Tamkang University Academic Year 104, 1st Semester Course Syllabus

Course Title	SCIENTIFIC ENGLISH WRITING AND READING	Instructor	FAN, SU-LING
Course Class	TECXM1A MASTER'S PROGRAM, DEPARTMENT OF CIVIL ENGINEERING, 1A	Details	◆ Selective ◆ One Semester ◆ 2 Credits

Departmental Aim of Education

Ⅰ. Develop students' ability and knowledge of civil engineering to meet the requirements of employability and further education.

Ⅱ. Equip students with the ability to integrate engineering profession and information technology to strengthen their competitiveness.

Ⅲ. Enable students to understand the international trends, and to activate a lifelong learning concept.

Departmental core competences

A. Each student should have the advanced professional knowledge of engineering design and analysis.

B. Each student should have the ability to integrate interdisciplinary knowledge and information technology.

C. Each student should have independent thinking and ability of research conducting and dissertation writing.

D. Each student should have the ability of effective communication, team work integration and leadership.

E. Each student should the concept of lifelong learning and international sustainability.

Course Introduction	This course covers key elements of technical writing, pre-writing planning, structure and format of writing, effective ways of writing an abstract, and skills of oral presentation

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-Charaterizing,　 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	This course covers key elements of technical writing, pre-writing planning, structure and format of writing, effective ways of writing an abstract, and skills of oral presentation.	C3	CDE

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	This course covers key elements of technical writing, pre-writing planning, structure and format of writing, effective ways of writing an abstract, and skills of oral presentation.	Lecture, Discussion, Practicum	Practicum, 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	課程介紹、重要期刊介紹	
2	104/09/21 ~ 104/09/27	期刊文章閱讀 與期刊文章架構	
3	104/09/28 ~ 104/10/04	期刊文章重要英語詞彙與用語	
4	104/10/05 ~ 104/10/11	期刊文章類型	
5	104/10/12 ~ 104/10/18	摘要寫作練習	
6	104/10/19 ~ 104/10/25	文獻回顧寫作練習	
7	104/10/26 ~ 104/11/01	文獻回顧寫作練習二	
8	104/11/02 ~ 104/11/08	文獻回顧寫作練習三	
9	104/11/09 ~ 104/11/15	期中報告繳交	
10	104/11/16 ~ 104/11/22	研究方法介紹	
11	104/11/23 ~ 104/11/29	研究方法寫作練習	
12	104/11/30 ~ 104/12/06	研究成果介紹	

13	104/12/07 ~ 104/12/13	研究成果寫作練習	
14	104/12/14 ~ 104/12/20	結論與討論介紹	
15	104/12/21 ~ 104/12/27	結論與討論寫作練習	
16	104/12/28 ~ 105/01/03	簡報製作	
17	105/01/04 ~ 105/01/10	上台簡報	
18	105/01/11 ~ 105/01/17	期末報告繳交	

Requirement	課程參與含報告
Teaching Facility	(None)
Textbook(s)	
Reference(s)	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual： % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈課程參與〉：100.0 %
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.**