PROFESSOR: Dr. Brian A. Kahn  
355-A Agricultural Hall  
405-744-7585  
E-mail: brian.kahn@okstate.edu

Dr. Kahn will typically respond to an e-mail within 24 hours, exclusive of weekends.

TEACHING ASST.: Dr. Lane Greer  
103 Agriculture North  
405-744-5424  
E-mail: lane.greer@okstate.edu

TECH SUPPORT: IT Help Desk 405-744-4357  
OSU Online Classroom (http://oc.okstate.edu)

OFFICE HOURS: Wednesdays, 1:00-3:30 p.m. Dr. Kahn will gladly make appointments for other times. In addition, Dr. Kahn encourages interaction during the laboratory periods.

**SECTION 503 ONLINE LEARNER INFORMATION:** Online learners are encouraged to talk with Dr. Kahn via e-mail for text-based messaging or by phone. **FULLY ONLINE LEARNERS (lecture AND LAB) ARE EXPECTED TO COMMUNICATE WITH DR. KAHN VIA E-MAIL AT LEAST ONE TIME EACH WEEK.** Dr. Kahn typically replies to e-mails within 24 hours on weekdays 8:30 AM – 5:00 PM CT. When possible, Dr. Kahn may also respond to e-mails on weekends.

EQUIPMENT: Required for section 503 fully online learners (doing lecture and lab at a distance):

**SECTION 503 ONLINE LEARNER INFORMATION:** Fully online learners will need a digital camera for submitting photos of their experiments.


This is the first year that the 5th edition is being used. Reading assignments on the course schedule have been updated. However, the PowerPoint slides may refer to the old chapter numbers. If in doubt, follow the course schedule.

REFERENCES: Horticulture Extension Fact Sheets and Current Reports, available on the WWW at http://pods.dasnr.okstate.edu/docushare/dsweb/HomePage

GENERAL EDUCATION CRITERIA & GOALS:

**Natural Sciences (N)**

**CRITERIA:**

—Courses designated “N” feature the systematic study of natural processes and the mechanisms and consequences of human intervention in those processes.

—Courses designated “N” place primary emphasis on the subject matter of one or more basic physical or biological sciences in a broadly integrative fashion.

**GOALS:**

—Students will understand the scientific inquiry process.
—Students will critically analyze the physical world using the language and concepts of science.
—Students will use the methodologies and models of science to select, define, solve, and evaluate problems in biological and physical sciences.
—Students will evaluate evidence, interpretations, results, and solutions related to the physical and biological sciences.
—Students will understand the consequences of human intervention in natural processes and mechanisms.
—Students will demonstrate their understanding through written work appropriate to the discipline that provides them the opportunity to enhance their writing skills.

Scientific Investigation (L)

CRITERIA:
—Courses designated “L” must include the equivalent of at least one semester credit hour of laboratory experience aimed at interpreting scientific hypotheses.
—Courses designated “L” emphasize scientific inquiry and experimental methodology.

GOALS:
—Students will critically analyze scientific problems, formulate hypotheses, conduct appropriate experiments, and interpret results.
—Students will solve problems using scientific inquiry and experimental methodology.
—Students will communicate procedures, results and conclusions to others.
—Students will demonstrate their understanding through written work appropriate to the discipline that provides them the opportunity to enhance their writing skills.

OBJECTIVES:
—to develop an understanding of the physical and physiological processes that are responsible for plant reproduction, dormancy, growth, flowering, fruiting, and senescence
—to formulate hypotheses about the effect(s) of human intervention on these processes
—to design, conduct, and analyze horticultural research on these processes
—to interpret research data graphically and in writing
—to report on the class lab experiments orally and in writing

FORMAT:
The theory portion of the class will be offered as in-depth discussions twice a week. Each week we will discuss a theme, based on one or more chapters in the textbook and/or associated PowerPoint presentations.

Prior to coming to the theory discussion session, each student is required:

1. to read the assigned chapter(s) in the textbook, and
2. to print the respective section of the Theory Notebook.

SECTION 503 ONLINE LEARNER INFORMATION: Online learners should complete the above steps before viewing PowerPoint-synchronized video of the theory discussion.

In addition, it is strongly recommended that each student distill the main points of the reading assignment into one page of notes in his/her own words.

Guest lecturers will provide insight into current research, industry production, and social and global perspectives, associated with various commodities and/or commodity groups.
The lab portion of the class will consist of experiments and commodity tours, designed to exemplify the weeks’ themes. Labs will meet in the Teaching Greenhouses on Farm Road (south side of the Colvin Center) unless otherwise specified. Students are expected to “car/truck pool” to the tour sites. Don’t be tardy, or you risk being left behind.

