KASETSART UNIVERSITY DEPARTMENT OF FOREST BIOLOGY, FACULTY OF FORESTRY

<u>Course No</u>: 302581: Biodiversity Conservation Policy and Planning 3(0-3)

Semester:	2 nd Semester (November – February)	
<u>Pre-requisite</u> :	Biodiversity Conservation 2(0-2); or Tropical Forest Biology 2(0-2)	
<u>Instructors</u> :	Yongyut Trisurat, Ph.D. Department of Forest Biology, Faculty of Forestry Kasetsart University Tel 02-579-0176 email: <u>fforyyt@ku.ac.th</u> Room# 511, the 60 th Anniversary Bld.	
<u>Class Schedule</u> :	Tuesday08.00-9.00 amThursday15.00-17.00 pmRoom # 303, 60th Anniversary Building	

<u>Course Description</u>: Definitions, biodiversity concepts and values; distribution and measurement of biological diversity; destruction and extinction of biodiversity of various parts of the world and Thailand; biodiversity assessment and monitoring; approaches for biodiversity conservation; strategies for conserving biodiversity; TNC's guide to planning for biodiversity conservation; biodiversity conservation corridor; community-based biodiversity conservation; and conservation conventions, legislation and the role of statutory agencies.

Objectives:

- 1. To provide the students with the appropriate principles and problems associated with the preservation and conservation of biodiversity
- 2. To introduce advanced spatial analysis techniques of collecting, manipulating and analyzing biodiversity data
- 3. To analyze conventional applications of conservation science at a singlespecies level, and we will evaluate the conservation efforts at levels of communities, ecosystems, and landscapes, and to provide students with practical approaches for conservation planning practiced by leading agencies in various parts of the world and Thailand
- 4. To study the conservation and environmental laws in Thailand that are relevant to biodiversity and convention on biological diversity, as well as their implications.

Course Outline:

Item	Торіс	Hrs.		
PART I: MEANING, PATTERNS AND MEASURING				
BIODIV	TERSITY			
1	Definitions, biodiversity concepts and values	2		
2	The distribution and measurement of biological diversity	3		

3	Destruction and extinction of biodiversity of various parts of the 2 world and Thailand		2
4.	Biodiversity assessment and mon	itoring	
	Species richness: measure and	-	2
	 Defining and measuring funct 		2
	 Monitoring indicators and too 		2
PARTI	I: CLASSICAL APPROACHES		-
5			
	• Conservation at genetic, speci		
			3
	• Conservation at community a	nd ecosystem levels	3
PART I	V: PRACTICAL APPROACHES		
6	Strategies for Conserving Biodiversity		5
7	TNC's Guide to Planning for Bio	diversity Conservation	
	• Selecting conservation targe	ts and goals	3
	• Assessing population viability	ty and ecological integrity	3
	• Selecting, designing and sett	ing priorities among	3
	conservation areas		
8	Biodiversity conservation corridor		3
9	Community-based biodiversity conservation 3		
	/: CONVENTIONS AND LEGIS		
10	Conservation conventions, legis	ation and the role of statutory	
	agencies		3
	Presentation		3
	Final Examination		
Course	Evaluation:		
Mid-term exam		30 %	
F	Final exam	30 %	

Final exam	30 %
Attention and discussion	10%
Assignment and presentation	30 %

Selected References

Baydack et al. (eds.). 1999. Practical Approaches to the Conservation of biological diversity. Island Press, Washington, D

Borrini-Feyerabend et al. 2004. Indigenous and local communities and protected areas: towards equity and enhanced conservation. IUCN, Gland, Switzerland and Cambridge, UK.

EPA. 1997. Community-based environmental protection: a resource book for protecting ecosystems and communities. U.S. Environmental Protection Agency, Office of Policy, Planning and Evaluation, Washington, D.C. (http://purl.access.gpo.gov/GPO/LPS45066).

Gaston, K.J. (ed). 1996. Biodiversity: a biology of number and difference. Blackwell Science, Cambridge.

Groves, C.R. 2003. Drafting a conservation blueprint: a practitioner's guide to planning for biodiversity. Island Press, Washington.

Primack, R.B. 1995. A primer of conservation biology. Sinauer Associates Inc., Sunderland.

Reaka-Kudla et al. (eds.). 1997. Biodiversity II: Understanding and Protecting Our Biological Resources. Joseph Henry Press, Washington, D.C.

Journals

Biodiversity and Conservation Conservation Biology Ecological Applications Journal for Nature Conservation Journal of Applied Ecology. Etc.