

Tamkang University Academic Year 104, 1st Semester Course Syllabus

Course Title	TECHNICAL WRITING	Instructor	CHANG, YU-CHI
Course Class	TEDXM1A MASTER'S PROGRAM, DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING, 1A	Details	◆ Selective ◆ One Semester ◆ 1 Credits
D e p a r t m e n t a l A i m o f E d u c a t i o n			
Education Objectives: Cultivation of chemical/materials engineering experts with professional knowledge and high R & D capabilities.			
D e p a r t m e n t a l c o r e c o m p e t e n c e s			
A. Possess the advanced knowledge of chemical/material engineering and to be able to use it. B. Capable to plan and execute the chemical/material engineering projects. C. Capable of writing professional papers. D. Capable of creative thinking and independent problem- solving. E. To have the inter-discipline communication and coordination skills with others. F. Possess wide global vision. G. Qualified capacity for leadership, management and planning. H. Capable to sustain the interdisciplinary self-training.			
Course Introduction	The following topics will be covered: a short guide to english grammar, a breviary of english usage and common usage problems, basic reading technique, and introduction to scientific english writing.		

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

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 Departmental core competences :

- (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 Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	To review basic grammar and usage. To instruct students how to write scientific english and to learn the essentials of research paper.	C3	ABC

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To review basic grammar and usage. To instruct students how to write scientific english and to learn the essentials of research paper.	Lecture, Discussion	Report, Participation

This course has been designed to cultivate the following essential qualities in TKU students			
Essential Qualities of TKU Students		Description	
◇ A global perspective		Helping students develop a broader perspective from which to understand international affairs and global development.	
◆ Information literacy		Becoming adept at using information technology and learning the proper way to process information.	
◇ A vision for the future		Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
◇ Moral integrity		Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
◆ Independent thinking		Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
◇ A cheerful attitude and healthy lifestyle		Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
◇ A spirit of teamwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
◇ A sense of aesthetic appreciation		Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
Course Schedule			
Week	Date	Subject/Topics	Note
1	104/09/14 ~ 104/09/20	a short guide to english grammar	
2	104/09/21 ~ 104/09/27	a short guide to english grammar	
3	104/09/28 ~ 104/10/04	english usage and common problems	
4	104/10/05 ~ 104/10/11	english usage and common problems	
5	104/10/12 ~ 104/10/18	english usage and common problems	
6	104/10/19 ~ 104/10/25	reading technique	
7	104/10/26 ~ 104/11/01	reading technique	
8	104/11/02 ~ 104/11/08	scientific english writing	
9	104/11/09 ~ 104/11/15	scientific english writing	
10	104/11/16 ~ 104/11/22	scientific english writing	
11	104/11/23 ~ 104/11/29	scientific english writing	
12	104/11/30 ~ 104/12/06	scientific english writing	

13	104/12/07 ~ 104/12/13	scientific english writing	
14	104/12/14 ~ 104/12/20	scientific english writing	
15	104/12/21 ~ 104/12/27	presentation	
16	104/12/28 ~ 105/01/03	presentation	
17	105/01/04 ~ 105/01/10	presentation	
18	105/01/11 ~ 105/01/17	presentation	
Requirement			
Teaching Facility		Other (blackboard)	
Textbook(s)		handouts	
Reference(s)			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 % ◆ Mark of Usual : % ◆ Midterm Exam : 40.0 % ◆ Final Exam : % ◆ Other 〈presentation〉 : 40.0 %	
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.	