

2019 SYLLABUS

(Syllabus is a guide and subject to change during the semester)

Course Title: World Food and Fiber Plant Production (PLSC.250)

Course Information:

- PS 250 is a 3 credit hour course, a GenEd course in Natural Sciences
- Taught spring semester, annually
- Class periods meet from 9:05 - 9:55, Mon. Wed. & Fri., in 113 Plant Biotechnology Building

Course Description:

Introduction to important world crops and production systems. Emphasis on plant terminology, origin, distribution and use, world agro-ecosystems, environmental and economic sustainability, current technology in crop production

Instructors:

Dr. Dennis Deyton (coordinator)

- Office: 262 Plant Biotech Building.
- Phone: 974-8822
- E-mail: deytond@utk.edu
- Office hours: 11:00-12:00, Monday, Wednesday, Friday.
 - I will be in the office most hours

Dr. John Stier, Associate Dean, CASNR

- Office: 126 Morgan Hall
- Phone: (865) 974-7493
- Email: jstier1@utk.edu
- Office hours: Stop-in any time or by appointment
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Course Objectives: Upon completion of this course, students should:

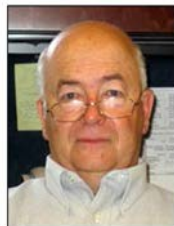
- Be able to describe plant terminology, the characteristics of major food and fiber plants, general production practices, and major areas of production.
- Be able to explain how climate, land, water, and social settings interact to determine food production systems, through study of major agroecosystems of the world.
- Have knowledge of how the primacy of the need to produce adequate food has affected societies and cultural traditions, and how technological changes have altered this relationship.
- Understand and be able to explain sustainability issues in food production systems, including water and air pollution, depletion of nonrenewable inputs and land degradation.

Technology use in the Course: Students will need access to a word processor, email, and the Internet for this course. Course material will be posted on Canvas. Lectures will often be posted in outline form (to encourage note taking). Please ensure that your UT email address is active because we update students using email. Microsoft Word is the preferred word processor. You will need Adobe Acrobat to view some documents.

Text: A recommended textbook (not required) is Plant Science Growth, Development, and Utilization of Cultivated Plants, 5th edition, by Margaret McMahon, Anton Kofranek, and Vincent Rubatzky. Two copies are being placed on reserve in the Pendergrass (Ag) Library.



Fig. 1 World Agricultural Output



Disability Services: "Any student who feels he or she may need an accommodation based on the impact of a disability should contact the Office of Disability Services (ODS) at 865-974-6087 in 2227 Dunford Hall to document their eligibility for services. ODS will work with students and faculty to coordinate reasonable accommodations for students with documented disabilities."

Academic Standards of Conduct: Students are reminded of the UT Academic Integrity Statement:

"An essential feature of the University of Tennessee, Knoxville is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the university, I pledge that I will neither knowingly give nor receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity." Each paper, lab report, review or similar written assignment needs to be original work. Other course materials are not acceptable because each course has different course objectives and learner outcomes.

Academic Dishonesty:

Students found cheating or receiving unauthorized assistance will have their exams or papers confiscated at the time of the infraction; they will be subject to an "F" for the course, and the matter will be referred to the Office of Student Conduct for further action. Students should refer to Hilltopics for University policies and procedures.

Classroom/Student Conduct: Cell phones and PDA's will be turned off and remain in backpacks or purses during exams. Use calculators and not cell phones/PDAs during exams. Laptop computers may be used in class but no text messaging or use of laptops for other than directed instruction is allowed.

Grading Scale: Instructors may adjust these ranges downward at their discretion.

