



Program: Bachelor of Science (Biomedical Science) Program Level ☒ Bachelor ☐ Graduate Diploma ☐ Master ☐ Higher Graduate Diploma ☐ Doctor

Course Title: Common Diseases across Life Span

Faculty of Science

Course Code: SCSi 271

Department of Pathobiology

## Course Specification

### Section 1 General Information

#### 1. Course Code and Title

In Thai โรคพบบ่อยในทุกช่วงวัย

In English Common Diseases across Life Span

#### 2. Number of Credits

2

(Theory 2 hrs. Practice 0 hrs. Self-Study 4 hrs./week)

#### 3. Curriculum and Course Type

3.1 Program Bachelor of Science (Biomedical Science)

3.2 Course Type Specific Course ☐ Compulsory Course ☒ Elective Course

#### 4. Course Coordinator and Instructor

4.1 Course Responsible Instructor Phongthon Kanjanasirirat, Ph.D.

Department of Pathobiology, Faculty of Science,  
Mahidol University

E-mail: [phongthon.kan@mahidol.ac.th](mailto:phongthon.kan@mahidol.ac.th)

Tel. 02-201-5550

##### 4.2 Instructors

- |    |     |   |   |
|----|-----|---|---|
| 1. | ANJ | = | Associate Professor Amornrat Naranuntarat Jensen, Ph.D. |
| 2. | PC  | = | Associate Professor Pornthip Chaichompoo, Ph.D.         |
| 3. | NK  | = | Niwat Kangwanrangsan, Ph.D.                             |
| 4. | NC  | = | Nisamanee Charoenchon, Ph.D.                            |
| 5. | YN  | = | Yaowarin Nakornpakdee, Ph.D.                            |
| 6. | TP  | = | Thanalai Poonsiri, Ph.D.                                |
| 7. | PK  | = | Phongthon Kanjanasirirat, Ph.D.                         |
| 8. | AS  | = | Athisri Sitthipunya, Ph.D.                              |
| 9. | CN  | = | Chonnapat Narktubtim, Ph.D.                             |



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## 5. Semester/Class Level

- 5.1 Semester 2<sup>nd</sup> semester
- 5.2 Number of Students Allowed 150 Students (maximum)

## 6. Prerequisites

None

## 7. Co-requisites

None

## 8. Date of Preparation/Latest Revision of the Course Specifications

17 December 2025

## Section 2 Course Goals and Course Description

### 1. Course Goals

By the end of this course the students should be able to define public health problems in terms of the causes, treatments, and prevention methods for common pathological conditions affecting various age groups as well as able to apply knowledge and give basic advice learned in class to improve living conditions.

### 2. Course Description

(In Thai) ศึกษาสาเหตุของโรค อาการและอาการแสดง การวินิจฉัยโรคเบื้องต้น ตลอดจนการสร้างความตระหนักรู้เกี่ยวกับโรคที่พบบ่อยในช่วงวัยต่าง ๆ ของมนุษย์ ได้แก่ ทารกแรกเกิด เด็กก่อนวัยรุ่น วัยรุ่น ผู้ใหญ่ และผู้สูงอายุ

(In English) Causes of diseases; signs and symptoms; initial diagnosis; the awareness of common diseases in various age groups: newborns, pre-teens, teenagers, adults, the elderly



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### Section 3 Course Objectives, Course-level Learning Outcomes and Course Implementation

#### 1. Course Objectives

- 1) Describe a public health problem in terms of time, place, and person in various age groups
- 2) Define the diagnosis of common diseases in various age groups
- 3) Determine the relative importance of causes, treatment, and prevention of diseases in various age groups

#### 2. Course-level Learning Outcomes: CLOs

On completion of the course, the students will be able to:

- 1) CLO1: Explain a broad knowledge of human structure, body function, cellular and molecular mechanisms, pathogen and host response, pathogenesis, and drug action

#### 3. How to organize learning experiences to develop the knowledge or skills stated in number 2, and how to measure the learning outcomes

CLOs	Teaching and learning experience management		Learning outcomes measurements	
	Interactive lecture	In-class activities	Group presentation	In-class participation
CLO1	✓	✓	✓	✓



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## Section 4 Lesson Plan and Evaluation

