

AGRONOMY 105 CROP PRODUCTION CLASS SCHEDULE Spring 2012 REVISED ON 1/31/2012

Date	Topic (Always subject to change)	Homework (Always due by 5 PM on Friday in the CRC Gray Box)
1/10	Introduction <ul style="list-style-type: none"> Introduction to the course- Review syllabus/ assessment/ forms 	<ul style="list-style-type: none"> Homework: Go onto blackboard and introduce yourself to class (MUST DO FOR 1 POINT CREDIT) Dr. Snyder gave a general powerpoint about the class. Read pages 1-16 to prepare for next lecture
1/12	Crop Production Basics <ul style="list-style-type: none"> What is agronomy? How is agronomy involved in everyday life? Morrill Act 10 cropping regions of the US Influences of geography on plants (biomes) Sustainable agriculture 	<p>Note: Powerpoint and class handouts are uploaded on blackboard</p>
1/17	Movie: History Harvest of China (50 min.)	<ul style="list-style-type: none"> Homework: Take home question(s) based on the movie (Where did it come from? Ancient China Agriculture—partly in class and a few questions for homework) Read pages 7-15 to prepare for next lecture
1/19	Crop History, Terminology and Classification <ul style="list-style-type: none"> Important crop history of seeds Crop origins Agricultural domestication Differences between annuals, biennials, and perennials Hatch Act Monocots/dicots Plant families (SEE BLACKBOARD FOR ADDITIONAL POWERPOINT) 	<p>Note: Powerpoint and class handouts are uploaded on blackboard **Extra Credit: 1 point was given out for the cropping regions and plant family practice work sheet and was due on 1/27.**</p>
1/24	Completed Lecture from 1/19 & Movie-Amazing Grains	<ul style="list-style-type: none"> Dr. Snyder handout the Amazing Grains Movie Key in lab and for 1 point extra credit answer question 12 due 1/27. Dr. Snyder also gave out the Wheat movie handout to fill in and answer for homework due on 1/27.
1/26	Wheat Movie/Amazing Grains <ul style="list-style-type: none"> Wheat types Classes of wheat are important to review 	<ul style="list-style-type: none"> Homework: Complete the wheat movie handout.
1/31	Costa Rica- Preview & Comparing USA and Indiana Crop Production with Global Vision <ul style="list-style-type: none"> Show student questions answered ppt and provided new schedule & reminder about Call out information about Costa Rica Student worksheet before showing a movie on Costa Rica Ecotoursim and Economy 	<ul style="list-style-type: none"> Homework: Answer questions based on comparing USA, Indiana and Costa Rica.
2/2	Guest Lecture from Costa Rica: Dairy Farmer & Fertilizer Comp. Intern <ul style="list-style-type: none"> Costa Rica Compared to Indiana's Agriculture (Dr. Snyder) 	<ul style="list-style-type: none"> Prepare for studying for Exam I
2/7	Plant ID Review and Exam Review in Class <ul style="list-style-type: none"> Identify seeds Identify features with plants Jeopardy like Exam Review 	<ul style="list-style-type: none"> Look at Plant ID materials found on blackboard, as well as the resources provided in the CRC Read pages 25-36 to prepare for next lecture Will hold special review session from 4 to 5:00 in Lilly 2-425 on 2/8 (wed.)
2/9	Exam 1 Discuss Facebook Class Project Receive Photosynthesis Homework	<ul style="list-style-type: none"> Facebook class project and exam <p>Group homework assignment on Photosynthesis (exchanging out for class/team workday on Day 2/16 so you can work with group members no class (free time to complete project) Read pages 57-63 & Extra Handouts)</p> <ul style="list-style-type: none"> Photosynthesis, Respiration and Crop Growth Parameters (Homework due via email to Dr. Snyder) Importance of photosynthesis and carbohydrate production to global crop ecology Factors affecting photosynthesis/basic steps and processes and respiration and transpiration Understanding the principles of plant growth <p>Read pages 25-36 & 37-42 for soils and nutrients</p>

2/14 Soils Lecture	
2/16 NO CLASS – WORK on Group Photosynthesis Homework	<ul style="list-style-type: none"> • By 5PM send Dr. Snyder Photosynthesis Homework
2/21-CLASS- Soils Movie & Pick up Web Soil Survey (Can work with a partner but turn in your sheets individually)	<ul style="list-style-type: none"> • In class handout for Soils Movie • Web Soil Survey Homework will be given
2/23-CLASS-Fertilizer Movie- In Class Worksheet	<ul style="list-style-type: none"> • Read pages 47-56 to prepare for next lecture
2/28 Crop Nutrient Management <ul style="list-style-type: none"> • Plant nutrient behavior in soil • N,P, and K Deficiency soil • Symbiotic nitrogen fixation • Cropping Systems 	
3/1 Exam 2 review- Jeopardy GAME IN CLASS	
3/6 Exam 2	<ul style="list-style-type: none"> • Read pages 207-214 to prepare for next lecture
3/8 Factors Affecting Plant growth Plant Stress! <ul style="list-style-type: none"> • Growing Degree Days • Temperature effects 	
3/13 No Lecture- Spring Break	
3/15 No Lecture- Spring Break	
3/20 Seed Quality <ul style="list-style-type: none"> • Seed vigor tests • Seed bag info • Seed cost analysis 	
3/22 To be announced!	<ul style="list-style-type: none"> • Study for exam 3 (study session at night will be noted at a later date)
3/27 Exam 3	
3/29 Guest Lecture: Tate and Lyle	
4/3 Movie: Harvest	<ul style="list-style-type: none"> • Homework: Take home question(s) based on the movie • Read pages 145-152 to prepare for next lecture
4/5 Precision Farming: Guest Lecturer <ul style="list-style-type: none"> • Components of precision farming • Modern harvesting techniques 	<ul style="list-style-type: none"> • Summary required from guest lecture
4/10 Plant Reproduction <ul style="list-style-type: none"> • Seed production and pollination • Four requirements for seed to germinate • Basic principles of plant genetics 	
4/12 Guest Lecture: International Farming	<ul style="list-style-type: none"> • Summary required from guest lecture • Begin work on International Ag project
4/17 Movie: TBA	<ul style="list-style-type: none"> • Homework: Take home question(s) based on the movie
4/19 Movie: TBA	<ul style="list-style-type: none"> • Homework: Take home question(s) based on the movie
4/24 Organic Farming <ul style="list-style-type: none"> • Advantages/disadvantages of organic farming • Importance of C:N ratio • Importance of crop rotation 	
4/26 Wrap-up/Class Assessment	

Project due during finals week. We will have pre-test and post-test assessments. Also, we will have internationalization pre-assessment and post-assessments, and project reports.

*Note: All questions on video worksheets are fair game for exams