

# BIOAG'L SCI + PEST MGMT- BSPM (BSPM)

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## Courses

### **BSPM 102 Insects, Science, and Society (GT-SC2) Credits: 3 (3-0-0)**

**Course Description:** How insects develop, behave, and affect human activity. What every student should know about the most diverse life form on Earth.

**Prerequisite:** None.

**Registration Information:** Credit not allowed for both BSPM 102 and BSPM 356A.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**Additional Information:** Biological & Physical Sciences 3A, Natural & Physical Sciences w/o lab (GT-SC2).

### **BSPM 201 Weed Management and Control Credits: 3 (3-0-0)**

**Course Description:** Basic overview of weeds and weed control.

**Prerequisite:** None.

**Registration Information:** Offered as an online course only.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 302 Applied and General Entomology Credits: 2 (2-0-0)**

**Course Description:** Biology and management of insects.

**Prerequisite:** None.

**Registration Information:** Credit not allowed for both BSPM 302 and BSPM 356A.

**Term Offered:** Fall.

**Grade Modes:** S/U within Student Option, Trad within Student Option.

**Special Course Fee:** No.

### **BSPM 303A Entomology Laboratory: General Credits: 2 (0-4-0)**

**Course Description:** Biology and recognition of insects.

**Prerequisite:** BSPM 302, may be taken concurrently.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** Yes.

### **BSPM 303B Entomology Laboratory: Horticultural Credit: 1 (0-2-0)**

**Course Description:** Biology and recognition of insects.

**Prerequisite:** BSPM 302, may be taken concurrently.

**Registration Information:** Credit not allowed for both BSPM 303B and BSPM 356A.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 303C Entomology Laboratory: Agricultural Credit: 1 (0-2-0)**

**Course Description:** Biology and recognition of insects.

**Prerequisite:** BSPM 302, may be taken concurrently.

**Term Offered:** Fall (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 308 Ecology and Management of Weeds Credits: 3 (2-3-0)**

**Course Description:** Classification, characteristics; weed biology and ecology; control by cultural, mechanical, chemical, and biological means; successional management.

**Prerequisite:** (BZ 120 or LIFE 103) and (CHEM 107 or CHEM 111).

**Registration Information:** Must register for lecture and laboratory.

Required field trips.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** Yes.

### **BSPM 355A Horticulture Pathology: General Pathology Credit: 1 (1-0-0)**

**Course Description:** A 5-week course consisting of General Plant Pathology; identification of the organisms that can cause plant diseases.

**Prerequisite:** HORT 100 to 199 or LIFE 100 to 199.

**Registration Information:** Written consent of instructor. This is a partial semester course. Offered as an online course only. Credit not allowed for both BSPM 355A and BSPM 381A2.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 355B Hort Pathology: Turf and Ornamental Disease Credit: 1 (1-0-0)**

**Course Description:** Turf and ornamental plant diseases, their management and control.

**Prerequisite:** BSPM 355A.

**Registration Information:** Written consent of instructor. This is a partial semester course. Offered as an online course only. Credit not allowed for both BSPM 355B and BSPM 361.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 355C Horticulture Pathology: Vegetable and Greenhouse Disease Credit: 1 (1-0-0)**

**Course Description:** Diseases in the Greenhouse and Vegetable crops, management and control.

**Prerequisite:** BSPM 355A.

**Registration Information:** Offered as an online course only. This is a partial semester course. Written consent of instructor.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### **BSPM 356A Horticultural Entomology Introduction Credit: 1 (1-0-0)**

**Course Description:** Basic biology, identification and management of insects and mites affecting horticultural crops.

**Prerequisite:** HORT 100 to 199 or LIFE 100 to 199.

**Registration Information:** Written consent of instructor. This is a partial semester course. Offered as an online course only. Credit not allowed for both BSPM 102 and BSPM 356A. Credit not allowed for both BSPM 302 and BSPM 356A. Credit not allowed for both BSPM 303B and BSPM 356A.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 356B Horticultural Entomology: Food Crops Credit: 1 (1-0-0)**

**Course Description:** Insect and mite pests of fruits, vegetables and other garden grown food crops.

**Prerequisite:** BSPM 102 or BSPM 302 or BSPM 356A, may be taken concurrently.

**Registration Information:** This is a partial semester course. Offered as an online course only.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 356C Horticultural Entomology: Landscape Plants Credit: 1 (1-0-0)**

**Course Description:** Insect and mite pests of ornamentals (woody plants, flowers) and turfgrass and their management.

**Prerequisite:** BSPM 102 or BSPM 302 or BSPM 356A, may be taken concurrently.

**Registration Information:** Written consent of instructor. This is a partial semester course. Offered as an online course only.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 361 Elements of Plant Pathology Credits: 3 (2-2-0)**

**Course Description:** Diseases of economic plants.

**Prerequisite:** BZ 104 or BZ 120 or HORT 100 or LIFE 102.

**Registration Information:** Must register for lecture and laboratory.

**Term Offered:** Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** Yes.

**BSPM 365 Integrated Tree Health Management Credits: 4 (3-3-0)**

**Course Description:** Insects and diseases in forest and urban ecosystems. Effects, diagnosis, prevention, and interactions.

**Prerequisite:** BZ 120 or LIFE 102.

**Registration Information:** Must register for lecture and laboratory. Required field trips. Sections may be offered: Online.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** Yes.

