



Undergraduate Program

Mahidol University International College

Course Title Environment and Natural Resources in Global Affairs

Course Code ICIR 229

Division: Social Science

TQF 3 Course Specifications

Section 1 General Information

1. Course code and course title

Thai ICIR ๒๒๙ สิ่งแวดล้อมและทรัพยากรธรรมชาติในกิจการทั่วโลก

English ICIR 229 Environment and Natural Resources in Global Affairs

2. Number of credits 4 (4-0-8)

3. Program and type of subject

3.1 Program Undergraduate Degree (International Program)

3.2 Type of Subject Major Elective

4. Course Coordinator and Course Lecturer

4.1 Course Coordinator William J. Jones

4.2 Course Lecturer TBA

5. Trimester/ Year of Study

5.1 Trimester As stipulated in the annual Social Science Division course schedule.

5.2 Course Capacity Approximately 40 students

6. Pre-requisite N/A

7. Co-requisites N/A

8. Venue of Study MUIC

9. Date of Latest Revision

Date 1 Month January Year 2018



Section 2 Goals and Objectives

1. Course Goals

To develop a knowledge and understanding of global resource use and management within the context of the interstate system; to understand resource scarcity and the importance of collective management strategies for the benefit of the global collective.

2. Objectives of Course Development/Revision

2.1 Course Objectives

Students will understand the availability, distribution, and uses of the world's resources: food, water, land, soil, minerals, energy, fisheries, etc. They will examine resource depletion and optimal usage as well as public policies, international agreements and business needs related to the production, distribution and exchange of resources. Students will be apprised of relevant technological and scientific developments and their impact on international relations.

2.2 Course-level Learning Outcomes: CLOs

By the end of the course, students will be able to (CLOs)

1. CLO 1 Students will possess a basic understanding of the global ecosystem the historical impact of human habitation
2. CLO 2 Students will understand the problematic relationship between development, population pressure and carrying capacity
3. CLO 3 Students will have an analytic understanding of the impact of industrial capitalism and accelerated energy use on the global environment
4. CLO 4 Students will understand the relationship between commercial agriculture, global commodities trade, shifting land tenure and food security
5. CLO 5 Students will be able to critically assess existing mechanisms for global environmental and resource management



Section 3 Course Management

1. Course Description

(Thai) การมีอยู่ การแจกจ่ายและการใช้ประโยชน์จากทรัพยากรโลก ได้แก่ อาหาร น้ำ ที่ดิน ดิน แร่ธาตุ พลังงาน ทรัพยากรประมง ฯลฯ การลดลงของทรัพยากรและการใช้ประโยชน์สูงสุดจากทรัพยากร นโยบายสาธารณะข้อตกลงระหว่างประเทศและความต้องการทางธุรกิจที่เกี่ยวข้องกับการผลิต การกระจายและการแลกเปลี่ยนทรัพยากร การพัฒนาเทคโนโลยีและวิทยาศาสตร์ที่เกี่ยวข้อง แนวโน้มในอนาคต นักเรียนจะเข้าใจ วิเคราะห์ และประเมินสภาพแวดล้อมและผลกระทบต่อความสัมพันธ์ระหว่างประเทศ

(English) The availability, distribution and uses of the world's resources: food, water, land, soil, minerals, energy, fisheries, etc; resource depletion and optimal usage; public policies, international agreements and business needs as related to the production, distribution and exchange of resources; relevant technological and scientific developments; future prospects. Students will understand; analyse; assess the environment and its impact on international relations.

2. Credit hours per trimester

Lecture (Hour(s))	Laboratory/field trip/internship (Hour(s))	Self-study (Hour(s))
48	0	96

3. Number of hours that the lecturer provides individual counseling and guidance.

- 4 hours/week
- Students may make appointments whenever necessary.



Section 4 Development of Students' Learning Outcome

1. Short summary on the knowledge or skills that the course intends to develop in students (CLOs)

By the end of the course, students will be able to

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4. CLO 4 Students will understand the relationship between commercial agriculture, global commodities trade, shifting land tenure and food security
5. CLO 5 Students will be able to critically assess existing mechanisms for global environmental and resource management

2. Teaching methods for developing the knowledge or skills specified in item 1 and evaluation methods of the course learning outcomes

Course Code	Teaching methods	Evaluation Methods
CLO1	Readings, lectures, multimedia, discussions	Participation, reading response papers, essay
CLO2	Readings, lectures, multimedia, discussions	Participation, reading response papers, essay
CLO3	Readings, lectures, multimedia, discussions	Participation, reading response papers, essay
CLO4	Readings, lectures, multimedia, discussions	Participation, reading response



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		papers, essay
CLO5	Readings, lectures, multimedia, discussions	Participation, reading response papers, essay

Section 5 Teaching and Evaluation Plans

1. Teaching plan

Week	Topic	Number of Hours		Teaching Activities/ Media	Lecturer
		Lecture Hours	Lab/Field Trip/Internship Hours		
1	Introduction: Course, Subject, History	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
2	Industrial Capitalism and the Environment	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
3	Global Integration and the Unforeseen Consequences of Development	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA



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4	Petroleum in Global Affairs	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
5	Alternative Energy?	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
6	Review, Discussion of Readings	4	0	Lecture, small group discussion	TBA
7	Water Management	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
8	Fisheries and Fish Stocks	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
9	Commercial Agriculture, Commodities Trade, Food Security	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
10	Land Tenure and Use	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
11	Sustainability	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA



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12	Future Scenarios Review	4	0	Lecture, multimedia materials, reading assignments, small group discussion	TBA
13	Final Examination	0	0		TBA
	Total	48	0		

