Name:  Dr. Michael Maurer
Email:  use D2L email
Phone:  (936) 468-1729
Office:  Agriculture Bldg. Rm. 119
Office Hours:  MW 9:00 to 11:50 am, TR 8:00 to 11:00am, or by appointment.
Department:  Agriculture
Class and laboratory meeting time and place:  Lecture MW 8:00 to 8:50 am; Lab M 3:00 to 4:50 pm Agriculture Bldg. Rm. 118

Course Description:
Prevention, biological, chemical, cultural and physical control of insects, diseases and weeds, including the concepts of integrated pest management.

Student Learning Outcomes:
Upon completion of this course, the student will be able to:
1. Use the techniques associated with integrated pest management
2. Understand methods of plant protection in various production systems.
3. Calibrate various types of application equipment for pesticide use.
4. Basic understanding of pesticides.
5. Safe application and use of pesticides.

Text and Materials:
There is not a specific text for this course, but select reading will be assigned throughout the semester. These will be handed out or made available via D2L

Course Requirements:
Exam I  17%
Exam II  17%
Final  17%
Calculations  25%

Written assignments/presentations:
Plant nutrient  8%
Insect  8%
Pathogen  8%
Course Calendar:

Tentative Lecture Schedule

Topic outline and Exam dates
(Exam dates or topics may change with prior notification)

Topic (Suggested reading/chapter in text book).

PLANT NUTRIENTS – Wk 1 - 3
  Macronutrients
  Micronutrients
  Function and plant nutrient deficiencies

INTEGRATED PEST MANAGEMENT: - Wk 4 - 5
  Prevention
  Mechanical
  Cultural
  Biological
  Chemical

INSECTS - Entomology: Wk 6 - 7
  Insect life cycles
  Thresholds
  Natural enemies - biological agents
  Insecticides

DISEASES – Plant Pathology: Wk 8 - 10
  Types of plant diseases
  Disease triangle
  Identification of plant diseases
  Environmental factors
  Fungicides

NEMATODES: Wk 11
  Life cycles – morphology and anatomy
  Plant symptoms
  Control of nematodes

WEEDS: Wk 12
  Life cycles – annual, biennial and perennial
  Weed identification
  Control strategies

APPLICATION EQUIPMENT USE AND CALIBRATION: Wk 13-15
  Pesticide safety
  Granular application
  Liquid application
  Powder applications
  Calculations
Exam and Report Schedule:
Exam I February 19, 2018
Exam II March 26, 2018
Final Monday May 7, 2018, 8:00 – 10:00 a.m.

Written assignments/presentations:
Plant nutrient February 5, 2018
Insect March 5, 2018
Pathogen April 9, 2018

Grading Policy:
Grades will be assigned according to the following scale:

A = 90 - 100%
B = 80 - 89.9%
C = 70 - 79.9%
D = 60 - 69.9%
F < 59.9%

Student Conduct:
Students are expected to assist in maintaining a classroom environment which is conducive to learning. In order to assure that all students have an opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from using cellular phones or beepers, eating in class, making offensive remarks, reading newspapers, sleeping or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in, minimally, a request to leave the classroom.

Attendance Policy:
Class Attendance
Regular and punctual attendance is expected for all classes, laboratories, and other activities for which a student is registered. If a student has excessive absences, the instructor reserves the right not to give individual tutoring, special consideration regarding make-up work, or other help the student needs because of missing class. Attendance will also play a crucial role in decisions concerning borderline final grades.

Excused Absences
Students may be excused from attendance for certain reasons, among these are absences related to health, family emergencies, and student participation in certain university-sponsored events. However, students are responsible for notifying their instructors in advance whenever possible for excusable absences.

Students are responsible for providing timely documentation satisfactory to the instructor for each absence. Students with acceptable excuses may be permitted to make up work for absences to a maximum of three weeks of a semester when
the nature of the work missed permits. Whether excused or unexcused, a student is still responsible for all course content and assignments.

**Academic Integrity (A-9.1)**
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty**
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp)

Integrity and professionalism are expected at this level of education. Unauthorized collaboration on assignments or projects, as well as dishonesty on exams and quizzes will not be tolerated. Suspected cases of cheating or plagiarism in class and labs as well as grade disputes and appeals will be handled according to the academic regulations of the University. **If it is determined cheating occurred, the student will be dismissed and fail the course.**

**Withheld Grades Semester Grades Policy (A-54)**
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Students with Disabilities**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services.
The following information is for administrative purposes as required by university guidelines.

Program Learning Outcomes:

1. The student will demonstrate entry level skills needed for success in horticulture, agronomy and other related fields in the area of a) plant physiology and anatomy, b) practical experience in plant management systems, c) basic knowledge of plant genetics and reproduction, d) identification and knowledge of crops and e) management of soils and soilless media.

2. The student will demonstrate quantitative competence related to horticulture and agronomy.

3. The student will exhibit problem solving skills based on quantitative and analytical reasoning.

4. The student will demonstrate effective communication skills

5. The student will exhibit leadership and other interpersonal skills needed for career placement and advancement.

Program learning outcomes 1, 2, 3 and 4 are addressed in this class.

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<tr>
<th>Course</th>
<th>PLO 1 Plant Science</th>
<th>PLO 2 Quantitative</th>
<th>PLO 3 Problem Solving</th>
<th>PLO 4 Communications</th>
<th>PLO 5 Leadership</th>
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<td>AGN 367</td>
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B-Basic  I-Intermediate  A-Advanced  M-Mastery