

## Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	FUTURES STUDIES IN ENVIRONMENT	Instructor	CHEN-LING HUNG
Course Class	TNURB0B FUTURES STUDIES, 0B	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
Relevance to SDGs	SDG4 Quality education SDG6 Clean water and sanitation		
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:25.00) 3. A vision for the future. (ratio:50.00) 5. Independent thinking. (ratio:25.00)			
Course Introduction	This course introduces students to the concepts of the future of the Earth's ecosystems and environmental science related to the spheres of the environment including hydrosphere, atmosphere, and geosphere.		

**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	This course equips students with a breadth of knowledge of the future of the Earth's ecosystems and environmental science and an understanding of the importance and role of human being in the spheres of the environment.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		135	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)

**Course Schedule**

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	A Basic Overview of Environmental Science and the Future of Earth	
2	111/02/28 ~ 111/03/04	No Class	
3	111/03/07 ~ 111/03/11	The Five Spheres of the Environment and the Future of Environmental Protection	
4	111/03/14 ~ 111/03/18	The Hydrosphere and the Future of River Management	
5	111/03/21 ~ 111/03/25	Aquatic Ecosystem and the Future of Ocean Management	
6	111/03/28 ~ 111/04/01	Water Pollutants and the Future of Water Pollution Management	
7	111/04/04 ~ 111/04/08	No Class	
8	111/04/11 ~ 111/04/15	World Water Crisis and Future Climate Change	

9	111/04/18 ~ 111/04/22	Air Pollutants and the Future of Air Pollution Management	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	The Geosphere and the Future of Landscape Management	
12	111/05/09 ~ 111/05/13	Soil: Earth's Lifeline and the Future of Soil Management	Abstract submission
13	111/05/16 ~ 111/05/20	Forest Ecosystem and the Future of Forest Management	
14	111/05/23 ~ 111/05/27	Energy Resources and Top 7 Future Energy Sources	
15	111/05/30 ~ 111/06/03	Group Presentations	
16	111/06/06 ~ 111/06/10	Group Presentations	
17	111/06/13 ~ 111/06/17	Review of the Future Environment	Submission of a report on what you have learned
18	111/06/20 ~ 111/06/24	Final Exam Week	
Requirement			
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Environmental Science (16th) by G. Tyler Miller and Scott Spoolman, Boston, Massachusetts: National Geographic Learning and Cengage Learning.		
References	The Nature of Tomorrow: A History of the Environmental Future (2021) by Michael Rawson, New Haven, Connecticut: Yale University Press. The Future Earth: A Radical Vision for What's Possible in the Age of Warming (2020) by Eric Holthaus, San Francisco, California: HarperOne.		
Number of Assignment(s)	10 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 15.0 %   ◆ Mark of Usual : 35.0 %   ◆ Midterm Exam : 35.0 % ◆ Final Exam : % ◆ Other 〈Group Project〉 : 15.0 %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>✘ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>		