



Last Updated: August 19, 2013

Course Syllabus

Introduction to Tropical Agriculture (01013111)

Fall Semester 2013

1. Faculty of Agriculture

2. Subject Code 01013111 (3-0-6) Subject: Introduction to Tropical Agriculture

3. Course Description

The meaning and the significance of the tropics and tropical agriculture, including how they differ from the temperate and other zones, are explained and discussed. Enrolling students will be provided with a broad foundation in all areas of knowledge of natural resources, agricultural systems and practices, and social and economic patterns in the tropics, with a special emphasis given on those in the Southeast Asia Peninsula and Thailand. The course also comprehensively details the concepts of sustainable agriculture which integrates the following three main goals: environmental health, economic profitability, and social and economic equity. The lectures will extensively cover the new theory on proper management of land and water bestowed by His Majesty the King of Thailand as well.

4. Objectives

To equip and prepare students with basic knowledge on the uniqueness and proliferation of natural resources in the tropics and also the concepts of agricultural systems and practices, and social and economic models indicative of tropical agriculture.

5. Course Outline

1. Introduction to Tropical Agriculture.

1.1 Tropics and Tropical Agriculture: Meaning and Its Significance.

1.2 Agricultural Development: From the Past to the Present.

1.3 Population and Agriculture.

1.4 Towards Sustainable Agricultural Production.

1.5 Conceptual Framework of Agriculture.

2. Agriculture in Southeast Asia Peninsula with Emphasis on Crop Production.

3. Overview of Agriculture in Thailand.

4. Environment and Socio-economic Conditions of Tropical Agriculture.

- 4.1 Forest as an Important Natural Resource in Agriculture.
- 4.2 Soil: The Fundamental Resource for Agricultural Production.
- 4.3 Economic Aspect of Tropical Agriculture.
- 4.4 Social Aspect of Tropical Agriculture.

5. Production Technology of Tropical Agriculture.

- 5.1 Overview of Crop Production.
- 5.2 Overview of Horticultural Production.
- 5.3 Beneficial and Destructive Insect and Non-Insect Pest in Agriculture.
- 5.4 The Role of Microorganism in Tropical Agriculture.
- 5.5 Animal Production in the Tropics.
- 5.6 Tropical Inland and Marine Fisheries.
- 5.7 Overview of Farm Machinery in the Tropics.
- 5.8 Agricultural Extension in the Tropics.

6. Sustainable Agriculture for Small Scale Farmers.

7. Cropping System and Farming System Research and Development.

8. His Majesty The King's New Theory: Land and Water Management in Agriculture.

6. **Teaching Method** Lecture and group discussion

7. **Teaching Tools** LCD and computer and sheet or handout

8. Evaluation

- One Report from the field trip	2.5 %
- Class attention, participation, and responsibility	2.5 %
- Mid-term examination	50%
- Final examination	45 %
Total:	100 %



field trip → 8 Nov 2008 In Nov.

9. Grading

>80.0%	A
75.0 – 79.9%	B+
70.0 – 74.9%	B
65.0 – 69.9%	C+
60.0 – 64.9%	C
55.0 – 59.9%	D+
50.0 – 54.9%	D
<50.0%	F

10. Consultancy

Students can meet and consult with the course manager

(Only by appointment):

Dr. Buncha Chinnasri - Vijiranusorn Building, Room 915
 Mobile phone: 081-619-9563
 e-mail : agrbcc@ku.ac.th

11. Text books for further reading

Pookpakdi, A. (ed.) 2006. Sustainable Agriculture Production in the Tropics. Publication submitted to the United Nation Development Program by Kasetsart University, Extension and Training Office, Kampaengsaen, Nakorn Pathom, Thailand.

