Course Syllabus

1.	Program of Study Faculty/Institute/College	Bachelor of Science Program Bachelor of Arts Program Bachelor of Business Administration Program Bachelor of Nursing Science Program Mahidol University International College
2.	Course Code ICNS 153	Course Title Ecosystems and Natural Resources
3. Number of Credits		4 (Lecture/Lab) (3-2)
4. Prerequisite (s)		None
5.	Type of Course	Natural Sciences (General Education)
6.	Trimester/Academic Year	3 rd trimester/2004

7. Course Description

Human impact on ecosystems and natural resources, global climate change, air quality, management of tropical forests including wildlife, and threats to biological diversity and effects on ecosystems; scientific approaches to investigating the causes and potential solutions. Field and laboratory exercises are included.

8. Course Objective (*s*)

Same as course description

9. Course Outline

Week	Торіс	Hour	Instructor
1	Introduction, Populations, Communities, Ecosystems	4	Laird Allan
2	Biomass, Energy Flow, Nutrient (Water and Carbon)	4	Laird Allan
	Cycles		
3	Nutrient Cycles (Nitrogen and Phosphorus)	4	Laird Allan
4	Local Climate Factors, Biodiversity (Video activity)	4	Laird Allan
5	Field Activity and Follow-up	4	Laird Allan
6	Review, Midterm Exam	4	Laird Allan
7	Terrestrial Biomes, Field Trip	4(+8)	Laird Allan
8	Field Trip follow-up, Global Climate Factors, Global	4	Laird Allan
	Warming		
9	ENSO, Aquatic and Marine Biomes	4	Laird Allan
10	Water Resources	4	Laird Allan
11	Mineral Resources, Energy Resources, Review	4	Laird Allan
	Final Exam		Laird Allan
	Total	44	

10. Teaching Method (*s*)

- Lectures
- Video
- Field studies
- Self-study (reading texts and websites)

11. Teaching Media

- Texts and teaching materials
- Video
- Field equipment

Letter Grade	Percent
А	90 or greater
B+	85 to 89
В	80 to 84
C+	75 to 79
С	70 to 74
D+	65 to 69
D	60 to 64
F	0 to 59

13. Course evaluation

- Midterm examination $35\,\%$ 35 %
- Final examination
- Active Class Participation 10 %
- 10 % • Activities
- $5\,\%$ ٠ Quizzes

14. Reference (s)

Environment, Peter Raven, Linda Berg, George Johnson, Saunders College Publishing

15. Instructor (s)

Laird Allan Tel: 0-2441-0594-6 ext. 1410, 1517 E-mail: iclaird@mahidol.ac.th Office: 1408/1

16. Course Coordinator

Laird Allan