Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	EARTH'S ECOSYSTEMS AND ENVIRONMENT	Instructor	LEE, MING-HSIEN
Course Class	TNUZB0B GLOBAL TECHNOLOGY REVOLUTION, 0B	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG3 Good health and well-being for people SDG13 Climate action SDG14 Life below water SDG15 Life on land		

Departmental Aim of Education

Students will understand recent development of modern science and technology and its impact on human society and global environment. Through the design of course students will also be familiar with broadly-based fundamental technical knowledge and improve.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:70.00)
2. Information literacy. (ratio:10.00)
3. A vision for the future. (ratio:20.00)

Course Introduction	Learnning the formation history for our planet Earth and the Evolution of Life on Raeth is a key to understand how matter and creatures mutually influence with each other in making this ecosystem, and is therefore important to maintain sustainable environment for the survival of mankind and civilization.

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	Understand the formation of the Earth, evolution of life and environmental issues that mankind faced and facing.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		123	Lecture, Discussion	Testing

Course Schedule

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	Introduction of the course	
2	111/02/28 ~ 111/03/04	Earth Story 1: The Time Travellers	
3	111/03/07 ~ 111/03/11	Earth Story 2: The Deep	
4	111/03/14 ~ 111/03/18	Earth Story 3: Ring of Fire	
5	111/03/21 ~ 111/03/25	Earth Story 4: Journey to the Centre of the Earth	
6	111/03/28 ~ 111/04/01	Earth Story 5: The Roof of the World	
7	111/04/04 ~ 111/04/08	Earth Story 6: The Big Freeze	
8	111/04/11 ~ 111/04/15	Earth Story 7: The Living Earth	
9	111/04/18 ~ 111/04/22	Earth Story 8: A World Apart	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Exam questions discussion and recheck	
12	111/05/09 ~ 111/05/13	Evolution (First Life Ep1 and Ep2)	

13	111/05/16～ 111/05/20	Status of the Planet (part 1 and 2)	
14	111/05/23～ 111/05/27	Status of the Planet (part3 and discussion)	
15	111/05/30～ 111/06/03	Special Topics : GMO	
16	111/06/06～ 111/06/10	Special Topics : Seeds	
17	111/06/13～ 111/06/17	Special Topics : Antibiotics	
18	111/06/20～ 111/06/24	Final Exam Week	

Requirement	Website http://boson4.phys.tku.edu.tw
Teaching Facility	Computer
Textbooks and Teaching Materials	website http://boson4.phys.tku.edu.tw
References	website http://boson4.phys.tku.edu.tw
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual： % ◆ Midterm Exam： 50.0 % ◆ Final Exam： 50.0 % ◆ Other〈 〉： %
Note	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 . **※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**