NEM 204 - NEMATODE MANAGEMENT

CRN: 52944 - 2 units, 176 Hutchison Hall

Monday 5:10 – 7:00 pm

SPRING QUARTER, 2011
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The WWW (World Wide Web) will be our textbook. 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 textbook is: https://smartsite.ucdavis.edu/access/content/user/00002950/courses/204NEM/204INDEX.htm

We will cover the following topics:

MARCH 28: Review of Introductory Nematology
APRIL 4: Recognizing a Nematode Problem
APRIL 11: Prevention of Nematode Problems
IN CLASS EXERCISE: Interpret a diagnostic laboratory report.
APRIL 18: Cultural Management Techniques
EXERCISE DUE: *Conduct a search of a nematode-host database.
APRIL 25: Potential for Biological Control / Physical Management Techniques
MAY 2: Chemical Management Techniques / Equipment and Methods Used to Apply Products to Soil
EXERCISE DUE: *Identify root-knot nematode species using isozyme electrophoresis gels.
MAY 9: Integrating Management Tactics / Nematode Field Trials.
EXERCISE DUE: * Determine nematode degree days for a nematode-crop situation.
IN CLASS EXERCISE: *Perform a tomato root-gall rating.
MAY 16: Compare nematode extraction techniques (Cindy Anderson). MEET AT NEMATOLOGY HEADHOUSE IN ORCHARD PARK.
MAY 23: No Class
MAY 30: HOLIDAY

*Written “report” required for these exercises