AGRONOMY 176 -- **PRINCIPLES OF CROP SCIENCE**
Fall, 2009; Lecture Outline
Meets MW @ 8:00 AM lecture; KH 152

Objectives:

1. Develop an appreciation of the importance of crops on world food production
2. Develop an understanding of the basic principles of plant growth and the influence on humankind and the environment
3. Develop an appreciation of the theoretical and practical application of agronomic principles

Aug. 24-26	Crop Production and Society (1)
Aug. 31-Sept. 2	Plant Morphology (2)
Sept. 7- 9	LABOR DAY, Plant Morphology
Sept. 14-16	Plant Morphology, **EXAM**
Sept. 21-23	Fundamental Plant Growth Processes (3)
Sept. 28-30	Plant Growth and Development (4)
Oct. 5- 7	Crop Improvement (5), **EXAM**
Oct. 12-14	Climate and Weather (6), Soil and Land (7)
Oct. 19-21	Plant Nutrients and Fertilizer (8), Plant and Soil Water (9)
Oct. 26-28	Pests in Crop Production (10), **EXAM**
Nov. 2- 4	Agricultural Production Systems (11), Organic Crop Production (12)
Nov. 9-11	Transgenics in Crop Production (13), Rangeland and Pastures and Their Management (14)
Nov. 16-18	Tillage Systems and Farm Energy (15), **EXAM**
Nov. 23-25	THANKSGIVING BREAK
Nov. 30-Dec. 2	Seed, Seedling, and Seeding (16) Harvesting and Storage of Crops (17)
Dec. 7- 9	Marketing and Handling Grain Crops (18), Review

FINAL EXAM on Monday, Dec. 14, @ 8:00 - 9:50 AM

Exams will be primarily multiple choice, matching, fill-in the blank, and short-answer objective essay (listing). Occasional unannounced 10-20 point quizzes may be given as necessary to encourage attendance and participation. Attendance will be taken occasionally.

Instructor: Dr. Gordon Roskamp, 227 Knoblauch Hall, office = 298-1569, e-mail at gk-roskamp@wiu.edu; office hours 11:00-12:00 MW, 3:00-4:00 TTh.

Texts: *Principles of Crop Production* **Second Edition** by George Acquaah
Lecture Exams & quizzes account for 2/3 of grade, Lab. makes up other 1/3
Grade Scale: 90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, <60 = F

In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. See Disability Support Services @ 298-2512 or http://www.wiu.edu/provost/student/

AGRONOMY 176 -- PRINCIPLES OF CROP SCIENCE
Meets T @ 10:00-11:50 **or** 1:00-2:50 **or** 3:00-4:50; KH 226

Laboratory Syllabus

Aug.	25	Field Trip to WIU Farm to ID Forages and Weeds
Sept.	1	Inflorescences, Wheat & Legume Flowers, Fruits
"	8	QUIZ; Seed Anatomy, Seedling Anatomy
"	15	QUIZ; Monocot vs. Dicot Growth; Staging Corn & Soybeans, prepare for 1st Lecture Exam
"	22	QUIZ; Photosynthesis; Plant Growth Regulators
"	29	Field Trip to WIU Farm to measure yields
Oct.	6	QUIZ; Site-Specific Farming
"	13	QUIZ; Mineral Nutrition
"	20	QUIZ; Disease and Insect ID and Control
"	27	QUIZ; Weed ID and Control
Nov.	3	QUIZ; Major Crop and Seeds ID
"	10	QUIZ; Seed Quality & Seeding
"	17	QUIZ; Grain Grading & Forage Quality; Review
"	24	THANKSGIVING BREAK – NO CLASS
Dec.	1	QUIZ; Genetic Engineering
Dec.	8	QUIZ; FINAL LABORATORY EXAM – 100 points

The laboratory will consist of 1/3 of the total grade for Agronomy 176. Quizzes will be **worth 20 points each** and will be given on the dates indicated above. All quizzes and the final will be COMPREHENSIVE. In addition, work totaling approximately 20 points may be assigned in class to be handed in at the end of the period, or at the next Lab. session. Attendance is expected at every laboratory session. There will be no make-up laboratories.