**BSPM 384 Supervised College Teaching Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Registration Information:** A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 424 Principles of Systematic Science Credits: 3 (3-0-0)**

**Also Offered As:** BZ 424.

**Course Description:** Introduction to the core principles of systematic science and exploration of issues including speciation, taxonomy and classification, constructing and evaluating hypotheses of evolutionary relationships, characters used in taxonomy, species descriptions, the taxonomic literature, museums and museum science, and careers in systematic science.

**Prerequisite:** BZ 220.

**Registration Information:** Credit not allowed for both BSPM 424 and BZ 424.

**Term Offered:** Spring (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** Yes.

**BSPM 450 Molecular Plant-Microbe Interaction Credits: 3 (3-0-0)**

**Course Description:** Principles of plant-microbe/insect interactions, physiological and molecular aspects of plant defense, genomics approaches to study plant defense.

**Prerequisite:** (BZ 100 to 499 - at least 3 credits) and (BZ 346 or SOCR 330).

**Registration Information:** Credit not allowed for both BSPM 450 and BSPM 550.

**Term Offered:** Spring (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 462 Parasitology and Vector Biology Credits: 5 (3-4-0)**

**Also Offered As:** BZ 462 and MIP 462.

**Course Description:** Protozoa, helminths, and insects and related arthropods of medical importance; systematics, epidemiology, host damage and control.

**Prerequisite:** (BZ 110 or LIFE 103) and (BZ 212 or LIFE 206 or MIP 302).

**Registration Information:** Must register for lecture and laboratory. Credit allowed for only one of the following: BSPM 462, BZ 462, MIP 462.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 487 Internship Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 492 Seminar Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 495 Independent Study Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 496 Group Study Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 500 Foundations of Bioagricultural Sciences Credits: 2 (2-0-0)**

**Course Description:** Introduction to graduate school covering managing time, advisor and research, plus a survey of topics encompassed by the department of BSPM.

**Prerequisite:** None.

**Restriction:** Must be a Graduate.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 502B Topics in Plant Pathology: Plant Bacteriology Credit: 1 (1-0-0)****Course Description:**

**Prerequisite:** BIO 300 to 499 - at least 3 credits or BSPM 300 to 499 - at least 3 credits or BZ 300 to 499 - at least 3 credits or LIFE 300 to 499 - at least 3 credits.

**Term Offered:** Fall (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 520 Advanced Systematics Credits: 3 (3-0-0)**

**Also Offered As:** BZ 520.

**Course Description:** Theory and practice of modern systematics.

**Prerequisite:** BSPM 424 or BZ 424 or BZ 325.

**Registration Information:** Credit not allowed for both BSPM 520 and BZ 520.

**Term Offered:** Spring (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 526 Evolutionary Ecology Credits: 3 (3-0-0)**

**Also Offered As:** BZ 526.

**Course Description:** Adaptation to abiotic and biotic environments; how current ecological processes interact with evolutionary history.

**Prerequisite:** LIFE 320 or LIFE 220 or LAND 220.

**Registration Information:** Credit not allowed for both BSPM 526 and BZ 526.

**Term Offered:** Fall (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 528 Invasive Plants/Weeds—Ecosystems to Molecules Credits: 3 (3-0-0)**

**Course Description:** Contributions of disciplines of weed science and invasion ecology to understanding the biology, ecology and management of "problem plants."

**Prerequisite:** (LIFE 320 or LAND 220 or LIFE 220) and (BZ 120) and (LIFE 102 or LIFE 103).

**Term Offered:** Spring (even years).

**Grade Modes:** S/U within Student Option, Trad within Student Option.

**Special Course Fee:** No.

**BSPM 530 Scientific Writing Credit: 1 (1-0-0)**

**Also Offered As:** SOCR 530.

**Course Description:** Skills necessary to prepare complete scientific journal articles including writing, editing, and literature searching and assessment.

**Prerequisite:** None.

**Registration Information:** Credit not allowed for both BSPM 530 and SOCR 530.

**Term Offered:** Spring.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 550 Molecular Plant-Microbe Interactions Credits: 3 (3-0-0)**

**Course Description:** Principles of plant-microbe interactions, physiological and molecular aspects of plant defense, genomic approaches to study plant defense.

**Prerequisite:** (BZ 100 to 499 - at least 3 credits) and (BZ 346 or SOCR 330).

**Registration Information:** Credit not allowed for both BSPM 550 and BSPM 450.

**Term Offered:** Spring (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 555 Immature Insects Credits: 3 (1-4-0)**

**Course Description:** Characteristics of immature forms of orders and families of insects emphasizing those important to man.

**Prerequisite:** BSPM 303A or BSPM 303B or BSPM 303C.

**Registration Information:** Must register for lecture and laboratory.

**Term Offered:** Spring (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 584 Supervised College Teaching Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 587 Internship Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 592 Seminar Credits: Var[1-3] (0-0-0)**

**Course Description:** Major questions and theory pertinent to understanding current and relevant science topics.

**Prerequisite:** None.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 594 Independent Study Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 596 Group Study Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 698 Research Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 699 Thesis Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 740 Plant Molecular Genetics Credits: 3 (3-0-0)**

**Also Offered As:** SOCR 740.

**Course Description:** Advances in study of organization and function of nuclear and organellar genomes, gene expression in higher plants, and plant-microbe interactions.

**Prerequisite:** BC 351 and SOCR 330.

**Restriction:** Must be a: Graduate, Professional.

**Registration Information:** Credit not allowed for both BSPM 740 and SOCR 740.

**Term Offered:** Fall (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

**BSPM 784 Supervised College Teaching Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 787 Internship Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 794 Independent Study Credits: Var[1-3] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 798 Research Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

**BSPM 799 Dissertation Credits: Var[1-18] (0-0-0)**

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.