12. Teaching schedule 3 Credits: Lecture 3 hours/week

Fridays 10:00-11:30 **Venue:** Room 206, 2nd Floor, Vajiranusorn Building
Fridays 13:00-14:30 **Venue:** Room 206, 2nd Floor, Vajiranusorn Building

23 Aug. 2013 (10:00-11:30)	Course Orientation.	0.5	Dr. Buncha Chinnasri
	1. Introduction to Tropical Agriculture. 1.1. Tropics and Tropical Agriculture: Meaning and Its Significance.	1.0	Dr. Buncha Chinnasri

23 Aug. 2013 (13:00-14:30)	1.2. Agricultural Development: From the Past to the Present.	1.5	Dr. Buncha Chinnasri
30 Aug. 2013 (10:00-11:30)	1.3. Population and Agriculture. 1.4. Towards Sustainable Agricultural Production.	1.5	Dr. Buncha Chinnasri
30 Aug. 2013 (13:00-14:30)	1.5. Conceptual Framework of Agriculture.	1.5	Dr. Buncha Chinnasri
6 Sept. 2013 (10:00-11:30)	2. Agriculture in Southeast Asia Peninsula with Emphasis on Crop Production.	1.5	Dr. Buncha Chinnasri
6 Sept. 2013 (13:00-14:30)	2. Agriculture in Southeast Asia Peninsula with Emphasis on Crop Production (Continued).	1.5	Dr. Buncha Chinnasri
13 Sept. 2013 (10:00-11:30)	3. Overview of Agriculture in Thailand.	1.5	Dr. Buncha Chinnasri
13 Sept. 2013 (13:00-14:30)	3. Overview of Agriculture in Thailand (Continued).	1.5	Dr. Buncha Chinnasri
20 Sept. 2013 (10:00-11:30)	4. Environment and Socio-economic Conditions of Tropical Agriculture. 4.1 Forest as an Important Natural Resource in Agriculture.	1.5	Assoc. Prof. Dr. Monton Jamroenprucksas
20 Sept. 2013 (13:00-14:30)	4.2 Soil: The Fundamental Resource for Agricultural Production.	1.5	Assist. Prof. Dr. Chawarit Hongprayoon
27 Sept. 2013 (10:00-11:30)	4.3 Economic Aspect of Tropical Agriculture.	1.5	Assoc. Prof. Dr. Suwanna Praneetvatakul
27 Sept. 2013 (13:00-14:30)	4.4 Social Aspect of Tropical Agriculture.	1.5	Dr. Oranutda Chinnasri

4 Oct. 2013 (10:00-11:30)	5. Production Technology of Tropical Agriculture. 5.1 Overview of Crop Production.	1.5	Assoc. Prof. Dr. Ed Sarobol
4 Oct. 2013 (13:00-14:30)	5.1 Overview of Rice Production.	1.5	Assoc. Prof. Dr. Apichart Vanavichit
11 Oct. 2013 (10:00-11:30)	5.2 Overview of Horticultural Production.	1.5	Assoc. Prof. Dr. Yingyong Paisooksantiwatana
11 Oct. 2013 (13:00-14:30)	5.2 Overview of Para rubber, Oil Palm, and Coconut Production	1.5	Assoc. Prof. Dr. Poonpipob Kasemsab
15 Oct. 2013	Mid-term	2	Dr. Buncha Chinnasri
25 Oct. 2013 (10:00-11:30)	5.3 Beneficial and Destructive Insect and Non-Insect Pest in Agriculture.	1.5	Assoc. Prof. Dr. Surachet Jamommarn
25 Oct. 2013 (13:00-14:30)	5.5 Animal Production in the Tropics. (5.4 is put off to 8 Nov. 2013)	1.5	Mrs. Pakapun Skunmun
1 Nov. 2013 (10:00-11:30)	5.6 Tropical Inland and Marine Fisheries.	1.5	Dr. Oraporn Meunpol
1 Nov. 2013 (13:00-14:30)	5.7 Overview of Farm Machinery in the Tropics.	1.5	Asst. Prof. Dr. Kriengkri Kaewtrakulpong
8 Nov. 2013 (10:00-11:30)	5.4 The Role of Microorganism in Tropical Agriculture.	1.5	Dr. Buncha Chinnasri
8 Nov. 2013 (13:00-14:30)	5.8 Agricultural Extension in the Tropics.	1.5	Assist. Prof. Dr. Suraphol Chandrapatya
15-16 Nov. 2013	Field Trip to the banana producing farmer group in Petcha Buri, Huay Sai Royal Project, and Kasetsart University, Kampaengsaen Campus	3	Dr. Buncha Chinnasri, Prof. Dr. Apiphan Pookpakdi

