Bookstore or on Vista Blackboard class homepage to download (Learning Modules for PDFs)
3. General Horticulture Laboratory Manual, by D.W. Reed – BMU Bookstore
4. Vista Blackboard handouts (including but not limited to: lab handouts, PPT slides, journal articles, other class assignments)

Recommended Text: *Stern's Introductory Plant Biology* text, 12th ed., by J.E. Bidlack & S.H. Jansky

Required Materials:

- (4) new Scantron forms (form 882)
- pens/pencils/highlighters/notebook/black Sharpie/ruler
- copy or printing charges for printing papers from Vista Blackboard
- a REAL (non-cell phone) calculator
- access to a stapler and a digital camera
- access to word-processing and spreadsheet software (e.g., MS Word and Excel) on a laptop computer is highly recommended
- (6) large paper or plastic grocery bags or reusable cloth bags for garden harvest
- (3) wire ties and small grocery store vegetable bags
- a clipboard & backup computer hardware (e.g., USB memory stick/flash drive)
- drinking water & outdoor weather gear (sunscreen, hat, raincoat & waterproof boots or shoes)

Required Vista Blackboard Use: For computing and Vista Blackboard assistance, go to <http://www.csuchico.edu/itss/index.shtml> for help. It is vital that you know where course materials and weekly online reading quizzes are located on our Vista Blackboard homepage and that you check Vista Blackboard daily or several times/week.

Course Content: This course is designed to present scientific principles and their associated practical applications found in commercial agriculture. Plant biology and environmental relationships controlled by humans will be emphasized as well as how plant growth and production are affected.

Each student will have his or her own garden plot at the CSU, Chico Agriculture Teaching and Research Center (the University Farm). Each student will work both individually and in groups growing experimental plants in garden and greenhouse environments. Students will take all of the vegetables, flowers, and plants they have grown home during the course of the semester.

There is a garden component to this course and you will get dirty! Pay attention to the weather and course requirements. There are a lot of outdoor activities throughout the semester so plan ahead for cold/wet conditions.

Course grading: Due to privacy concerns, grades will only be discussed in person between the instructor and the student, (not through email or by phone). Grades are earned on accuracy and quality of the final product, not effort. Some students need to put more effort to learning the material, some less. Experience and previous knowledge all affect students' grades. *Trying hard is not equivalent to learning or mastering the material. Students who wish to earn credit/no credit must earn a minimum of 70% or more of the course work to earn credit. Earning <70% will earn no credit.*

Lab Quizzes (10@10 pts.)	100 pts possible
Lab Assignments	100 pts possible
Lab Attendance & Participation	100 pts possible
Garden Project & Reports	100 pts possible
Research Lab Report	100 pts possible
Exams, (best 2 out of 3@100 pts.)	200 pts possible
Final Exam	100 pts possible

Total: 800 points

Grade Scale:

A ≥ 93%	B ≥ 83%	C ≥ 73%	D ≥ 60%
A- ≥ 90%	B- ≥ 80%	C- ≥ 70%	F < 60%
B+ ≥ 87%	C+ ≥ 77%	D+ ≥ 67%	-----

Remember, students earn grades, teachers merely assign them so do your best at all times. The instructor uses Excel software to calculate grades to tenth of a percent, not to whole numbers.

Course Goals and Objectives (students will):

1. Learn to think critically about science and scientific research.
2. Identify the differences between real science and pseudoscience.
3. Describe the flow of genetic information, the chromosome theory of heredity and the relationship between genetics and evolutionary theory.
4. Evaluate the principles of evolutionary biology and identify the taxonomy and phylogenetic relationships of the major groups of organisms.
5. Recognize the ecological relationships between organisms and their environment and the challenges caused by intensifying food production to feed increasing populations.
6. Identify agricultural practices that maximize plant structure and function.
7. Learn how plants take in water, nutrients and create carbohydrates through photosynthesis.
8. Describe how plants reproduce, utilize basic resources necessary for food production (land, soil, water, nutrients, and energy) and compete against pests.
9. Understand and perform basic agricultural procedures safely.
10. Organize, plan, and design an agriscience research experiment; interpret data and analyze the results.
11. Analyze the differences and consequences of food habits cross-culturally
12. Contextualize agricultural issues within global trends

Course Requirements and Student Responsibilities:
Attendance, Assignments and Class Requirements

Student Responsibilities (or, how to succeed in this class and college in general):