Grade	%	Grade	%
A	93 to 100	C	73 to 77
A-	90 to 93	C-	70 to 73
B+	87 to 90	D+	67 to 70
B	83 to 87	D	63 to 67
B-	80 to 83	D-	60 to 63
C+	77 to 80	F	<60

Grades:

Source	Potential Points
Regular semester exams • 3 exams, dropping grade of lowest exam. (150 points/exam)	300
Quizzes • 11 quizzes, dropping grade of lowest quiz (10 points/quiz). Hand-written notes may be used (no sharing).	100
Critiques • 2 required (50 pts each)	100
Final Exam	150
Total	650 points

Exams and quizzes:

- Exams and quizzes cover material presented in class and reading assignments.
- Including the final exam, there are 4 exams. The lowest exam grade, including a missed exam, (excluding the final exam) will be dropped.
- The lowest quiz score, including a missed quiz, will be dropped.

- Handwritten notes may be used for the quizzes. No note-sharing is allowed.
- Make-up exams may differ from the regularly scheduled exam, and the Instructor reserves the option of giving essay make-up exams.
- No make-up exams or quizzes will be given unless a student has a valid excuse as recognized by the University. Such excuses are:
 - A death in the family.
 - A medical illness of a severity that prevents a student from attending class.
 - A University-sponsored activity or event that requires that a student miss class.
 - All make-up exams or quizzes will differ from the regularly scheduled exam and the Instructor reserves the option of giving essay make-up exams.

Writing Assignments/Critiques. Either the web address or the publication will be **posted on Canvas**.

- Please limit critiques to 1000 to 1500 words.
- Your name as submitter of the critique should be at the top of your critique. The author of the paper to be critique, the title of paper, and the publication source should be included in an early paragraph.
- The following is a definition of a critique: "A critique is a careful analysis of an argument to determine what is said, how well the points are made, what assumptions underlie the argument, what issues are overlooked, and what implications are drawn from such observations. It is a systematic, yet personal response and evaluation of what you read" (<http://www.hws.edu/academics/ctl/pdf/critique.pdf>). The article Writing a Critique (Critical Analysis) can be found at the above web address. We want to know what you thought of the article.

Submission of Critique:

- Submit critiques to Canvas in Microsoft "Word" format, 12 point, Times New Roman font, one inch margins,
- Submit your file with your last name as the first word in the file name (helps us keep them organized).

Rubric categories/points			Your points
Followed Instructions			
Very few (0 pts)	Most (3 pts)	All (6 pts)	
Identified main points			
Not at all (0 pts)	Half (5 pts)	Most or all (10 pts)	
Analysis of main points			
None (0 pts)	Superficial (5 pts)	Incisive/in-depth (10 pts)	
Underlying assumptions and/or overlooked issues identified			
None (0 pts)	One to few (2 pts)	Most/all identified (4 pts)	
Implications of situation or author suggestions discussed			
Not at all (0 pts)	Superficial or few addressed (5 pts)	Incisive/in-depth (10 pts)	
Grammar and organization			
Poor, below college-level (0 pts)	Fair (5 pts)	Excellent (10 pts)	
			Total points

Scoring Rubric for Required Writing Assignments. Point values in between those shown may be given. Total possible = 50 pts/assignment

Some key resources for students:

- **Hilltopics:** <http://dos.utk.edu/hilltopics> (Campus and academic policies, procedures and standards of conduct)
- **The Writing Center:** <http://writingcenter.utk.edu/> (Trained tutors (graduate students and lecturers) read and discuss student writing in one-to-one conversations and offer constructive feedback)
- **Library:** <http://www.lib.utk.edu> (Access to library resources, databases, course reserves, and services)
 - **Pendergrass Agriculture and Veterinary Medicine Library:** <http://www.lib.utk.edu/agvet/>
- **Student Success Center:** <http://studentsuccess.utk.edu> (Academic support resources)
- **Undergraduate Catalogs:** <http://catalog.utk.edu> (Listing of academic programs, courses, and policies)
- **Academic Planning:** <http://www.utk.edu/advising> (Advising resources, course requirements, and major guides)

Career Services: <http://career.utk.edu> (Career counseling and resources; HIRE-A-VOL job search system)

PLSC 250 World Food and Fiber Crops, Spring 2019 (Draft 1/2/19)