22 Nov. 2013 (10:00-11:30)	6. Sustainable Agriculture for Small Scale Farmers	1.5	Dr. Buncha Chinnasri
22 Nov. 2013 (13:00-14:30)	6. Sustainable Agriculture for Small Scale Farmers (continued)	1.5	Dr. Buncha Chinnasri
29 Nov. 2013 (10:00-11:30)	7. Cropping System and Farming System Research and Development	1.5	Dr. Buncha Chinnasri
29 Nov. 2013 (13:00-14:30)	7. Cropping System and Farming System Research and Development (continued)	1.5	Dr. Buncha Chinnasri
6 Dec. 2013 (10:00-11:30)	8. His Majesty The King's New Theory: Land and Water Management in Agriculture.	1.5	Dr. Buncha Chinnasri
6 Dec. 2013 (13:00-14:30)	8. His Majesty The King's New Theory: Land and Water Management in Agriculture (continued) 9. Conclusion	1.5	Dr. Buncha Chinnasri
18 Dec. 2013	Final Exam	3	Dr. Buncha Chinnasri

13. Lecturers

Assoc. Prof. Dr. Surachet Jamornmarn
 Assoc. Prof. Dr. Ed Sarobol
 Assoc. Prof. Dr. Yingyong Paisooksantiwatana
 Assoc. Prof. Dr. Monton Jamroenprucksas
 Assoc. Prof. Dr. Apichart Vanavichit
 Assoc. Prof. Dr. Poonpipob Kasemsab
 Assoc. Prof. Dr. Suwanna Praneetvatakul
 Assist. Prof. Dr. Suraphol Chandrapatya
 Assist. Prof. Dr. Chawarit Hongprayoon
 Assist. Prof. Dr. Kriengkri Kaewtrakulpong
 Mrs. Pakapun Skunmun
 Dr. Oranutda Chinnasri
 Dr. Oraporn Meunpol
 Dr. Buncha Chinnasri

14. Examination

Mid-Term Exam: Friday October 15, 2013: 13:00-15:10

Venue: Room 206, 2nd Floor, Vajiranusorn Building

Lecturer	Exam Scores	Exam Times
1. Dr. Buncha Chinnasri	10	26 Minutes
2. Assoc. Prof. Dr. Monton Jamroenprucksas	5	13 Minutes
3. Assist. Prof. Dr. Chawarit Hongprayoon	5	13 Minutes
4. Assoc. Prof. Dr. Suwanna Praneetvatakul	5	13 Minutes
5. Dr. Oranutda Chinnasri	5	13 Minutes
6. Assoc. Prof. Dr. Ed Sarobol	5	13 Minutes
7. Assoc. Prof. Dr. Apichart Vanavichit	5	13 Minutes
8. Assoc. Prof. Dr. Yingyong Paisooksantiwatana	5	13 Minutes
9. Assoc. Prof. Dr. Poonpipob Kasemsab	5	13 Minutes
Total	50	130 Minutes

Final Exam: Friday December 18, 2013: 13:00-15:00

Venue: Room 206, 2nd Floor, Vajiranusorn Building

Lecturer	Exam Scores	Exam Times
1. Assoc. Prof. Dr. Surachet Jamornmarn	5	13 Minutes
2. Mrs. Pakapun Skunmun	5	13 Minutes
3. Dr. Oraporn Meunpol	5	13 Minutes
4. Buncha Chinnasri	5	13 Minutes
5. Asst. Prof. Dr. Kriengkri Kaewtrakulpong	5	13 Minutes
6. Assist. Prof. Dr. Suraphol Chandrapatya	5	13 Minutes
7. Dr. Buncha Chinnasri	15	42 Minutes
Total	45	120 Minutes

Signature.....



(Dr. Buncha Chinnasri)

12 August 2013