Four lab experiments will be conducted during the semester; each will be performed by Research Teams. Research Team-based discussion groups are available via the HORT 1013 OSU Online Classroom.

SECTION 503 ONLINE LEARNER INFORMATION: Fully online learners will conduct the experiments at home, using the supplied “labs in a box.” They should view any available streaming video of the on-campus lab before conducting the experiment.

Online learners also will be assigned to the above discussion groups. They are encouraged to post and respond to questions with their on-campus teammates.

IMPORTANT NOTE: The PowerPoint presentations and the Theory Notebook posted on the Online Classroom website are the current standards for the course. Dr. Needham is still featured on many videos. Video discussions of study guide questions, when available, feature Dr. Needham, and areas emphasized may differ from those in the current class. Laboratory procedures have not changed as much, although some of the species now being used may differ from those demonstrated by Dr. Needham. If in doubt, the lab hand-outs provide detailed, current information, and you’re always welcome to ask Dr. Kahn or Dr. Greer.

ATTENDANCE AND EXPECTATIONS:

Participation in all scheduled class activities is expected. Absenteeism and/or non-participation not only preclude a student’s learning the material in this course, but also will likely affect his/her performance. Each student is expected to take responsibility and initiative to be a contributing member to his/her Research Team. Students are responsible for providing instructors with documentation from the Student Health Center or another medical facility if their physician recommends an extended class absence due to influenza or other communicable diseases. Written documentation of an extended illness or an emergency situation is mandatory if an exam (including an analytical essay lab exam) is missed.

Attendance in laboratories is required and will be taken in class. Twenty (20) points will be awarded if a student attends and participates in at least 12 of the 15 laboratory sessions. Otherwise, a laboratory attendance grade of zero (0) will be recorded. Note that even an excused absence counts as a missed laboratory session. This policy also applies to online learners who are taking the laboratory on campus. Any exception to this policy (for example, in the case of a serious medical condition resulting in multiple laboratory absences) will require a face-to-face conference between the student, his/her academic advisor, and Dr. Kahn, and may result in a grade of “Incomplete” (I) for the course.
SECTION 503 ONLINE LEARNER INFORMATION: Online learners are expected to participate in synchrony with the course schedule and to meet all deadlines for submission of assignments, quizzes, and exams. Fully online learners are expected to communicate with Dr. Kahn via e-mail at least one time each week. If these expectations are met, twenty (20) points will be awarded; otherwise, a participation grade of zero (0) will be recorded. Any exceptions will be governed by the same policy listed above for resident learners who physically attend laboratories.

QUIZZES & EXAMS: Quizzes and exams will consist of fill-in-the-blank, short answer essay, multiple choice, matching, true/false, problem solving, etc., covering the textbook, theory discussion sessions, lab experiences, and commodity tours. The questions are randomly selected from a question database, thus each student’s quiz/exam is potentially different from another, although covering the same concepts. The use of notes, textbooks, etc. is permitted on quizzes; however, it is not permitted on exams.

If other required academic activity precludes a student’s taking a quiz or exam, the quiz or exam may be taken at full value prior to its scheduled time as shown on the Course Schedule; however, arrangements for taking the quiz or exam must be made in person with Dr. Kahn at least one week prior to the quiz’s or exam’s scheduled time as shown on the Course Schedule, and a letter from the advisor or professor of the conflicting activity must be presented at that time. Failure to make prior arrangements for an early quiz or exam or failure to take a quiz or exam during its normally scheduled time will result in a score of “zero.”

Each quiz must be taken via the HORT 1013 OSU Online Classroom during the period indicated in the “Course Schedule.” Each quiz is available only during the time in which it is listed on the “Course Schedule,” and each quiz may be taken for credit only once (first attempt). Students are specifically urged to take each quiz early during its period of availability rather than waiting until the final day. Each quiz is available for six (6) full days, so there should be no expectation of a make-up. In the rare event that an electronic problem interferes with submission of a quiz, students must contact Dr. Kahn via e-mail within 24 hours of the incident. In these cases, requests for a quiz reset will not be honored if the problem occurs after 8:00 a.m. on the last day that a quiz is available. This is yet another reason not to wait until the final day to attempt a quiz.

Quizzes must be accessed via the Respondus Lockdown Browser, but may be taken from any computer with internet access, including one’s home computer. (If you choose to use a non-OSU computer, it is your responsibility to confirm that it is properly configured to operate in the OSU Online Classroom environment. Click on the “System Check” link at the bottom of the OSU Online Classroom log-in screen.) Each quiz is timed and will automatically quit at 5 minutes. Be aware that the Online Classroom gives the instructor a record when a quiz is submitted after the timed grace period. No answer can be saved once the time allotment expires. If an answer has not been saved when time expires, it will not, and cannot, be saved.