- Realize you are preparing for your future. Your attitude and effort will carry you further than your academic abilities. Know that all 3 of these combined (attitude, effort, ability) will define the individual you will become. Your professors are only here to guide you; it's up to **you** to learn the course material.
- **Read and follow directions. You have a syllabus which has due dates, use it.**
- **Attend both the lecture and the lab. The instructors have little patience for absenteeism.**
- *It is each student's responsibility to be aware of exam dates, assignment due dates, grades, etc.*
- Missing class or lab does not relieve the student of his/her educational responsibilities and **late work is not accepted for any reason.** Personal tragedy cannot be redeemed for course credit (see the CSUC catalog for information).
- The instructor will not repeat missed lectures so if you skip class, get with some classmates to get any lecture information you may have missed. Ask the instructor your specific questions about a missed lecture after you have studied the material provided to you by a classmate.
- Treat all communications with the instructor as a professional business exchange that includes salutations and signatures. Emails that are not professionally composed (i.e., use textpeak) or ask questions that can be answered from reading the syllabus will not be returned and answered.
- The signed acknowledgment signature page (last page of this syllabus) will be signed by each student and returned to the instructor prior to the first exam. If you cannot meet the requirements of this class, find another course that better suits your needs. If a student does not have this signature sheet on file with the instructor, the student will not be allowed to take any of the exams. Know the expectations of this class, there are a lot of requirements since it is a general education Area B2 life science course.
- **Plan on spending approximately 3 hours of study time outside of class for each hour of lecture time.** This is average; some weeks will have more requirements, some less. Be prepared to study, work hard, and have an open mind. Welcome to the culture and way of life of the University!
- **If you have a disability that requires special accommodations, you must contact a counselor at Disability Support Services, University Center, (530) 898-5959. In addition, please let me know as soon as possible and I will work with you to receive services. It is the student's responsibility to submit all DSS requests to the DSS office in a timely manner. No exceptions will be made for late submissions/requests.**

Attendance:

- Although lecture attendance may be taken, it is not mandatory. Past history has shown that students who attend both lecture and lab perform much better on class exams and assignments.
- Laboratory attendance and participation are mandatory. Lab attendance will be determined by the total number of lab meetings. These will be divided into the attendance point total (100) to give a value for each lab. A late arrival and/or early departure from lab will count as an absence. Students may attend another PSSC 101 lab section **only with prior permission from BOTH instructors through Vista Blackboard email and must have a documented reason (see CSUC catalog).** Taking an extra-long weekend or failing to complete homework assignments are NOT reasons to attend a later lab, so don't ask.
- **Bring your garden plot map and syllabus to each lecture and lab meeting, you will need them!**
- Labs are held at the University Farm on Hegan Lane, south of Chico, and start promptly at 15 minutes past the hour. You must arrange for your own transportation to get there (car pool with your garden neighbors!) Biking takes about 30-35 minutes. Labs are almost always held outdoors and in the greenhouse. Wear appropriate clothing and footwear (NO bare feet are allowed and closed-toed, waterproof shoes are HIGHLY recommended).

- Students who do not help clean up at the end of each weekly lab (to the satisfaction of the instructor) will have 10 points deducted from that week's reading quiz grade.
- Students who do not clear their area of the garden (to the satisfaction of the instructor) at the end of the semester will have 50 points deducted from their overall grade, in addition to losing 100 points from the garden portion of the final grade. Garden harvest is the final grading component of the garden grade.

Assignments & Class Requirements:

