

Tamkang University Academic Year 102, 1st Semester Course Syllabus

Course Title	CHEMISTRY IN LIFE	Instructor	CHEN KAN-NAN
Course Class	TLFXB1A DEPARTMENT OF INTERNATIONAL BUSINESS, 1A	Details	<ul style="list-style-type: none"> ◆ Required ◆ One Semester ◆ 2 Credits
Academic teaching objectives			
<p>By exploring natural laws and studying scientific methods, to let students understand the impact of science and technology on human life, and to cultivate in them the ability to think independently, and to discover, analyse and solve problems. Also, throu.</p>			
Schoolwide essential virtues			
<ul style="list-style-type: none"> A. A global perspective. B. Information literacy. C. A vision for the future. D. Moral integrity. E. Independent thinking. F. A cheerful attitude and healthy lifestyle. G. A spirit of teamwork and dedication. H. A sense of aesthetic appreciation. 			
Course Introduction	<p>Most of undergraduates just learned applications of basic-chemistry were not enough. This series of courses attempts to help students with basic theory and applications of chemistry. Learning the new knowledge and studying for the purpose of application is the main target of this course.</p>		

The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues

I. Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,
A4-Organizing, A5-Characterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3, C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Schoolwide essential virtues that correspond to each teaching objective. Each objective may correspond to one or more Schoolwide essential virtues at a time. (For example, if one objective corresponds to three Schoolwide essential virtues: A, AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Schoolwide essential virtues
1	Students will be able to learn basic classifications of chemical materials.	C3	ABD

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Students will be able to learn basic classifications of chemical materials.	Lecture, Discussion, Practicum, Problem solving	Written test, Report, Participation

Course Schedule

Week	Date	Subject/Topics	Note
1	102/09/16~ 102/09/22	Introduction of chemistry	
2	102/09/23~ 102/09/29	Define Chemistry	
3	102/09/30~ 102/10/06	Examples of chemical materials in life	
4	102/10/07~ 102/10/13	Chemical materials : Food	
5	102/10/14~ 102/10/20	Chemical materials : Food Additives	
6	102/10/21~ 102/10/27	Chemical materials : Fiber	
7	102/10/28~ 102/11/03	Chemical materials : Plastic	
8	102/11/04~ 102/11/10	Chemical materials : Polymer(1)	

9	102/11/11 ~ 102/11/17	Chemical materials : Polymer(2)	
10	102/11/18 ~ 102/11/24	Midterm Exam Week	
11	102/11/25 ~ 102/12/01	Chemical materials : Wine	
12	102/12/02 ~ 102/12/08	Chemical materials : Dye	
13	102/12/09 ~ 102/12/15	Chemical materials : Pigment	
14	102/12/16 ~ 102/12/22	Chemical materials : Flame Prevention	
15	102/12/23 ~ 102/12/29	Chemical materials : Surfactant	
16	102/12/30 ~ 103/01/05	Chemical materials : Nuclear Energy	
17	103/01/06 ~ 103/01/12	Chemical materials : Recycle	
18	103/01/13 ~ 103/01/19	Final Exam Week	
Requirement	全程英文授課		
Teaching Facility	Computer, Projector		
Textbook(s)	自製投影片與講義		
Reference(s)	隨堂指定・閱讀文獻(材料化學S C I期刊)		
Number of Assignment(s)	4 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 30.0 % ◆ Mark of Usual : % ◆ Midterm Exam : % ◆ Final Exam : 20.0 % ◆ Other 〈小考〉 : 50.0 %		
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.		