World Crop Adaptation and Distribution  
Agronomy 285 - 2012

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I. General Course Outcomes

A. Students will know how humans fit into the global eco-system.
B. Students will be able to identify the crops used as food in the world, where they are grown, and how they are used in local culture.
C. Students will exhibit comprehension of the global food/agricultural system.
D. Students will demonstrate knowledge of how climate influences adaptation, growth and distribution of crop plants.
E. Students will demonstrate awareness of the locations of the countries in the world, world dietary classes, and variation between cultures.
F. Students will demonstrate effective use of the written and spoken word.
G. Students will exhibit the ability to acquire and use knowledge.
H. Students will demonstrate effective team building skills.

II. Learning Outcomes

A. Lecture and discussion to build knowledge

Weeks 1-3 History of the World, Life, and Plants
- Demonstrate awareness of the geological history of the world
- Examine evidence for the origins of life and its impact on the world
- Exhibit a comprehension of the similarities between living organisms and constraints on life
- Demonstrate an in-depth knowledge of how the global distribution of sunlight, soil and climate influence the growth and distribution of specific crops.
- Exhibit comprehension of the classification of climates in the world

Weeks 4-5 Neolithic Revolution: Emergence of Agriculture
- Exhibit a comprehension of where agriculture began and the origin of crop plants.

Weeks 6-16 Crops and Constraints to Agricultural Productivity
- Develop knowledge of world crop plants and how they are used in different parts of the world.
- Demonstrate comprehension of dietary classes and their impact on hunger
- Examine the environment and future of agriculture
- Demonstrate awareness of world population growth, composition and distribution

B. Written and oral assignments to promote communication skills
- Demonstrate effective use of the written word
- Exhibit the ability to read articles and write summary reports
• Exhibit the ability to acquire knowledge
• Exhibit awareness of critical issues associated with world population growth
• Demonstrate the ability to work as a team to develop an oral presentation

**C. Homework to develop global knowledge of the world, world crops, and constraints to agriculture**

• Exhibit the ability to acquire knowledge
• Demonstrate knowledge of the seeds and fruits produced in different parts of the world
• Display awareness of agricultural production environments around the world
• Understand the characteristics associated with developed and developing countries

**D. Sample foods produced from diverse cereals, legumes, roots, and tubers**

• Demonstrate knowledge of the crops used for food around the world, where they are grown, and what they taste like

**E. Group Activities**

• Acquire knowledge about specific countries and constraints on agricultural production
• Demonstrate the ability to work on a team to solve a problem
• Demonstrate oral communications skills in formal presentation

**III. Assessing Progress Towards Accomplishing Outcomes**

Individuals may discuss homework assignments and communications assignments, but each person is responsible for completing his or her own work and handing it in before the end of the class period on the day it is due. Papers are late if not handed in by the end of class on the date due. Late papers will be assessed a **10% reduction** in grade for each working day for 10 days beyond the due date. Assignments later than 10 days will receive **0 points**. You are on your honor to do your own work, assignments which are copied from another student (past or present), shall receive **0 points**. If necessary, assignments will be tested for plagiarism using internet software solutions. **Quizzes cannot be made up** to obtain credit; you must be in class on the day of the quiz.

**Written Communication Assignments:** Every paper you write says something about you or your attitude. The person who reads your article could be your next employer, boy or girl friend, or a potential reference for your next position. Write each paper as though your promotion within the company were based on the quality of your effort. All papers must be typed and checked for spelling and grammar mistakes. **Each paper is limited to one page.** Specific instructions will be given for each of the written assignments. Each assignment is worth 25 points for a **Total of 75 points**

1. Newsletter Article  
   Friday, February 3  
   25 points
2. Review Article  
   Friday, March 2  
   25 points
3. Position statement  
   Friday, April 6  
   25 points
Homework Assignments: There are four homework assignments. The scores for Assignments 1 - 3 will be determined based on results of a quiz completed under the supervision of a TA in the Crops Resource Center (Lilly 2-417). Each quiz can be taken more than once, but only one quiz score can be submitted for a grade. The quiz should have your name and that of the supervising TA. The score for Assignment 4 will be determined based on a team-presentation in class. Each assignment is worth 30 points for a Total of 120 points.

1. The Americas  
   Friday, January 20  
   30 points
2. Africa and the Near East  
   Friday, February 17  
   30 points
3. Asia  
   Friday, March 23  
   30 points
4. Team Project  
   April 20-25  
   30 points

Quizzes: There will be three food quizzes during the semester. Each quiz score is based on participation and will involve evaluation and voluntary tasting of foods made from different crops. Points can only be awarded for attendance on the day of the quiz. Each quiz is worth 10 points for a Total of 30 points

1. Foods from the Americas  
   Monday, Feb 27  
   10 points
2. Foods from Africa & the Middle East  
   Friday, March 30  
   10 points
3. Foods from Asia  
   Monday, April 9  
   10 points

In Class Group Activities: There will be numerous in-class projects and ‘clicker quizzes’ that will be worth 5 points each for a Total of 30-45 points

Tests: There will be two tests and a comprehensive final exam (optional). The tests will be worth 80 points each and the final exam is worth 120 points for a Total of 280 points.

Test 1  
   Wednesday, March 7  
   80 points
Test 2  
   Wednesday, April 18  
   80 points
Comprehensive Final Exam  
   April 30-May 4  
   120 points

IV. Classroom

i>clicker2 devices will be used to manage in-class discussions and participation. Each student is required to bring their i>clicker2 device to class each day. These devices can be obtained on the internet or at local bookstores. The use of other electronic devices including cell phones, portable media players, and digital audio player during class is strictly prohibited.
V. Assignment Summary and Potential Points

Your final grade will be determined from the total possible points based on:
A = 90-100%, B =80-89%, C = 70-79%, D =60-69%, and F=0-59%.

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<thead>
<tr>
<th>Assignments</th>
<th>Due Date</th>
<th>Points</th>
<th>Accumulated Points</th>
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<tbody>
<tr>
<td>Homework 1</td>
<td>Friday January 20</td>
<td>30</td>
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<tr>
<td>Writing Assignment 1</td>
<td>Friday February 3</td>
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<td>Homework 2</td>
<td>Friday February 17</td>
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<td>Food Quiz 1</td>
<td>Monday February 27</td>
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<td>Writing Assignment 2</td>
<td>Friday March 2</td>
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<td>Test 1</td>
<td>Wednesday March 7</td>
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<td>Spring Break March 12-16</td>
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<td>Friday March 23</td>
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<td>Writing Assignment 3</td>
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<td>Food Quiz 3</td>
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<td>Test 2</td>
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<td>Homework 4</td>
<td>April 20-25</td>
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<td>In Class Participation</td>
<td>Variable</td>
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<td>Final April 30-May 4</td>
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<td>120</td>
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