Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	SEMINAR (III)	Instructor	CHIA-CHI HUANG
Course Class	TSCXM1A MASTER'S PROGRAM, DEPARTMENT OF CHEMISTRY, 1A	Details	◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG4 Quality education SDG5 Gender equality SDG16 Peace, justice and strong institutions		

Departmental Aim of Education

Ⅰ. Cultivate the advanced professional knowledge and experimental techniques.

Ⅱ. Cultivate the capacity of practical implementation.

Ⅲ. Cultivate professional ethics and lifelong learning.

Subject Departmental core competences

A. Possess advanced knowledge in chemistry such as organic, physical, inorganic, and instrumental analysis, and extend them into biochemistry, material chemistry, and related chemistry.(ratio:40.00)

B. Possess basic experimental chemistry techniques and apply them to other chemistry-related experimental works.(ratio:20.00)

C. Possess basic research ability and seminar participation in chemistry-related projects, and independently finish writing the research paper.(ratio:10.00)

E. Possess collecting and analyzing information in chemistry and apply them to solve chemistry problems.(ratio:30.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:40.00)

2. Information literacy. (ratio:20.00)

3. A vision for the future. (ratio:20.00)

5. Independent thinking. (ratio:20.00)

Course Introduction	Students taking this course are required to peruse chemistry research articles recently published in a journal with substantial impact factors. Students will orally present the article according to their understanding to class peers. The course does not focus on the speech performance or expert evaluation of the research by the students. Instead, it is oriented to strengthen their learning method by switching from a textbook-based give-and-accept mode to a more productive give-and-analyze mode.

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.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	By reading, the students taking this course will learn the prevalent journal format and how chemists persuade with their research results. Another objective of this course is to help students discover through in-class discussion the trend, goals, methods, and standards of current chemistry research.	Affective

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCE	1235	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Attendance

Course Schedule

Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Introduction	
2	110/09/29 ~ 110/10/05	Presentation, Q&A	
3	110/10/06 ~ 110/10/12	Presentation, Q&A	

4	110/10/13～ 110/10/19	Presentation, Q&A	
5	110/10/20～ 110/10/26	Presentation, Q&A	
6	110/10/27～ 110/11/02	Presentation, Q&A	
7	110/11/03～ 110/11/09	Presentation, Q&A	
8	110/11/10～ 110/11/16	Presentation, Q&A	
9	110/11/17～ 110/11/23	Midterm exam	
10	110/11/24～ 110/11/30	Presentation, Q&A	
11	110/12/01～ 110/12/07	Presentation, Q&A	
12	110/12/08～ 110/12/14	Presentation, Q&A	
13	110/12/15～ 110/12/21	Presentation, Q&A	
14	110/12/22～ 110/12/28	Presentation, Q&A	
15	110/12/29～ 111/01/04	Presentation, Q&A	
16	111/01/05～ 111/01/11	Presentation, Q&A	
17	111/01/12～ 111/01/18	Final exam	
18	111/01/19～ 111/01/25	Self-directed learning	

Requirement	Presentation: 40% Q&A: 20%
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	SCI Journals
References	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 40.0 % ◆ Mark of Usual： % ◆ Midterm Exam： % ◆ Final Exam： % ◆ Other〈Presentation, Q&A〉：60.0 %

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.**