- **Late assignments will not be accepted for any reason. Due dates are on both the syllabus and are announced on Vista Blackboard.**
- Homework will only be collected at the beginning of YOUR lab section. No assignments will be accepted after this time. If you cannot attend lab, you may submit your time/date-stamped homework to your lab instructor's faculty mailbox in Plumas Hall, room 317 by the beginning time of your lab on your regularly-scheduled lab date. Late work will be returned ungraded.
- Students are required to keep all evaluated work until final grades have been submitted, or they will have no evidence in case there is a problem with their final grade (i.e., missing scores).
- Approximately 14 reading quizzes will be administered on Vista Blackboard. The 4 lowest quiz scores will be dropped and the remaining 10 will count toward the quiz grade. A missed quiz will receive a score of 0. *There will be no makeup or excused quizzes for any reason.* Vista Blackboard quizzes are open note and open internet. Vista Blackboard quizzes will end (be turned off) each Monday at 8 am.
- Exams will be given as paper/pencil exams in lecture and students need to provide their own Scantron forms. A missed exam will receive a score of 0 points unless there is evidence of a serious and compelling reason as per CSUC guidelines (see the CSUC catalog). **Once the first student has completed and submitted the Scantron to the instructor and has left the room with the exam booklet, no one will be allowed to enter the class and take the exam.**
- The instructor reserves the right to ask students to remove hats and "hoodies" during class, including exams, verifying no earpieces are being worn.
- Makeup exams will only be allowed for an excused absence (see the CSUC catalog).
- **The final exam will only be given on the assigned final exam date (which is Friday). No early/late exams will be given so be aware of this when making travel plans and scheduling other final exams.**
- All written assignments (other than weekly reading quizzes and textbook lab papers) must be submitted to the instructor **double-spaced, word-processed with black ink, hard copy printed on new, white paper, and stapled.** **Papers will only be accepted when word-processed in black ink, double-spaced, in 12 pt. Times New Roman font.** Hand-written lab assignments will only be accepted when printed with dark blue or black ink or lead pencil. Reading quizzes are the only assignments that will be submitted electronically to Blackboard, but the instructor reserves the right to have students submit their work to Turnitin.com.
- **Papers that are not stapled together with the student's full name and CORRECT lab section number at the top with required spacing, ink color, font type and font size will NOT be accepted/graded and will earn 0 points.**
- The writing assignment (lab report) will be based on data collected from a research project completed by the entire class. The purpose of this assignment is to develop skills in critical thinking, writing, experimental design, literature review, data collection, statistical analysis, and data interpretation in the agricultural sciences.
- Students will follow the citation format of the Journal of the American Society for Horticultural Sciences (ASHS) for all written assignments. This is the only format allowed (not MLA, APA or other formats).
- It is the student's responsibility to keep backup copies of all written assignments (i.e., flash drives). Assignments lost from "computer crashes" are not a valid reason for turning in late work. Late work is not accepted for any reason so back up your work often. *It's not a matter of if but when: hard drives fail.*

- **You are encouraged to discuss homework problems with others but need to produce an assignment that is a result of your own independent effort.**
- If there is evidence that you have been involved in any form of academic dishonesty, including “working together” on a homework assignment, you will receive an “F” grade for the assignment (0 points) and be reported to the Office of Student Judicial Affairs. A report will be placed in your file. A second violation will result in the student earning an “F” grade in the course. This includes cheating on exams, plagiarism, and unauthorized collaboration.
- *Read the CSUC PDF articles on cheating, plagiarism, and unauthorized collaboration on the class Vista Blackboard Learning Module.*

Expected Student Behavior in the Classroom

- All students have the right and privilege to learn in class, free from harassment and disruption. Inappropriate or disruptive behavior will not be tolerated, nor will lewd or foul language. Disruptive students will be dismissed from class for the remainder of the day with no make up work allowed. The student will need to meet with the instructor about correcting her/his behavior prior to returning to class.
- Out of concern for student safety, only certified service animals that are required for use by the student are allowed in the lab. No animals-in-training are allowed in lab.
- Cell phones, iPods, iPhone, Droid, BlackJack, Treo, BlackBerry, EVO, Kindle, MP3 players, Walkmans (for the few of us who still have them), and all other electronic devices and earpieces (with the exception of calculators and educationally-approved assistance devices [tablets or translational dictionaries]) must be turned off and put away during class. **Respect your fellow students and turn your phone off!**
- *Students who receive a phone call or use a cell phone (e.g., emailing, browsing, talking or texting) will be dismissed from class or lab for the remainder of the day with no make up work allowed. If this is during an exam, the student will be immediately dismissed and will earn a 0 grade on the exam.*
- Students are expected to pay attention to and participate in all class meetings. Reading other materials (e.g., other class materials, cell phones, laptops or tablets, newspapers, magazines) during class will be grounds for dismissal from class for the remainder of the day with no make up work allowed.
- **To guard against cheating and create an even playing field, only regular, hand-held calculators are allowed for in-class use. No cell phone/tablet calculators will be allowed on in-class exams.**
- Students are to remain in class during the entire session with the exception of breaks or medical necessity. Students are not allowed to come and go during the class session. Any student who leaves lab early will receive a zero (0) on that week’s lab attendance and participation points.
- All class participants are expected to exhibit respectful behavior to other students, staff, the instructors, and any class visitors.
- Tobacco, alcohol and drug use are not allowed in lecture or lab.
- The University Farm is a working farm with heavy equipment, livestock, and lots of activities occurring daily. Obey speed limit signs and be careful when driving, following the CA rules of the road (e.g., no riding in the back of pickup trucks or on tailgates, no popping wheelies or spinning doughnuts!)
- Almost all of our labs will be held outside so consider bringing the following items: **drinking water**, your lunch or a snack, a clipboard, hat, work boots, garden kneeling mat, etc. Consider wearing jeans and bringing a change of dry clothes (muddy shoes and wet socks occur frequently!) For your particular semester (fall or spring), add rain gear and waterproof boots and sunscreen and sunglasses to your list.