2. Plan for Assessing Course Learning Outcomes

2.1 Assessing and Evaluating Learning Achievement

a. Formative Assessment

Participation	20%
Midterm Exam	30%
Presentation	20%
Final Exam	30%

b. Summative Assessment

(1) Tools and Percentage Weight in Assessment and Evaluation

Learning Outcomes	Assessment Methods	Assessment Ratio (Percentage)	
CLO 1 Students will possess a basic understanding of the global ecosystem the historical impact of human habitation	Examination	15	20
	Participation	5	
CLO 2 Students will understand the	Examination	15	20
	Participation	5	



problematic relationship between development, population pressure and carrying capacity			
CLO 3 Students will have an analytic understanding of the impact of industrial capitalism and accelerated energy use on the global environment	Examination	10	20
	Participation, Presentation	10	
CLO 4 Students will understand the relationship between commercial agriculture, global commodities trade, shifting land tenure and food security	Examination	10	20
	Participation, Presentation	10	
CLO 5 Students will be able to critically assess existing mechanisms for global environmental and resource management	Examination	10	20
	Presentation	10	
Total		100	100

(2) Grading System

Grade	Achievement	Final score (% range)
A	Excellent	90-100



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B+	Very Good	85-89
B	Good	80-84
C+	Fairly Good	75-79
C	Fair	70-74
D+	Poor	65-69
D	Very Poor	60-64
F	Fail	Less than 60

(3) Re-examination (If course lecturer allows re-examination)

N/A - (Not applicable with MUIC)

3. Student Appeals

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Section 6 Teaching Materials and Resources

1. Texts and main documents

1. Cunningham, W.P. & Cunningham, M.A. 2012. Environmental Science: A Global Concern. 12th edition. Chapters 7, 9, 10, 17, 19, 20.
2. Diamond, J. 2005. Collapse: How Societies Choose to Fail or Survive. Prologue and chapter 16.
3. McAnany, P.A. & N. Yoffee. 2010. Questioning Collapse. Chapter 1 & chapter 13.



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2. Documents and important information

1. To keep course materials in line with current scholarship on the topics discussed in this course, a reading list with additional recommendations shall be distributed to students in the beginning of each term.

3. Documents and recommended information

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Section 7 Evaluation and Improvement of Course Management

1. Strategies for evaluating course effectiveness by students

Written examinations and group presentation

2. Strategies for evaluating teaching methods

Student feedback, course evaluation, peer evaluation

3. Improvement of teaching methods

Student feedback, course evaluation, peer evaluation

4. Verification process for evaluating students' standard achievement outcomes in the course

Written examinations and group presentation

5. Review and plan for improving the effectiveness of the course

Student feedback, course evaluation, peer evaluation



Appendix

Alignment between Courses and Program

Table 1 The relationship between course and Program Learning Outcomes (PLOs)

Environment and Natural Resources in Global Affairs	Program Learning Outcomes (PLOs)						
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
ICIR 229	✓	✓	✓	✓	✓		✓

Note: Indicate the level of CLOs by letter I, R, P or M. Using the information as shown in the Curriculum Mapping of TQF2

Table 2 The relationship between CLOs and PLOs

ICIR 229	Program Learning Outcomes (PLOs)						
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CLO1 Students will possess a basic understanding of the global ecosystem the historical impact of human habitation	✓	✓	✓	✓	✓		✓



<p>CLO2 Students will understand the problematic relationship between development, population pressure and carrying capacity</p>	✓	✓	✓				
<p>CLO3 Students will have an analytic understanding of the impact of industrial capitalism and accelerated energy use on the global environment</p>	✓	✓		✓	✓		✓
<p>CLO4 Students will understand the relationship between commercial agriculture,</p>	✓	✓		✓	✓		



global commodities trade, shifting land tenure and food security							
CLO5 Students will be able to critically assess existing mechanisms for global environmental and resource management	✓	✓	✓	✓	✓		✓

Table 3 The description of PLOs and Sub Los of the course

PLOs	Sub PLOs
PLO1 Graduates will be able to describe and explain key features of and issues concerning the current world order, with particular attention to the Asia-Pacific region, using appropriate terminology	1.1 demonstrate an understanding of the principles upon International Relations and the Asia-Pacific region are built
	1.2 identify the national & global challenges associated with current economic, political, and social systems
	2.1 identify concepts related to the context



	of learned issues/topics
PLO2 Graduates will be able to discuss and apply major theories, approaches and methodologies in the field of international relations and global affairs in order to analyze the current world order and how it has evolved over time	1.1 demonstrate an understanding of the principles upon International Relations and the Asia-Pacific region are built
	1.2 identify the national & global challenges associated with current economic, political, and social systems
PLO3 Graduates will be proficient readers who are able to locate, evaluate, analyze and synthesize different forms of data and source materials relevant to international relations and global affairs.	2.1 identify concepts related to the context of learned issues/topics
	2.2 collect, analyse, synthesize data, & evaluate information and ideas from multiple sources
	3.1 connect, synthesize and/or transform ideas or solutions within a particular framework
PLO5 Graduates will demonstrate knowledge of and respect for cultural differences, particularly in the Thai context, and be able to work in culturally diverse groups effectively.	5.1 identify the national & global challenges associated with current economic, political, and social systems
	5.2 exhibit characteristics of responsible citizenship
	5.3 work effectively in diverse team (and multi-cultural settings)
PLO7 Graduates will demonstrate knowledge of internationally recognized ethical standards	7.1 identify ethical issues and recognize different viewpoint and ideologies



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and apply principles of ethical reasoning to decision-making, civic engagement, and research, consistently crediting the work of others	7.3 apply principle of ethical leadership, collaborative engagement, and respect diversity
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