

782 *Special Problems in Horticulture.* (1-4) I, II, S
This course is designed to meet the need for advanced work. May be repeated for a total of 12 credits. Prereq: Approval of instructor. *Staff.*

790 *Research in Horticulture.* (1-4) I, II, S
May be repeated to a maximum of 9 credits. Prereq: Approval of instructors. *Staff.*

PLANT PATHOLOGY

FACULTY

Richard Alexander Chapman, chairman

Professors

Richard A. Chapman	Ph.D., Illinois, 1948
Stephen Diachun	Ph.D., Illinois, 1938
John W. Oswald	Ph.D., California, 1942
Granville W. Stokes	Ph.D., Wisconsin, 1953
Harry E. Wheeler	Ph.D., Louisiana, 1949

Associate Professors

Raymond E. Hampton	Ph.D., Wisconsin, 1960
Lawrence Henson	M.D., Kentucky, 1933
James W. Hendrix	Ph.D., North Carolina State, 1963
Thomas P. Pirone	Ph.D., Wisconsin, 1960

Assistant Professors

Malcolm R. Siegel	Ph.D., Maryland, 1962
Charles Y. Yang	Ph.D., Wisconsin, 1964

Course Descriptions

397 *Special Problems in Plant Pathology.* (1-4) I, II, S
May be repeated to a maximum of 9 credits. Prereq: Consent of instructor. *Staff.*

541 *Plant Pathology.* (3) I, II
Significance, nature, causes, and methods of control of plant diseases. Lectures and discussion, two hours; lab, two hours. Same as BOT 541. Plant Pathology. Prereq: BOT 101 or 125 or consent of instructor. *Diachun, Chapman.*

542 *Laboratory for 541.*

543 *Diseases of Plants.* (3) II
Symptoms, causes, and control of some of the more common representative plant diseases. Students may select problems in their major field of interest. Discussion, one hour; lab, four hours. Prereq: PPA 541 or BOT 541, or consent of instructor. *Staff.*

544 *Laboratory for 543.*

656 *Virus Diseases of Plants.* (4) II
Characteristics and properties of viruses that cause plant diseases; host-virus relationships; identification and control of some important virus diseases; consideration of research methods. Lecture and discussion, two hours; lab, four hours. Prereq: PPA 541 or BOT 541, or consent of instructor. *Diachun.*

657 *Laboratory for 656.*

658 *Nematode Diseases of Plants.* (3) I
The importance, effects, recognition and control of nematodes that cause plant diseases; physiology of plant parasitic nematodes and their relations with other nematodes and plant pathogens. Lecture, 1 hour, lab, 4 hours. Prereq: PPA 541 or BOT 541 or ZOO 534, or consent of instructor. Will be offered in fall of odd numbered years. *Chapman.*

659 *Laboratory for 658.*

660 *Physiology of Plant Diseases.* (3) II
Physiological aspects of plant diseases including effects of pathogenic organisms on plant metabolism; host parasite interactions; and mechanisms of disease resistance. Laboratory work emphasizes methods used in investigating the physiological effects of diseases on plants. Discussion 2 hours; lab 2 hours. Prereq: PPA 541, BOT 501, or equivalent. *Hampton.*

768 *Residence Credit for the Master's Degree.* (0)
May be repeated once. *Staff.*

769 *Residence Credit for the Doctor's Degree in Biological Sciences.*
1-18 weeks residence. May be repeated indefinitely. *Staff.*

770 *Plant Pathology Seminar.* (1) I, II
Reports and discussions of problems and investigations of problems in Plant Pathology. May be repeated three times for a maximum of four credits. *Staff.*

784 *Special Problems in Plant Pathology.* (1 to 3) I, II, S
May be repeated to a maximum of nine credits. Prereq: PPA 541 or BOT 541, or consent of instructor. *Staff.*

794 *Research in Plant Pathology.* (1-4) I, II, S
Prereq: PPA 541 or BOT 541, or consent of instructor. May be repeated to a maximum of 12 credits. *Staff.*

SOCIOLOGY

(See also Sociology Department courses,
College of Arts and Sciences)

FACULTY

Thomas R. Ford, chairman

Professors

Howard Wayland Beers	Ph.D., Cornell, 1935
(Distinguished Professor)	
James Stephen Brown	Ph.D., Harvard, 1950
A. Lee Coleman	Ph.D., Cornell, 1950
Charles Milton Coughenour	Ph.D., Missouri, 1953
Thomas R. Ford	Ph.D., Vanderbilt, 1951
Frank Anthony Santopolo	Ph.D., Fordham, 1956

Associate Professors

Harry Karl Schwarzweller	Ph.D., Cornell, 1958
E. Grant Youmans	Ph.D., Michigan State, 1953

Course Descriptions

513 *Rural Community Analysis.* (3) I
The nature of the town-country community, with special emphasis on the function of institutional and agency programs and their leaders in relation to the community. Same course as HE 575. Prereq: SOC 151 or consent of instructor. *Ford.*

514 *Rural Movements and Social Policy.* (3) I
Social factors in selected rural movements, their organization and development, influence upon governmental policy, and the social needs met. Prereq: An introductory course or consent of instructor. *Brown.*

515 *Diffusion of Technology in Modern Society.* (3) I
A study of the personality, social structure, and change agent factors in the spread of new techniques among groups and individuals in modern society. Prereq: SOC 151, 153. *Coughenour.*