The class follows the standards set in the *Code of Students Rights and Responsibilities (Executive Memorandum, EM 96-38)* and students are subject to disciplinary action for violation of that code.

Academic Conduct, Rigor, and Appealing Grades:

If a student feels an error in grading has been made, the student has one week from the time of the assignment is returned to them (or the grade is posted on Vista Blackboard, whichever is later) to request a review of the grade. A written request attached to the original assignment must include a specific statement as to what is in error, how it should be corrected, and what supporting evidence is available. The entire assignment will be re-graded during the review by the lecture instructor.

Academic rigor consists of dedication on the part of students and faculty to the pursuit of academic excellence, including discipline of mind and disciplined behavior, intellectual honesty, decorum and civility. It is exemplified by the attainment of the highest standards as defined by and in each discipline. It also includes transmitting, sustaining, evaluating, and enhancing the continuity of recognized intellectual achievements in each discipline. **A passion for learning and high expectations should pervade the atmosphere of the University.** The quality of education and the degrees and certificates offered by the University will only have value insofar as the administration, faculty, and students view themselves as custodians of the University's reputation.

Expectations of Students

From **EM 04-36, Policy on Academic Integrity and the Establishment of the Council for Promoting Academic Integrity**, the following expectations for all students will be required. An effective education is vigorous, demanding, deeply satisfying and requires behavior conducive to achieving excellence. College is a fundamental asset in building a student's character, citizenship, and employment future. Learning how to learn and utilize information is vital in today's challenging job market. **REMEMBER: *Everyone has the same opportunity to get an education, what YOU do with it sets you apart from the rest of the pack.***

Rigorous students:

- set high personal standards, develop a strong sense of purpose, come to class well-prepared, and complete assignments on time;
- make the most of faculty advising and mentoring;
- treat fellow students and the classroom environment with complete respect; give each class full attention and participation; do not miss class, arrive late, or leave early;
- accept responsibility for learning and grades earned;
- approach each class in a professional manner;
- recognize that a full course load is equivalent to full time work and spend no less time on it;
- carefully put time into class assignments and work to improve study habits and editing skills;
- demonstrate complete honesty and integrity.

Altering Course Status

Students are responsible for handling the necessary paperwork for adding or dropping this class. University guidelines for dropping classes are strictly adhered to. Requesting "No Grade of Record" (NGR), alterations in Credit/No-Credit status or withdrawing from the course is the student's responsibility, as is attending to the necessary paperwork and timelines except where required of the instructor by university policy.

If student does not withdraw, and does not attend class or complete required work, an “F” or “UW” will be reported for their grade. Instructors may drop a student or issue a “W” for those students who do not attend the first two classes but students should never assume that instructors automatically drop students from their class. After the 4th week of instruction, withdrawal (W) is permitted only for extenuating circumstances, see the CSUC catalog.

Please be aware that “biting off more than you can chew” by enrolling in too many units, working too much at your place of employment, etc. are NOT valid reasons to withdraw from the course after the deadline has passed.

Requesting an Incomplete (“I”): A student must have a passing grade at the time they request an incomplete from the instructor, who at their discretion may or may not award and incomplete as the grade. If it is awarded, the student must complete all remaining coursework in the following semester. An incomplete is not given because a student is unable or unwilling to keep pace with the requirements of a course.

Adding this Class: For students not currently enrolled in this class, for the first two weeks of class students may continue to enroll in open classes without an add authorization number through the Portal registration. For safety reasons, no more than 30 students will be enrolled in each lab section; please do not ask to trade lab sections that would impact this number.

Course Outline

See attached lecture outline on the following page*. **You will find a garden plot map that you will need to bring with you to each lab meeting.**

The assigned reading and reading quiz should be completed for the weekly material listed on the course outline. The lecture discussion material will make more sense if you already have an understanding of the topic being discussed so plan on studying the material and taking each quiz seriously.

