

**INTEGRATED
PEST
MANAGEMENT**



**Department of
Plant and Soil
Sciences**

Major Advisors: Assistant Professor
Dr. Fred Musser

Integrated Pest Management (IPM) is an interdisciplinary concentration of study in Entomology, Plant Pathology and Weed Science jointly administered by Entomology and Plant Pathology and the Department of Plant and Soil Sciences. Effective management of pest problems requires a broad base of knowledge in the pest disciplines and practical field experience. The Integrated Pest Management concentration features a strong core of courses in the three pest disciplines (entomology, plant pathology and weed science); a strong background in biological and physical sciences; and practical training through an internship. The curriculum is designed to meet the needs of students who wish to pursue advanced degrees and of students who wish to terminate their higher education with a baccalaureate degree. A range of restricted and non-restricted electives allow students to personalize their degree program for careers in crop production, agribusiness, natural resource management, and/or graduate studies preparation. .

Graduates are well prepared for employment with industry; state and federal research, extension and regulatory agencies; private agricultural consulting firms; farmer’s cooperatives; nurseries, home and garden centers; greenhouse plant production; and corporate farms.

Internship: IPM students must complete a minimum one semester internship with an approved internship sponsor in the industry, private consulting firms/individuals, or government agencies.

1st Year	
First Semester	Second Semester
EN 1103 English Comp I	EN 1113 English Comp II
MA 1313 College Algebra	AEC 2713 Intro Food & Res. Econ.
3 Hours Humanities Elective	BIO 1144 Biology II
BIO 1134 Biology I	CH 1053 Survey of Chemistry II
CH 1043 Survey of Chemistry I	CH 1051 Experimental Chemistry II
3 Hours Unrestricted Elective	3 Hours Restricted Elective
19 Hours	17
Total Hours 36	

Summer 1	
1st Term	2nd Term
CO 1003 Fundamentals of Public Speaking	ST 3123 Intro to Stat. Inf.
3 Hours Humanities Electives	3 Hours Approved Compr. Science Elective
6 Hours	6 Hours
Total Hours 48	

2nd Year	
First Semester	Second Semester
PSS 3303 Soils	AIS 3203 Intro Technical Writing in Agricomm.
PSS 3301 Soils Laboratory	PSS 4313 Soil Fertility
PO 3103 Genetics I	3 Hours Restricted Elective
CH 2503 Elem. Organic Chemistry	EPP 4154 General Entomology

PSS 3133 Intro to Weed Science	PSS 4633 Weed Biology and Ecology
EPP 4113 Principles of Plant Pathology	BIO 4214 General Plant Physiology
BIO 4213 Plant Ecology	
19 Hours	20 Hours
Total Hours 87	

Summer 2	
10 Week Term	
PSS 3423 Agronomy Internship	
3 Hours	
Total Hours 90	

3rd Year	
First Semester	Second Semester
EPP 4163 Plant Disease Management	3 Hours Fine Art Elective
EPP 4263 Princ. Insect Pest Management	3 Hours Unrestricted Elective
3 Hours Restricted Elective	2 Hours Unrestricted Elective
3 Hours Restricted Elective	3 Hours Social Behavioral Science Elective
3 Hours Unrestricted Elective	PSS 4813 Herbicide Technology
3 Hours Restricted Elective	2 Hours Restricted Elective
18 Hours	16 Hours
Total Hours 124	

Restricted Electives: Please consult with the faculty advisor for Restricted Elective (17 hours) Choose from the following:	
ABE 3513 GPS/GIS Ag & Eng	GR 3303 Survey of Geospatial Tech
ABE 4313 Bio Treatment of NPS Poll	GR 3311 Geospatial Applications
ACC 2013 Principles of Financial Acct.	GR 3313 Intro to Geodatabases
AEC 3113 Intro to Quantitative Ec	GR 4303 Principles of GIS
AEC 3133 Intro to Agribusiness Mgt.	GR 4323 Cartographics Sciences
AEC 3213 International Trade in AG	LA 2433 Landscape System& Plants
AEC 3233 Intro to Environ. Eco. & Pol.	MGT 3513 Intro to Human Resource Mgt.
AEC 3413 Princ. Of Agri. Marketing	PSS 2423 Plant Materials I
AEC 3513 Economics of Food/Fiber Production	PSS 3473 Plant Materials II
AEC 4123 Commodity Futures Mkt.	PSS 4103 Forage & Pasture Crops
BIO 3304 General Microbiology	PSS 4123 Grain Crops
BIO 4203 Taxonomy of Spermatophyte	PSS 4133 Fiber and Oilseed Crops
BIO 4223 Freshwater Algae	PSS 4314 Soil Microbiology
ENS 2102 Intro to Environmental Science	PSS 4323 Soil Classification
EPP 3124 Forest Pest Management	PSS 4333 Soil Conservation
EPP 3423 Ornamental Turf Insects	PSS 4343 Control Environ Agriculture
EPP 3522 Turfgrass Diseases	PSS 4353 Arboriculture & Land Maintenance
EPP 4214 Diseases of Crops	PSS 4363 Sustainable Nursery Production
EPP 4223 Pest Control	PSS 4373 Geospatial Agronomic Mgt.
EPP 4234 Field Crop Insects	PSS 4411 Remote Sensing Seminar
EPP 4244 Aquatic Entomology	PSS 4414 Turfgrass Management
EPP 4543 Tox.&Insecticide Chemistry	PSS 4453 Vegetable Production
FO 4311 Spatial Tech Nat.Res.Mgt. Lab	WF 4153 Princ. Wildlife Consv.& Mgt.
FO 4313 Spatial Tech Nat .Res. Mgt.	WF 4253 GIS/GPS Wildlife/Fish. Mgt.
FO 4451 Remote Sensing Appl Lab	WF 4371 Water Quality Management Lab
FO 4452 Remote Sensing Appl.	WF 4372 Water Quality Management
GR 2313 Maps & Remote Sensing	
UNRESTRICTED ELECTIVE (11 HOURS): Please see major advisor for these courses.	