Course Syllabus

1. Name of Curriculum Bachelor of Science (Biological Science).
Faculty/Institute/College International College, Mahidol University

2. Course Code ICBI 402
Course Title Epidemiology

3. Number of Credits 4(3-2-7) (Lecture / Lab./self-study)

4. Prerequisite ICBI 211, ICBI 412

5. Type of Course Elective course

6. Trimester / Academic year
Second or third trimester of every academic year

7. Course Condition
Number of students is 20-30.

8. Course Description
Prevalence of endemic health problems caused by infectious diseases or non-infectious disorders; diseases of Southeast Asia in comparison with those occur in tropical Africa and America. Field studies are included.

9. Course Objective
By the end of the course, students should be able to
-Understand the prevalence of endemic health problems caused by infectious diseases or non-infectious disorders.
-Understand the differences between the diseases in Southeast Asia and those occur in tropical Africa and America

10. Course Outline

week	Topics/Seminar	Hours			Instructor
		Lecture	Lab	Self-study	
1	-Natural history of disease and levels of prevention. -Introduction to infectious disease Epi.	3	2	7	William Bloch
2	Disease measurements: -Morbidity -Mortality rates and adjustment	3	2	7	William Bloch
3	Causation in epidemiology and in other fields	3	2	7	William Bloch
4	Diagnostic tests	3	2	7	William Bloch
5	Study design: -Randomized trials -Cohort studies	3	2	7	William Bloch
6	Study design and analysis: Case-control and cross-sectional studies	3	2	7	William Bloch
7	**Midterm Exam**	3	2	7	William Bloch

8	Concept of risk Measures of risk and applications	3	2	7	William Bloch
9	Bias, confounding and interaction	3	2	7	William Bloch
10	Chronic disease Epi and life course models	3	2	7	William Bloch
11	Epi and public policy	3	2	7	William Bloch
Final Exam					
	Total	33	22	77	

11. Teaching Method *(s)*

1. Lecture
2. Suggested readings
3. Discussion in class
4. Case study

12. Teaching Media

1. Powerpoint Presentations
2. Texts and teaching materials
3. Case study

13. Measurement and Evaluation of Student Achievement

Student achievement is measured and evaluated by

13.1 The ability to understand the prevalence of endemic health problems caused by infectious diseases or non-infectious disorders.

13.2 The ability to describe the differences between the diseases in Southeast Asia and those occur in tropical Africa and America

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. Minimal passing level is 60%. Student who earns 85% up will have Grade A, 80-84% Grade B+ , 75-79% Grade B, 70-74% Grade C+, 65-69% Grade C, 60-64% Grade D+, 55-59% D, less than 55 Grade F. Students must attend at least 80% of the total class hours of this course.

Ratio of mark

Midterm Examination	40%
Final Examination	40%
Assignments and quizzes	20%
Total	100%

Range judges: $X \pm 2SD$ will be C^{+} - C

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

Rothman, K.J. Epidemiology: An introduction. UK. Oxford University Press. 2002.

16. Instructors

Dr. William Bloch

17. Course Coordinator

Associate Professor Dr. Prayad Pokethitiyoke.