

AGRONOMY 105 CROP PRODUCTION CLASS SCHEDULE FALL 2012		
Date	Topic (Always subject to change)	Homework (Always due by 5 PM on Friday in the CRC)
8/21	Introduction <ul style="list-style-type: none"> Introduction to the course- Review syllabus/ assessment 	<ul style="list-style-type: none"> Homework: Go onto blackboard and introduce yourself to class (1 pt)/ Read pages 1-16 to prepare for next lecture
8/23	Crop Production Basics <ul style="list-style-type: none"> What is agronomy? How is agronomy involved in everyday life? 10 cropping regions of the US Influences of geography on plants Sustainable agriculture 	
8/28	Movie: Where Did it Come From?	<ul style="list-style-type: none"> Homework: Take home question(s) based off the movie
8/30	Crop History, Terminology and Classification <ul style="list-style-type: none"> Important crop history Crop origins Distinction between plant classifications 	
9/4	Crop History, Terminology and Classification Cont. <ul style="list-style-type: none"> Binomial system for naming plants Differences between monocots and dicots Differences between annuals, biennials, and perennials Plant Families 	<ul style="list-style-type: none"> Read pages 57-66 to prepare for next lecture
9/6	Photosynthesis, Respiration and Crop Growth Parameters <ul style="list-style-type: none"> Importance of photosynthesis and carbohydrate production to global ecology Factors affecting photosynthesis Understanding the principles of plant growth 	<ul style="list-style-type: none"> Read pages 91-112 to prepare for next lecture Homework: Take home questions for a movie found on blackboard
9/11	Integrated Pest Management <ul style="list-style-type: none"> General types of weed control/ pest control and the principles How to identify crop pests Key groups of pests 	<ul style="list-style-type: none"> STUDY FOR EXAM I (STUDY SESSION AT NIGHT WILL BE NOTED AT A LATER DATE)
9/13	EXAM 1	<ul style="list-style-type: none"> Read pages 25-36 to prepare for next lecture
9/18	Soils and Formation <ul style="list-style-type: none"> What soil is and where it comes from? Five soil forming factors Soil development and parent materials 	<ul style="list-style-type: none"> Homework: Isee activity take home exercise Read pages 37 to 42 to prepare for next lecture
9/20	Soil Characteristics, Classification and Use <ul style="list-style-type: none"> Soil texture triangle and its applications in naming soil Effects of iron and organic material on the color of soil Cation exchange capacity concepts 	
9/25	Continued Soils Use; Crop Residue Movie ;Nutrient Crop Management <ul style="list-style-type: none"> Twelve soil orders relative to US cropping systems Differences between land use classes Classification of essential elements Crop residue conservation 	<ul style="list-style-type: none"> Homework: Web Soil Survey
9/27	Nutrient Crop Management Continued <ul style="list-style-type: none"> Plant nutrient behavior in soil Soil tests Soil pH influences on nutrient availability N, P and K deficiency in soil 	<ul style="list-style-type: none"> Homework: Take home DVD and questions
10/2	Nutrient Crop Management Completed <ul style="list-style-type: none"> Symbiotic nitrogen fixation Cropping systems 	
10/4	Movie-Modern Marvels: Fertilizer	<ul style="list-style-type: none"> Homework: Summary Key Points Exercise
10/9	Fall Break- NO CLASS	
10/11	Review Game for Exam I	
10/16	NO CLASS-TIME SLOT FOR-Plant and Weed Quiz 1	<ul style="list-style-type: none"> Read pages 17 to 24 to prepare for next lecture
10/18	Temperature and Light <ul style="list-style-type: none"> Differences between cool and warm season crops Effects of temperature on plant dormancy 	

	<ul style="list-style-type: none"> Growing degree days calculation 	
10/23	Exam 2	
10/25	Temperature and Light Continued <ul style="list-style-type: none"> Absorption and reflection Light quality and intensity Artificial illumination concepts Movie: Environmental Tech	<ul style="list-style-type: none"> Read pages 47-56 to prepare for next lecture
10/30	Plant Reproduction and Genetics <ul style="list-style-type: none"> Seed production and pollination Four requirements for seeds to germinate Basic principles of plant genetics 	<ul style="list-style-type: none"> Homework: European Corn Borer Worksheet
11/1	Plant Reproduction and Genetics Continued <ul style="list-style-type: none"> Interactions between heredity, the environment and plant growth Concepts of biotechnology and genetic engineering Applications of Punnett Squares 	
11/6	Movie-TBD	<ul style="list-style-type: none"> Homework: Position Statement
11/8	Organic Farming (Movie-Sustainable Green Farming) <ul style="list-style-type: none"> Advantages and disadvantages of organic farming Importance of C:N ratio Importance of crop rotation 	
11/13	Movie- Modern Marvels	<ul style="list-style-type: none"> Evening Study Session
11/15	Exam 3	
11/20	No class- TIME SLOT FOR-Plant and Weed - Quiz 2	<ul style="list-style-type: none"> Read pages 43-46 to prepare for the next lecture
11/22	No Class-Thanksgiving	
11/27	Harvesting and Technology Lecture <ul style="list-style-type: none"> Components of precision farming Modern harvesting techniques 	
11/29	Movie- TBA	<ul style="list-style-type: none"> In class participation activity
12/4	Movie- Modern Marvels	<ul style="list-style-type: none"> In class participation activity
12/6	Wrap up and Final Class Assessment	<ul style="list-style-type: none"> In class participation activity