

# INTEGRATED CROP MANAGEMENT



# Department of Plant and Soil Sciences

Major Advisors: Professor: Dr. Brian S.  
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Lang

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Integrated Crop Management (ICM) is the study of food and fiber production utilizing ecologically sound and technologically advanced methods. Areas covered include basic concepts for plant science and specific practiced in crop initiation, culture, harvesting, processing, distribution and marketing. Biotechnological and traditional methods of germplasm enhancement are taught. Specific program areas of study include agronomic crop production, crop science, fruit science, seed science, seed technology, and vegetable crop production. Students completing the Integrated Crop Management curriculum are prepared for careers as producers, consultants, technical representative plant breeders, extension agents, or inspectors with USDA and state agencies. This curriculum also provides a good background of basic sciences for those who wish to pursue graduate studies.

1 <sup>st</sup> Year	
First Semester	Second Semester
EN 1103 English Comp I	EN 1113 English Comp II
MA 1313 College Algebra	3 Hours Fine Art Elective
3 Hours Humanities Elective	PSS 1313 Plant Science
BIO 2113 Plant Biology	AEC 2713 Intro Food & Res. Econ.
CH 1043 Survey of Chemistry I	CH 1053 Survey of Chemistry II
3 Hours Approved Computer Science Elective	CH 1051 Experimental Chemistry
	3 Hours Social Behavior Science Elective
18 Hours	19 Hours
	<b>Total Hours 37</b>

Summer 1	
1 <sup>st</sup> Term	2 <sup>nd</sup> Term
CO 1003 Fund Public Speaking	3 Hours Humanities Elective
3 Hours Approved Math Elective	CH 2503 Elem. Organic Chemistry
	CH 2501 Elem. Organic Chemistry Lab
6 Hours	7 Hours
	<b>Total Hours 50</b>

2 <sup>nd</sup> Year	
First Semester	Second Semester
PSS 3303 Soils	BIO 3304 General Microbiology
PSS 3301 Soils Laboratory	3 Hours Restricted Elective
PSS 3133 Intro to Weed Science	3 Hours Restricted Elective
3 Hours Restricted Elective	3 Hours Restricted Elective
AIS 3203 Intro Tech Writing in Agricomm.	BCH 4013 Principles of Biochemistry
EPP 2213 Intro to Insects	PSS 4313 Soil Fertility

PO 3103 Genetics I	
19 Hours	19 Hours
	<b>Total Hours 88</b>

<b>Summer 2</b>	
<b>10 Week Term</b>	
PSS 3423 Agronomy Internship	
	3 Hours
	<b>Total Hours 91</b>

<b>3<sup>rd</sup> Year</b>	
<b>First Semester</b>	<b>Second Semester</b>
3 Hours Restricted Elective	3 Hours Restricted Elective
3 Hours Unrestricted Elective	3 Hours Unrestricted Elective
AEC 3133 Intro Agribusiness Management	BIO 4214 General Plant Physiology
3 Hours Restricted Elective	3 Hours Unrestricted Elective
EPP 3113 Intro Plant Pathology	AEC 3413 Principles of Ag Marketing
15 Hours	16 Hours
	<b>Total Hours 122</b>

<b>Restricted Electives: Please consult with the appropriate faculty advisor for Restricted electives (21). Selection emphasizing the following program areas: Crop Science, Agronomic Crop Production Vegetable Crop Production, Fruit Sciences. Choose from the following"</b>	
EPP 4163 Plant Disease Management	PSS 4323 Soil Classification
EPP 4263 Principles Insect Management	PSS 4333 Soil Conservation and Land Use
GA 1111 Survey of Agriculture	PSS 4343 Control Environment Agriculture
MA 1713 Calculus I	PSS 4363 Sustainable Nursery Management
PSS 2423 Plant Materials I	PSS 4414 Turfgrass Management
PSS 3043 Fruit Science	PSS 4444 Plant Tissue Culture
PSS 3923 Plant Propagation	PSS 4453 Vegetable Production
PSS 4103 Forage and Pasture Crops	PSS 4503 Plant Breeding
PSS 4123 Grain Crops	PSS 4603 Soil Chemistry
PSS 4133 Fiber and Oilseed Crops	PSS 4633 Weed Biology and Ecology
PSS 4143 Advanced Fruit Science	PSS 4813 Herbicide Technology
PSS 4223 Seed Production	3 Hours Agribusiness Elective
PSS 4314 Soil Microbiology	
<b>UNRESTRICTED ELECTIVES (9 HOURS): Please see major advisor for these courses.</b>	