Hint: have your notes, textbook, and a web browser open when taking each quiz. The purpose of the reading quizzes is to reinforce class concepts and give you an opportunity to practice developing good study habits and research techniques. The point of your collegiate education (in general) is learning how to learn and learning how to be a good problem solver. Anyone can look up information on Google but knowing what to do with it once you have it will determine your success.

****Disclaimer: due to weather and other situations beyond the instructor’s control, she reserves the right to alter lab dates, assignments, and other course activities in this syllabus as the need arises.*** Please check the course Vista Blackboard announcements and email daily to keep up with class requirements and receive information about upcoming activities and extra credit opportunities. It is the student’s responsibility to have the current syllabus.

Week	Date	PSSC 101 Lecture Topic	Reading: Lecture Supplement	Vista Bb Quiz:
1	Jan. 23	Intro, Syllabus, Plant Science	Vista Bb website & syllabus	Quiz 1 (wk 1 & wk 2 material)
	Jan. 25	Plant Cells and Genetics	pp. 1-7	
How Do Plants Grow?				
2	Jan. 30	Cells, DNA, Transcription	Vista Blackboard PPT #1	Quiz 2 (week 3 material)
	Feb. 1	Plant Cells - Mitosis	Vista Blackboard PPT #2	
3	Feb. 6	Plant Cells - Meiosis	Vista Blackboard PPT #3	Quiz 3 (wk 4 material)
	Feb. 8	Plant Cells - Meiosis	Vista Blackboard PPT #3	
4	Feb. 13	Sexual Propagation	pp. 81-83	Quiz 4 (wk 5 material)
	Feb. 15	Asexual Propagation, Pt. 1	pp. 85-86	
5	Feb. 20	Plant Anatomy & Morphology	pp. 8-11	Quiz 5 (wk 6 material)
	Feb. 22	Plant Development	pp. 12-16	
6	Feb. 27	Flower & Fruit Development	pp. 17-20	Quiz 6 (wk 7 material)
	Feb. 29	EXAM 1 in lecture	Study & review!	
How Do Plants Utilize Energy?				
7	Mar. 5	Photosynthesis	pp. 21-26	Quiz 7 (wk 8 material)
	Mar. 7	Respiration	pp. 27-29	
8	Mar. 12	Plant Hormones	pp. 30-32	Quiz 8 (wk 9 material)
	Mar. 14	Temperature and Energy	pp. 33-38	
Spring Break March 19-23, don't forget to take the quiz!				
9	Mar. 26	Temperature Effects on Plants	pp. 39-44	Quiz 9 (wk 10 material)
	Mar. 28	Dormancy and Rest	pp. 45-49, 84	
10	April 2	Properties of Light	pp. 50-57	Quiz 10 (wk 11 material)
	April 4	Photoperiod Response	pp. 58-59	
11	April 9	EXAM 2 in lecture	Study & review!	Quiz 11 (wk 12 material)
	April 11	Plants and Water	pp. 60-66	
What Do Plants "Eat"?				
12	April 16	Soil and Plant Nutrition	pp. 67-70	Quiz 12 (wk 13 material)
	April 18	Growing Media and Fertilizers	pp. 71-73	
13	April 23	Fertilizers and Analyses	pp. 74-78	Quiz 13 (wk 14 material)
	April 25	Nitrogen Cycle	pp. 79-80	
How Do Plants Reproduce and Mature?				
14	April 30	Asexual Propagation	pp. 85-93	Quiz 14 (wk 15 material)
	May 2	Pruning and Growth Control	pp. 94-96	
15	May 7	Pests & Pest Control	pp. 97-100	Study for final exam!
	May 9	EXAM 3 in lecture	Review & study!	
16	May 18	Final Exam in PAC 144	8-9:50 am in lecture	

Lab Activities (read Hort lab manual and HOH text prior to lab):

