

Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	FUTURES STUDIES IN ENVIRONMENT	Instructor	AI, CHI-HAN
Course Class	TNURB0E FUTURES STUDIES, 0E	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG6 Clean water and sanitation SDG11 Sustainable cities and communities SDG12 Responsible consumption and production		
Departmental Aim of Education			
I. To introduce basic knowledge on futures studies. II. To raise awareness and to foster positive attitude towards the future of humanities. III. To cultivate critical thinking skills with a foresight perspective. IV. To cultivate the ability to explore futures issues with interdisciplinary perspectives. V. To develop skills for spotting emerging issues.			
Subject Schoolwide essential virtues			
1. A global perspective. (ratio:20.00) 2. Information literacy. (ratio:5.00) 3. A vision for the future. (ratio:30.00) 4. Moral integrity. (ratio:5.00) 5. Independent thinking. (ratio:25.00) 6. A cheerful attitude and healthy lifestyle. (ratio:5.00) 7. A spirit of teamwork and dedication. (ratio:5.00) 8. A sense of aesthetic appreciation. (ratio:5.00)			

Course Introduction	<p>Environmental pollution and ecological destroy are increasingly severe. All the countries are paying more attention to environmental and ecological protection. The concept of 'sustainable development' has deeply taken root into people's mind.</p> <p>Therefore, in this course, we will thematically discuss ecology, population, food and water resources, minerals and energy, air, water environment and waste, transportation, natural resources, regional environment, noise, etc..so as to arouse the students' consciousness upon the green earth.</p>
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The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

- I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
- II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
- III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Through this course, the student will understand and become familiar with the following themes: ecology, population, food and water resources etc.	Cognitive
2	We will discuss about the following points: <ol style="list-style-type: none"> 1. Why these themes are important? 2. When these themes become important, their past, present and future? 3. What need to do when we know all these themes? 4. What kind of moves that other countries have adopted upon these environmental related themes? 	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345678	Lecture, Discussion, Publication	Discussion(including classroom and online), Report(including oral and written)

2		12345678	Lecture, Discussion, Publication	Testing, Discussion(including classroom and online), Report(including oral and written)
Course Schedule				
Week	Date	Course Contents		Note
1	112/09/11 ~ 112/09/17	Introduction		
2	112/09/18 ~ 112/09/24	Grouping		
3	112/09/25 ~ 112/10/01	Grouping		
4	112/10/02 ~ 112/10/08	Population		
5	112/10/09 ~ 112/10/15	Ecology		
6	112/10/16 ~ 112/10/22	Mineral and Energy		
7	112/10/23 ~ 112/10/29	Food and Water		
8	112/10/30 ~ 112/11/05	Air		
9	112/11/06 ~ 112/11/12	Midterm Exam Week		
10	112/11/13 ~ 112/11/19	Air		
11	112/11/20 ~ 112/11/26	Water Environment and Waste		
12	112/11/27 ~ 112/12/03	Transportation		
13	112/12/04 ~ 112/12/10	Natural Resources		
14	112/12/11 ~ 112/12/17	Regional Environment		
15	112/12/18 ~ 112/12/24	Noise		
16	112/12/25 ~ 112/12/31	Coal		
17	113/01/01 ~ 113/01/07	Final Exam Week		
18	113/01/08 ~ 113/01/14	Flex week, learning activities should be arranged.		
Key capabilities		self-directed learning Humanistic Caring		

Interdisciplinary	In addition to teaching content of the teacher's professional field, integrate other subjects or invite experts and scholars in other fields to share knowledge or teaching
Distinctive teaching	Special/Problem-Based(PBL) Courses
Course Content	Environmental Safety Green Energy Sustainability issue
Requirement	<p>In this course, the students need to report upon future environment related topics. The presentation should include the following elements:</p> <ol style="list-style-type: none"> 1. Why is this topic important? 2. When does this topic become important? past, present and future 3. What measures need to be taken? 4. What kind of measures have other countries taken? 5. What kind of measures have Taiwan taken? 6. In order to solve the problem, what will you propose? <p>There will be no midterm exam, nor final exam. Student's grades will be formed in several ways: 1. Attendance 2. Classroom assignments 3. Midterm report (personal report - case study) 4. Presentation 5. Final report (personal report - case study)</p>
Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Videos
References	
Grading Policy	<p>◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 20.0 %</p> <p>◆ Final Exam : 20.0 %</p> <p>◆ Other (Presentation) : 30.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php .</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>