Grading will be based on (1) class participation and (2) submission of short, practical exercises. In addition to introducing concepts and principles, we will discuss current issues, review the exercises submitted, and obtain hands-on experience with techniques used in applied nematology. The practical exercises will utilize WWW and other resources and simulate real-life experiences of nematologists dealing with situations involving growers, PCA’s, Farm Advisors, government agencies, and the general public. If you have specific crop interests, the exercises can be tailored to those interests.

The link to our course website is: https://smartsite.ucdavis.edu/access/content/user/00002950/courses/204NEM/204INDEX_class.htm

The course website contains links to PDFs of lecture Powerpoints, handouts, reading, and computer exercises. **Please print out the PDFs of lectures and the handouts to refer to in class, or download them to a computer or other device that you can bring to class.**

We will cover the following topics:

**MARCH 30:** Review of Introductory Nematology

**APRIL 6:** Recognizing a Nematode Problem and Prevention of Nematode Problems

**APRIL 13:** Biological Control and Physical Management Techniques

**IN CLASS EXERCISE:** Interpret a diagnostic laboratory report.

**APRIL 20:** Cultural Management Techniques

**APRIL 27:** Chemical Management Techniques and Equipment and Methods Used to Apply Products to Soil

**MAY 4:** Field Trip to Walnut Trial in Winters, Plot establishment, Soil and Root Sampling (optional) – Kristi Sanchez, Guest Lecture

**MAY 11:** Demonstrations: Extracting nematodes from soil and roots, and microscopic identification – Kristi Sanchez, Guest Lecture

**MAY 18:** Applications of Molecular Biology to Nematode Management – Kristi Sanchez, Guest Lecture

**MAY 25:** **HOLIDAY**

**JUNE 1:** Integrating Management Tactics and Nematode Field Trials.

**IN CLASS EXERCISE:** Perform a tomato root-gall rating.

**Computer Exercises** (due June 1 or before, submit a printout for each one):

1. Conduct a search of a nematode-host database
2. Determine nematode degree-days for a nematode-crop situation
3. Conduct a search of a pesticide use database