## Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	Course Title BIOTECHNOLOGY		CHEN, YAU-HUNG					
Course Class	ss TNUZBOD GLOBAL TECHNOLOGY REVOLUTION, 0D Det		<ul> <li>General Course</li> <li>Required</li> <li>One Semester</li> <li>2 Credits</li> </ul>					
Relevance to SDGs	SDG3 Good health and well-being for people 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 globa	l perspective. (ratio:20.00)							
2. Informa	tion literacy. (ratio:10.00)							
3. A vision	for the future. (ratio:20.00)							
4. Moral ir	itegrity. (ratio:10.00)							
5. Indeper	5. Independent thinking. (ratio:10.00)							
6. A cheer	ful attitude and healthy lifestyle. (ratio:10.00)							
7. A spirit of teamwork and dedication. (ratio:10.00)								
8. A sense of aesthetic appreciation. (ratio:10.00)								
Course Introduction	Under the architecture of technology, this course will lead stu understanding of the origin and kinds of biotechnology by ca the discussion of the concomitant ethics and legal issues, also the emerging newly developing frontiers of biotechnology.	udents to the ase studies, ar o exploration (	nd of					

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.							
<ul> <li>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</li> <li>II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</li> <li>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</li> </ul>							
No.			objective methods				
1	Understanding of the origin, kinds of biotechnology;				Affective		
	issues; explor	the condration of	reloping				
	frontiers of bi	iotechno	llogy.				
	The c	orrespond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1			12345678	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Oral presentation or face to face discus		
				Course Schedule			
Week	Date	Course Contents Note					
1	113/09/09~ 113/09/15	Introdu	Introduction				
2	113/09/16~ 113/09/22	What is	What is technology? What is biotechnology?				
3	113/09/23~ 113/09/29	The Bic	The Biotechnology Century and Its Workforce				
4	113/09/30~ 113/10/06	An Intr	An Introduction to Genes and Genomes				
5	113/10/07 ~ 113/10/13	Holida	Holiday				
6	113/10/14~ 113/10/20	Recom	Recombinant DNA Technology and Genomics				
7	113/10/21 ~ 113/10/27	Proteir	Proteins as Products				
8	113/10/28 ~ 113/11/03	DNA Fingerprinting and Forensic Analysis					
9	113/11/04~ 113/11/10	Lab visiting I					
10	113/11/11~ 113/11/17	Lab visiting II					

11	113/11/18~ 113/11/24	Animal Biotechnology
12	113/11/25~ 113/12/01	Aquatic Biotechnology
13	113/12/02 ~ 113/12/08	Medical Biotechnology
14	113/12/09~ 113/12/15	Black Biotechnology - Bioterrorism
15	113/12/16~ 113/12/22	Discussion I
16	113/12/23 ~ 113/12/29	Discussion II
17	113/12/30~ 114/01/05	Final Exam/Final Assessment Week (teachers can adjust the week as needed)
18	114/01/06~ 114/01/12	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.
Кеу	v capabilities	
Interdisciplinary		
Distinctive teaching		
Course Content		Logical Thinking Environmental Safety
Requirement		
Textbooks and Teaching Materials		Using teaching materials from other writers:Presentations
R	eferences	
Grading Policy		<ul> <li>Attendance: 30.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 10.0 %</li> <li>Final Exam: 40.0 %</li> <li>Other ⟨Oral presentation⟩: 20.0 %</li> </ul>

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 <u>http://www.acad.tku.edu.tw/CS/main.php</u> .
	※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

TNUZB0E2523 0D

Page:4/4 2024/9/11 16:10:43

-