Week:	Dates:	What we're doing in lab this week:	What's due in lab:
1	Jan. 23-25, 2012	Lab 1- Orientation to Lab Lab 13 – Overview of Vegetables, Fruits & Ornamentals; plant plug trays, select garden plots	1) Bring your garden plot map (in syllabus) 2) Show up to work in garden plots (wear work clothes)
2	Jan. 30- Feb. 1	Lab 2 – Recognition of Plant Structures Continue ground prep, plant seeds & vegetable transplants in garden, install irrigation lines	HOH Exercises 2-1 & 2-2 -Syllabus verification signature sheet (last page)
3	Feb. 6-8	Lab 3 – Plant Identification and Taxonomy Plant plug trays, plant seeds/potatoes; weed ID	HOH Exercise 1-1 and 3-1 -Syllabus verification signature sheet (last page)
4	Feb. 13-15	Lab 4 – Temperature Lab 9 – Sexual (Seed) Propagation Plant seeds, potatoes & vegetable transplants in garden	HOH Exercise 4-1 and HOH Exercise 6-1
5	Feb. 20-22	Q & A: Evolution and Genetics Lab – bring handout from Bb Start Bt experiment, weed garden Plant vegetable transplants, thin seedlings	Read & Review HOH Exercise 7-1 Introduction & Objectives and HOH Exercise 7-4 Literature Citations
6	Feb. 27-29	Lab 5 – Light Lab HOH Chapter 5 - Experimental design Lego crops Continue Bt experiment, weed garden, plant vegetable transplants, thin carrots & other seedlings	Read & Review HOH Exercise 7-2 Materials & Methods paper and complete first page of HOH Exercise 5-1
7	March 5-7	Lab 6 – Growth Control Bt experiment, weed garden	
8	March 12-14	Set up Lab 10 & 10-3 – Nutrition & Fertilizers, Hydroponics; Fertilizer homework Continue Bt experiment, weed garden	Read & Review HOH Exercise 7-3 Results & Discussion and HOH Exercise 7-5 Title & Abstract
Spring Break March 19-23, 2012			
9	March 26-28	Lab 7 – Growing Media (Amendments) & Soils Continue application of Bt experiment each week until harvest, weed garden	
10	April 2-4	Lab 8 - Asexual (Vegetative) Propagation Continue application of Bt experiment each week until harvest, weed garden; collect data Labs 4, 9 & 10	
11	April 9-11	Continue application of Bt experiment each week until harvest, weed garden	Labs 5 & 6 data sheets & questions
12	April 16-18	Continue application of Bt, weed garden, collect data	Lab 4 & 9 data & questions
13	April 23-25	Lab 12 – Care of Landscape Plants & Fruit Trees Lab 14 – Overview of Turfgrasses Continue application of Bt, weed garden, collect data	**Research Reports are DUE this week in lab Lab 10 data sheets & questions
14	April 30- May 2	Lab 11 – Pest Identification & Control Start final harvest, finish lab data collection	Lab 7 data sheets & questions
15	May 7-9	LAST LAB: Finish harvest, clear garden plots	Lab 8 data sheets & questions **Clear garden plots
16	May 14-18	FINALS WEEK – no labs, study for final exam!	-----

PSSC 101 Garden Plot Orientation^z



X = vegetable transplant (e.g., 2 cabbage plants, 2 tomato plants, 6 broccoli plants, etc.)

Bring your garden plot map each week since you will need it to plant seeds, record data, and identify your garden crops.

Cabbage X (No Bt)	Potatoes ^y (4 pcs.) X X X X		Kohlrabi X (Bt)	Cilantro Seeds	Radish Seeds	Broccoli X X X (No Mulch)	Your Free Garden Space! ^w
	Sugar Snap Peas ^x (21 seeds/student; 3 rows of 7 seeds)			Onion Seeds	Tomato X (W-O-W)		
Kohlrabi X (No Bt)	Pepper / Basil	Lettuce / Pac choi	Cabbage X (Bt)	Spinach Seeds	Tomato	Cauliflower X X X (Mulch)	Your Free Garden Space! ^w
	X X	X X X		Cosmos Seeds	X (No W-O-W)		
	X X	X X X		Beet Seeds	Radish Seeds		
	X X						

^zNote: Map is not drawn to scale

^yPotatoes: You will quarter your potato and the quartered sections will be planted into a row, approximately 3" deep and 6" apart

^x Peas: Each lab section will compare flower and fruit numbers plus amount of *Rhizobia sp.* on roots (at the end of the semester)

^w Free space vegetables and flowers are provided and may include carrots, mustard, leeks, Swiss chard, soybeans, corn and flowers

SIGNATURE VERIFICATION OF UNDERSTANDING OF COURSE POLICIES

Please return this page to your lab instructor by the end of the 3rd week of classes.

The following signature verifies that the enrolled student listed below in PSSC 101 for the spring 2012 semester has read, understands, and agrees to abide by the class policies and University rules, and acknowledges the assignment due dates as mentioned in this syllabus and course outline. The student agrees that it is in the best interest of the class and for safety reasons to follow the class and laboratory rules at all times and will report any accident or illness that occurs in class, no matter how slight, to the lab instructor immediately.

Name (printed)

Signature (in black or dark blue ink only)

Lab Section Number

Date