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3060 Introductory Plant Physiology (4) Prereq.: BIOL 1202 and 1209; CHEM 2060 2261, or 2461. 3 hrs lecture; 4 hrs lab. BIOL 1202. Life processes of plants.
3900 Undergraduate Research in Plant Pathology (1-3 V) Prereq.: PLHL 4000 or equivalent and consent of instructor. May be repeated for a max. of 6 sem. hrs. of credit. Research experience for students contemplating graduate study in plant pathology.
3960 Undergraduate Research in Crop Physiology and Weed Science (1-3 V) Prereq.: PLHL 4000 or equivalent and consent of instructor. May be taken for a max. of 6 sem. hrs. of credit. Research experience for students contemplating graduate study in crop physiology and weed science.
4000 General Plant Pathology (3) Prereq.: BIOL 1201, 1208 and 1402; or equivalent: 2 hrs lecture: 3 hrs lab. Natural history and classification of plant pathogens; pathogenesis of disease; interactions of host and parasite into disease development; and major diseases of important crops. Credit given for only one of these courses: BIOL 1204, 3060, 4000, 4010, or 4042.
4002 Special Topics in Agronomic Pest Management (1-3 V) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab work may be required. Subjects not covered in other weed science or plant pathology courses in this list.
4018 Plant Disease and Control (3) S Prereq.: PLHL 4000 and either CHEM 2060 or 2261. 2 hrs lecture: 2 hrs demonstration/lab. Plant disease management and control using cultural practices, disease resistance, biocidal, and biological control. Prerequisites: BIOL 1202, 1209, 3 hrs lecture; 3 hrs lab. Same as BIOL 4054.
4444 Analyzing Politics and Public Policy (3) Prereq.: POLI 2051. Analysis of the political process and the study of political institutions and their environment. Credit given for only one of these courses: POLI 2001, 2030, 4011, 4012, 4013, 4044, or 4120.
7010 Plant Molecular Biology (3) S Prereq.: BIOL 3060, 4093, or 4094. Also offered as POLI 7010. Molecular biology, biochemistry and genetics of higher plants and plant-associated microorganisms; genome organization and structure; RNA splicing; protein synthesis; chloroplasts and mitochondria; structure and expression of plant genes under control of environmental and developmental signals; plant interactions with pathogens; and symbiotic microorganisms.
7011 Phytobiocatalystery (3) S O-Prereq.: GL 4000, BIOL 2051, 3 hrs lecture: 3 hrs lab. Taxonomy, biology, mechanisms of pathogenesis; control of prokaryotic plant pathogens.
7040 Plant Virology (4) F E-Prereq.: PLHL 4000 and PLHL 7061. 4 hrs lecture: 1 hr. lab. Virus diseases: the causative agents of plant diseases; biological, chemical; and physiological properties of plant viruses; methods of transmission; pathogenesis of disease; and control of plant viruses. Consent of instructor required.
7051 Advanced Topics in Plant Pathology (1-3 V) V Prereq.: consent of instructor. May be taken for a max. of 8 sem. hrs of credit.
7052 Seminar (1-3) S F E-Prereq.: may be taken for a max. of 3. hrs of credit for graduate degree. Topics announced prior to registration.
7061 Plant Growth and Development (3) F Prereq.: BIOL 3060 or PLHL 3060 and BIOL 4093; or equivalent. Also offered as BIOL 7061. Effects of naturally occurring growth substances and environmental conditions on plant growth.
7063 Plant Metabolism (3) S Prereq.: PLHL 3060 or equivalent. Also offered as BIOL 7063. Major metabolic systems of plants and their control.
7065 Transport Processes in Plants (3) S Prereq.: BIOL 5050. 3 hrs lecture: 3 hrs lab. Physical processes that control the movement of substances in plants.
7067 Selected Topics in Plant Physiology (2) F Prereq.: consent of instructor. May be repeated for credit. Same as BIOL 7067. Mineral nutrition, metabolism, growth and development, and interactions with other organisms.
7068 Current Literature in Plant Physiology (1-5) Prereq.: consent of instructor. May be taken for a max. of 5 sem. hrs. of credit. Critical analysis of recent and classical papers in the field.
7080 Host-Parasite Interaction and Disease Resistance (3) S E-Prereq.: PLHL 4000 or equivalent: 2 hrs lecture: 2 hrs lab. Genetics, physiology, and biochemistry of disease development and disease resistance in plants. 3 hrs lecture: 3 hrs lab. Bacterial, fungal, and viral diseases.
7082 Plant Pathogens (3) F Prereq.: PLHL 4000 or equivalent. Physiology, ecology, and pathology of soilborne plant pathogens; control strategies including cultural, biological, and genetic; disease suppressive soils. 3 hrs lecture: 3 hrs lab. BIOL 4093. Review of plant pathology, disease suppression, soilborne plant pathogens.
3014 Budgetary Process and Policy Making (3) Prereq.: POLI 2051 or equivalent. Budgeting by public agencies; implementation of public policy; and methods and processes on budgetary policies at the national, state, and local levels of government.
4020 American States and Policy Making (3) S Prereq.: POLI 2051 or equivalent. Politics and policy making in the American states; legal, cultural, socio-economic, and political influences on the development of the states; major political concepts and organizations; state and local politics in the U.S.
4021 Politics and Policy Making (3) F Prereq.: POLI 2051 or equivalent. Political problems in urban government; the political environment of American cities, metropolitan and regional policy issues; political concepts and organizations; major political concepts and organizations; American urban politics; and the urban political system.
4025 Introduction to Comparative Politics (3) S Prereq.: POLI 2051. Comparative politics and the role of government, political parties, and political institutions in a variety of countries and regions.
5010 Undergraduate Research in Plant Physiology (1-3) S Prereq.: consent of instructor. Subject matter and instructor vary. Details available from department.
5021 4000 General Plant Pathology (3) F Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit. 1 hr. lecture: 4 hrs lab. Prereq.: BIOL 4093. Interactions between pathogen and host populations, and the environment; mechanisms of disease and disease management; strategies to assess losses due to plant disease.
5030 Introductory Research (1-12 per sem.) S F E-Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. credit. 1 hr. lecture: 8 hrs lab. Prereq.: BIOL 4093. Faculty-supervised experiences in plant physiology research, disease diagnosis, and control.
5060 Special Problems (1-5) S Prereq.: consent of instructor. May be taken for a max. of 9 sem. hrs. credit. Faculty supervised, independent research other than thesis or dissertation.
9000 Dissertation Research (1-12 per sem.) S F E-Prereq.: consent of instructor. Also offered as POLI 9000. May be repeated for a max. of 6 sem. hrs. credit when topics vary. Prereq.: consent of instructor and class.