

COURSE SYLLABUS

1. **Program of Study** Bachelor of Science (Chemistry)
Faculty International College, Mahidol University
2. **Course Code** ICCH 455
Course Title Senior Project in Chemistry
3. **Number of Credits** 6 (0-12-6) (**Lecture/lab/self-study**)
4. **Prerequisites** Seniors or with special permission of instructors
5. **Type of Course:** Required major course
6. **Semester / Academic Year:**
Second trimester 2006-2007
7. **Course Conditions:** Number of students between 20-30
8. **Course Description:**
Small research project in chemistry under supervision of an advisor. The course is designed for the chemistry major to be acquainted with the techniques, management and the implementation of a research project.
9. **Course Objectives:**
After successful completion of this course, students should be able to
 - 9.1 conduct independent research;
 - 9.2 conduct independent literature search using acceptable chemical databases;
 - 9.3 identify research topics and problems and to develop these problems into a project.

10. Course Outline

Week	Topics				Instructor
	Lecture/Seminar	Hour	Lab	Hour	
1	-	0	Research	12	
2	-	0	Research	12	
3	-	0	Research	12	
4	-	0	Research	12	
5	-	0	Research	12	
6	-	0	Research	12	
7	-	0	Research	12	
8	-	0	Research	12	
9	-	0	Research	12	
10	-	0	Research	12	
11	-	0	Research	12	

12	-	0	Research	12	
	Total	0		144	

11. Teaching Methods:

- 11.1 Independent research
- 11.2 Self-study
- 11.3 Group discussion and presentation

12. Teaching Media:

None

13. Course Achievement:

Student achievement is measured and evaluated by

- 13.1 the ability to conduct independent research;
- 13.2 the ability to conduct independent literature search using acceptable chemical databases;
- 13.3 the ability to identify research topics and problems and to develop these problems into a project.

Student's achievement will be graded according to the College and University standard using the symbols: A, B+, B, C+, C, D+, D and F. Students must attend at least 80% of the total class hours of this course.

Assessment made from the set-forward criteria: student who gets 85% and above will have Grade A. Research paper and to be written in English.

14. Course Evaluation:

- 14.1 Students' achievement as indicated in number 13 above.
- 14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. References:

None

16. Instructors:

Dr. Pakorn Bovonsombat

17. Course Coordinator:

Dr. Pakorn Bovonsombat

Mahidol University International College, Mahidol University

Telephone: 02-4410595 ext. 1529

E-mail: icpakorn@mahidol.ac.th