

Applied Thai Traditional Medicine, College of Allied Health Sciences Suan Sunandha

Rajabhat University

ATM4959 Epidemiology

**1. General Information**

**1.1 Course code and name**

ATM4959 Epidemiology

**1.2 Credits or hours**

3(3-0-6) credit (Lecture-Practice-Self-study)

**1.3 Degree offered and major**

Applied Thai Traditional Medicine Students of Bachelor's Degree.

**1.4 Name of instructor**

Saengsit kritsadee, ATM.Dr., Ph.D.

Assist.prof. Supalak Fakkham ATM.Dr., Ph.D.

Kingkeaw Jangsawad, ATM.Dr., Ph.D.

**1.5 Semester/year of study**

Semester 2/2022

**1.6 Pre-requisites**

-None-

**1.7 Co-requisites**

-None-

**1.8 Place of study**

College of Allied Health Sciences, Suan Sunandha Rajabhat University

**1.9 Previous date of adjustment**

15 October 2022

## 2 Course management

### 2.1 Course description

Definition and evolution of epidemiology, Factors and elements that influence the distribution, Epidemiological measurement, Epidemiological study model, Surveillance and investigation, Community health, Application of epidemiology and community health to Thai traditional medicine

### 2.2 Hours/semester

Lecture/Seminar/week	Fieldwork/week	Self-study/week (recommended)
3	0	6

### 2.3 Hours/week that the instructor individually gives academic advice and directions to students

LINE group contact and appointment upon request

### **3. Learning Process**

#### **3.1 Ethics and Morals**

##### **3.1.1 Points of morals and ethics to develop**

3.1.1.1 Respect culture through using speaking and writing properly

3.1.1.2 Ethical writing

##### **3.1.2 Teaching methods**

3.1.2.1 Discussion

3.1.2.2 Interaction

##### **3.1.3 Evaluation**

3.1.3.1 Behavioral observation

3.1.3.2 Class Attendance

#### **3.2 Knowledge**

##### **3.2.1 Contents to receive**

3.2.1.1 The symptoms in internal medicine, obstetrics and pediatrics consist of causes of disease, clinical signs and symptoms

##### **3.2.2 Teaching methods**

3.2.2.1 Lecture

3.2.2.2 Practice (group and individual) 3.2.2.3 Self-study

3.2.2.4 Group discussion

3.2.2.5 Case Study

##### **3.2.3 Evaluation**

3.2.3.1 Group discussion

3.2.3.2 Quality of writing and delivering diagnosis presentations

#### **3.3 Cognitive skills**

##### **3.3.1 Skills to develop**

3.3.1.1 The ability to read, understand, summarize, paraphrase and present data in a coherent manner

##### **3.3.2 Teaching methods**

3.3.2.1 Lead lecture

3.3.2.2 Student presentations

### **3.3.3 Evaluation**

3.3.3.1 Group appraisal

3.3.3.2 Behavioral observation

## **3.4 Interpersonal skills and responsibility**

### **3.4.1 Skills to develop**

3.4.1.1 Responsibility for delivering assignments

### **3.4.2 Teaching methods**

3.4.2.1 Practice (group and individual)

3.4.2.2 Discussion

### **3.4.3 Evaluation**

3.4.3.1 Observation with appropriate feedback

## **3.5 Numeric analysis, communication and information technology skills**

### **3.5.1 Interpersonal skills and responsibility that need to be developed**

3.5.1.1 The ability to use technology in the creation and presentation of academic work

3.5.1.2 The ability to communicate in a professional manner with other people, using both speech and written communications

### **3.5.2 Teaching methods**

3.5.2.1 Introductory lecture

3.5.2.2 Skills workshop

3.5.2.3 Student centered exercises (both oral and written)

### **3.5.3 Evaluation**

3.5.3.1 Clinical interview evaluation (scenario)

3.5.3.2 Quality of presented from scenario

#### 4. Lesson plan and evaluation

Week	Topics	Hours		
		Lecture	Practice	Self-study
1	Concept of Epidemiology	3	0	6
2	Principles of Epidemiology	3	0	6
3	Person Place and Time	3	0	6
4	Measures of Morbidity and Mortality	3	0	6
5	Screening for disease	3	0	6
6	Health indices	3	0	6
7	Measurement of Risk	3	0	6
8	Measures of Morbidity and Mortality	3	0	6
9	Experimental Epidemiology	3	0	6
10	Control Bias	3	0	6
11	sample size and statistical power	3	0	6
12	Study Design in Epidemiology and Measurement of Risk	3	0	6
13	Epidemiologic Aspects of Infectious Diseases	3	0	6
14	Investigation of Epidemics	3	0	6
15	Epidemiology in public health planning	3	0	6
Total		45	0	90

## **5. Learning resources**

### **5.1 Main textbook**

None

### **5.2 Other important documents**

None

### **5.3 Recommended Readings**

5.3.1 Annette Bachand, Introduction to Epidemiology: Colorado State University,  
Department of Environmental Health

## **6. Evaluation and Continuing Development**

### **6.1 Evaluation by Students**

- Group discussion between the teacher and the students
- Teacher and Course Evaluation Questionnaire where students are asked to list their recommendations for course improvements.

### **6.2 Improvement suggestions based around the teaching methodologies employed**

- Results from testing
- Reflection of the evaluations and student feedback

### **6.3 Course Development**

After looking at improvement suggestions, meetings will be held among instructors in the Applied Thai traditional Medicine department in order to review and implement further improvements

### **6.4 Process of course revision and development plan**

Course improvement reviews will be undertaken at the end of every academic year.