

## Course Syllabus

- |                                   |  |
|-----------------------------------|--|
| <b>1. Program of Study</b>        | Bachelor of Science Program  |
| <b>Faculty/Institute/College</b>  | Mahidol University International College   |
| <b>2. Course Code</b>             | ICSC 302   |
| <b>Course Title</b>               | Scientific Research and Presentations  |
| <b>3. Number of Credits</b>       | 4 (4-0-8) (Lecture/Lab/Self-study)   |
| <b>4. Prerequisites</b>           | None   |
| <b>5. Type of Course</b>          | Core Science Course  |
| <b>6. Trimester/Academic Year</b> | 1 <sup>st</sup> and 3 <sup>rd</sup> trimester  |
| <b>7. Course Condition</b>        | None   |
| <b>8. Course Description</b>      | Scientific method of discovery; developing a hypothesis and testing, interpretation of the results; proper format for presenting papers in public and in a scientific forum; practical sessions and participation in scientific seminars included. |
| <b>9. Course Objectives</b>       | After successful completion of this course, students should be able to   |
|                                   | 1. search information and to have a criticism of the sources.  |
|                                   | 2. write scientific papers.  |
|                                   | 3. critically review scientific papers.  |
|                                   | 4. present scientific papers.  |
|                                   | 5. oppose others reports.  |

## 10. Course Outline

Week	Topics	Hours			Instructor
		Lecture	Lab	Self study	
1	Introduction & guidelines to scientific presentation	4	0	8	Dr. Michael Hurt
2	The arts of seminar presentation and public speaking	4	0	8	Dr. Michael Hurt
3	Research & its significance Ethic and plagiarism in research Study designs in medical research	4	0	8	Dr. Michael Hurt
4	Clinical trial & good clinical practice Study design and choosing a statistical test	4	0	8	Dr. Michael Hurt
5	Writing a research project: essential elements Ethic and plagiarism in writing	4	0	8	Dr. Michael Hurt
6	<b>Midterm examination</b>	4	0	8	Dr. Michael Hurt
7-8	Students' presentation	4	0	8	Dr. Michael Hurt
9	Data presentation & relevant biostatistics	4	0	8	Dr. Michael Hurt
10-11	Students' presentation	4	0	8	Dr. Michael Hurt
	<b>Total</b>	<b>44</b>	<b>0</b>	<b>88</b>	
Final Examination					

## 11. Teaching Methods

Method of teaching consists of lecturing, assignments, seminar, mini conference, and presentation.

## 12. Teaching Media

Textbooks, Handouts and LCD projectors.

### **13. Measurement and Evaluation of Student Achievement**

Student achievement is measured and evaluated by

- 13.1 the ability to search information and to have a criticism of the sources.
- 13.2 the ability to write scientific papers.
- 13.3 the ability to critically review scientific papers.
- 13.4 the ability to present scientific papers.
- 13.5 the ability to oppose others reports.

Mid-term examination	35%
Final examination	35%
Presentation, report, seminar and attendance	30%
Total	100%

Students will be evaluated from their total score (out of 100%). Grading system is A, B+, B, C+, C, D+, D, and F.

### **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. Reference**

- Shelly, G.B., Cashman, T.J. and Sebok, S.L. Microsoft Powerpoint 2000 Complete Concepts and Techniques. USA. Course Technology. 1999.
- Booth, V. Communicating in science: Writing a Scientific Paper and Speaking at Scientific Meetings. 2<sup>nd</sup> Edition. USA. Cambridge University Press. 1993.

### **16. Instructors**

Dr. Michael Hurt

### **17. Course Coordinator**

Associate Professor Dr. Prayad Pokethitiyook