#	Date	Lecture Topic	Activity	Textbook- 5 th Edition	Lecturer
1	Jan. 9	Introduction to course/ Crop Origin		pg. 207-210	Deyton
2	Jan. 11	Plant Classification, Structure		pg. 197-207, 78, 97	Deyton
3	Jan. 14	Soils Overview		Chpt. 5	Stier
4	Jan. 16	Soil Fertility & Water		Chpt. 12, 13, 14	Stier
	Jan. 18	Intro. Agroecosystems; Humid Temperate Agroecosystems	Quiz 1	Chpt. 2 & Chpt. 4	Stier
5	Jan. 21	MLK HOLIDAY-No Class		-----	-----
6	Jan. 23	Subhumid/Semiarid Temperate Agroecosystems			Stier
7	Jan. 25	Mediterranean Agroecosystems	Quiz 2		Stier
8	Jan. 28	Tropical and Arid Agroecosystems		Chpt. 21	Stier
9	Jan. 30	Annual Crop Production Systems		pg. 366-376	Stier
10	Feb. 1	Harvest & Post-Harvest Losses		pg. 346-357, 377	Stier
11	Feb. 4	Soil-borne Vegetables		Chpt. 19 Vegetable	Deyton
12	Feb. 6	----	Exam 1	Production	Deyton
13	Feb. 8	Fruiting Vegetables (solanaceous, legumes)			Deyton
14	Feb. 11	Fruiting Vegetables (cucurbits, others)	Quiz 3		Deyton
15	Feb. 13	Leafy Vegetables			Deyton
16	Feb. 15	Tree Fruit Cultural Practices		Chpt. 20 Temperate	Deyton
17	Feb. 18	Temperate Fruit Crops	Critique #1 due	Fruit and Nut Crops	Deyton
18	Feb. 20	Temperate Fruit Crops, cont.			Deyton
19	Feb. 22	Nut Crops	Quiz 4		Deyton
20	Feb. 25	Subtropical Fruit crops		Pg. 501-514	Deyton
21	Feb. 27	Tropical Fruit crops			Deyton
22	Mar. 1	Plasticulture, Protected Culture	Quiz 5		Deyton
23	Mar. 4	Plant Breeding/Biotechnology Overview			Pantalone
24	Mar. 6	----	Exam 2	pg. 158-167	
25	Mar. 8	Organic/Sustainable Practices		pg. 344-345	Butler
--	Mar. 11	Oil seed, Introduction and Oil Palm	Quiz 6	pg. 387-391	Stier
26	Mar. 13	Rice		pg. 212-213 & 381-382	Stier
27	Mar. 15	Cotton, Flax and Hemp	Quiz 7	pg. 391-396	Stier
28	Mar. 18-22	SPRING BREAK-No Class			
29	Mar. 25	Wheat		pg. 211 & 386	West
30	Mar. 27	Maize	Critique #2 due	pg. 211-212 & 379-380	West
31	Mar. 29	Soybean		pg. 213 & 390	Pantalone
32	Apr. 1	Olives, Peanuts	Quiz 8		Stier
33	Apr. 3	Rapeseed (Canola) and Sunflower			Stier
34	Apr. 5	Grain Sorghum and Millets	Quiz 9	pg. 383-385	Stier
35	Apr. 8	Forages		Chpt. 18	Stier
36	Apr. 10	-----	Exam 3		Stier
	Apr. 12	Sugar Cane, Sugar Beets		pg. 384-385	Stier
37	Apr. 15	Technological Change on Crop Production; Peace Corps (last 15 min)		pg. 9-15 & Chpt. 3	Stier
38	Apr. 17	Chinese/Asian Production	Quiz 10		F. Chen
39	Apr. 19	SPRING RECESS			
40	Apr. 22	African Production			F. Walker
41	Apr. 24	South and Central American Production	Quiz 11		R. Nave
42	Apr. 26	Future of Agriculture: Issues of Population, Cropland Adequacy, Water, Land Degradation, Climate Change			Stier

	TBA	Final Exam	Final		

	Deyton out
	Stier out