Two exams and one cumulative final exam will be administered during the semester via the HORT 1013 OSU Online Classroom. Each exam must be taken during the time and at the location indicated on the Course Schedule. Each exam is timed and will automatically quit at 50 minutes (100 minutes for the final exam). No answers may be submitted once the time allotment expires.
SECTION 503 ONLINE LEARNER INFORMATION: Online learners, also, will take the exams via the HORT1013 OSU Online Classroom. Exams will be available beginning on the date of the on-campus version and will remain available for 48 hours. An exam must be completed within one 50-minute session (100 minutes for the final exam). Exams may be taken at the OSU Testing Center, or equivalent at a nearby college/university. Contact Dr. Kahn to make appropriate arrangements.

Four in-class writing assignments, presented as Analytical Essay Exams over each of the lab experiments, will be completed in labs as indicated on the Course Schedule. A well-written analytical essay about the experiment depends on the student’s participation in lab. Each in-class writing assignment will consist of several thought-provoking questions about a given lab experiment, for which each student will have 45 minutes in lab to interpret the data and, then, to express his or her understanding about the experiment graphically and in essay fashion. The essay is an individual activity, and each person shall write the essay without consultation with his or her classmates. Analytical Essay Exams will be evaluated in part based on the “HORT1013 Rubric for Evaluating Students’ Writing Assignments.” Each subsequent writing assignment will build on the skills acquired from the previous, and enable each student to improve his or her writing over the semester.

SECTION 503 ONLINE LEARNER INFORMATION: Online learners who are taking the laboratory on campus must take their Analytical Essay exams in lab at the same time as the resident learners. Fully online learners will complete hard copies of their Analytical Essay Exams at the OSU Testing Center, or equivalent at a nearby college/university. Analytical Essay Exams will be available beginning on the date of the on-campus version and will remain available for 48 hours. Essays must be completed within one 45-minute session. Contact Dr. Kahn to make appropriate arrangements.

The OSU testing facilities utilize video surveillance to ensure academic integrity, and testing will be monitored. If video surveillance indicates that a student has used the assistance of books, notes, or another person during an exam, the score will be recorded as “zero.”

ACADEMIC INTEGRITY:

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration on homework or assignments, plagiarism, multiple submissions of the same assignment, cheating on examinations, fabricating information, helping another person cheat, having unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, http://academicintegrity.okstate.edu/.
ESTIMATED POINTS:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical Essay Exams (4 @ 50 pts. each)</td>
<td>200</td>
</tr>
<tr>
<td>Quizzes (10 @10 pts. each)</td>
<td>100</td>
</tr>
<tr>
<td>Exam I</td>
<td>100</td>
</tr>
<tr>
<td>Exam II</td>
<td>100</td>
</tr>
<tr>
<td>Laboratory Attendance</td>
<td>20</td>
</tr>
<tr>
<td>Cumulative Final Exam</td>
<td>180</td>
</tr>
<tr>
<td>Total points*</td>
<td>700</td>
</tr>
</tbody>
</table>

*Total points may fluctuate based on unforeseen changes; however, your final grade will be based on your percent of total possible points.

GRADING SCALE:

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = below 60%

This grading scale is strictly observed; no curve will be made. There are ample opportunities to earn points in HORT 1013; therefore no extra credit is available.

SAFETY:

Throughout the semester each student may utilize chemicals for disinfection, propagation, production, post harvest handling, and/or marketing of horticultural commodities. It is each student’s responsibility to be aware of and practice appropriate safety procedures when contacting chemicals used in these instances or horticultural materials treated with such chemicals. Material Safety Data Sheets (MSDS) are publicly available at the OSU Teaching Greenhouses for greenhouse chemicals, and appropriate protective equipment is provided for your use. MSDSs for all chemicals in the Department of Horticulture and Landscape Architecture are available in 360 AG Hall.

Students are advised to become familiar with this information by taking OSU’s Hazardous Communications Training Module at http://www.ehs.okstate.edu/training.htm

ACCESSIBILITY:

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his or her disability and to request accommodations. If any member of this class thinks that he/she has a qualified disability and needs special accommodations, he/she should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services, 315 Student Union. Please advise the instructor of such disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations.

COURSE SCHEDULE: See HORT 1013 website on the OSU Online Classroom.

OSU SYLLABUS ATTACHMENT: http://academicaffairs.okstate.edu/current-students/46-syllabus-attachment