

Tamkang University Academic Year 105, 1st Semester Course Syllabus

Course Title	CHEMISTRY, MEDICINE AND SOCIETY	Instructor	HSIEH, JEN-CHIEH
Course Class	TNUUB0A NATURAL SCIENCES, 0A	Details	◆ Required ◆ One Semester ◆ 2 Credits
Academic Aim of Education			
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.			
Schoolwide essential virtues			
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	Basic knowledge of general chemistry and medicinal chemistry.		

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	To understand the basic knowledge of the general chemistry, medicinal chemistry and the relationship between chemistry and social responsibilities.	C2	ABCD

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand the basic knowledge of the general chemistry, medicinal chemistry and the relationship between chemistry and social responsibilities.	Lecture, Discussion	Written test, Report, Participation, attendance

Course Schedule

Week	Date	Subject/Topics	Note
1	105/09/12 ~ 105/09/18	Basic information and the rules of this class	
2	105/09/19 ~ 105/09/25	Introduction of the general chemistry	
3	105/09/26 ~ 105/10/02	Introduction of the general chemistry	
4	105/10/03 ~ 105/10/09	Basic principles and theories of the general chemistry	
5	105/10/10 ~ 105/10/16	Basic principles and theories of the general chemistry	

6	105/10/17 ~ 105/10/23	Introduction of the medicinal chemistry	
7	105/10/24 ~ 105/10/30	Introduction of the medicinal chemistry	
8	105/10/31 ~ 105/11/06	Introduction of the medicinal chemistry	
9	105/11/07 ~ 105/11/13	Drug delivery and the neurotransmitter	
10	105/11/14 ~ 105/11/20	Midterm Exam Week	
11	105/11/21 ~ 105/11/27	Drug delivery and the neurotransmitter	
12	105/11/28 ~ 105/12/04	industry of the medicinal chemistry	
13	105/12/05 ~ 105/12/11	Pharmaceutical design and the structures of some medicine	
14	105/12/12 ~ 105/12/18	Pharmaceutical design and the structures of some medicine	
15	105/12/19 ~ 105/12/25	Mechanism of the tumor growth	
16	105/12/26 ~ 106/01/01	Cancer and antitumor	
17	106/01/02 ~ 106/01/08	Cancer and antitumor	
18	106/01/09 ~ 106/01/15	Final Exam Week	
Requirement			
Teaching Facility		Computer, Projector	
Textbook(s)		化學與生活：化學、醫藥與社會	
Reference(s)			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance：30.0 % ◆ Mark of Usual： % ◆ Midterm Exam：20.0 % ◆ Final Exam：10.0 % ◆ Other 〈reports〉：40.0 %	

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>
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