### 1. Lesson Plan

Teaching Period	Topics/Details	Number of hours		Methods: Teaching Media	Lecturer
		Theory*	Practice**		
1	Newborn-Childhood I - Non communicable diseases	3:00	0:00	Lecture: ppt	PC
2	Newborn-Childhood II - Communicable diseases	3:00	0:00	Lecture: ppt	NK
3	Common problems in pre-teens	3:00	0:00	Lecture: ppt	ANJ
4	Teenage-Adults - Sexually Transmitted Diseases (STD)	3:00	0:00	Lecture: ppt	PK
5	Teenage - Skin and Body Issues	3:00	0:00	Lecture: ppt	NC
6	Adults - Occupational-induced diseases	3:00	0:00	Lecture: ppt	ANJ
7	Adult-Elderly people - Degenerative diseases	3:00	0:00	Lecture: ppt	TP
8	Adults - Travel medicine	3:00	0:00	Lecture: ppt	AS
9	Adult-Elderly people - Common Benign and malignant tumor in Thailand	3:00	0:00	Lecture: ppt	CN
10	Elderly people – Elderly care and complications	3:00	0:00	Lecture: ppt	YN
	Total hours of the entire semester	30	0		

### 2. Plan for Assessment of Expected Course-Level Learning Outcomes (CLOs)

#### 2.1 Measurement and Evaluation of learning achievement

##### A. Formative Assessment

Formative assessment will be conducted continuously throughout the course to monitor students' learning progress and to provide timely feedback for improvement. This includes in-class participation, interactive discussions, question-and-answer sessions, short quizzes, case-based discussions, and group activities related to common diseases in different age groups. Students will also receive feedback from instructors during lectures and group presentations to enhance understanding of disease causes, signs and symptoms, and basic diagnostic concepts. The results of formative assessment will be used to support learning development and to prepare students for summative assessment.



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## B. Summative Assessment

### (1) Tool and weight for measurement and evaluation

Learning Outcomes	Evaluation Method*	Weight (Percentage)
	In-class participation	
CLO1: Explain a broad knowledge of human structure, body function, cellular and molecular mechanisms, pathogen and host response, pathogenesis, and drug action	100	100
<b>รวม</b>	<b>100</b>	<b>100</b>

### (2) Grading Rules

Student performance is evaluated based on achievement of the CLOs through both formative and summative assessments. Grades are assigned according to the following criteria:

- **Outstanding (O):** Students demonstrate excellent understanding and integration of course content, achieve the CLOs at a high level, actively participate in learning activities, and perform outstandingly in assessments, including presentations and assignments.
- **Satisfactory (S):** Students demonstrate adequate understanding of course content and achieve the CLOs at an acceptable level. Participation in learning activities and performance in assessments meet the minimum course requirements.
- **Unsatisfactory (U):** Students demonstrate insufficient understanding of course content and fail to achieve the CLOs. Participation and assessment performance do not meet the minimum course requirements.

### (3) Measurement and Evaluation

Grade	Score
O	80 - 100
S	60 - 79
U	0 - 59



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## 2.2 Re-examination (if the course allows any.)

None

## 3. Students' Appeal

According to the Faculty of Science and Mahidol University rules and regulations

## Section 5 Teaching Resources

### 1. Required Texts

None

### 2. Suggested Materials

None

### 3. Other Resources (if any)

None

## Section 6 Evaluation and Improvement of Course Implementation

### 1. Analysis and Evaluation of Course Implementation

#### A. Data for Analysis

Data obtained from the official course evaluation system of Mahidol University, which reflects the overall evaluation of the course and additional comments provided by students, was collected upon completion of the course.

#### B. Course Effectiveness Evaluation

Course effectiveness is evaluated based on students' achievement of the CLOs through formative and summative assessments, as well as data from the official course evaluation system of Mahidol University. Students' performance, participation, and feedback are analyzed to assess the attainment of course objectives and to identify areas for continuous improvement in teaching, learning, and assessment practices.



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## 2. Revision Process and Improvement Plan for Course Effectiveness

Course revisions are based on the analysis of students' learning outcomes and feedback from the official course evaluation system of Mahidol University. The course coordinator and instructors review and improve course content, teaching methods, and assessment strategies to enhance alignment with the CLOs and support continuous quality improvement.

## 3. The self-assessment report of the course

The course implementation report is presented at the departmental curriculum committee meeting within 30 days after the end of the semester.



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## Appendix

### 1. Relations between the course and the program

**Table 1** Relations between the course and the PLOs

Common Diseases across Life Span	Program-Level Learning Outcomes (PLOs)				
	PLO1	PLO2	PLO3	PLO4	PLO5
SCSi 271	I				

แสดงระดับการจัดการเรียนรู้ของรายวิชา ด้วยอักษร I, R, P หรือ M โดยนำข้อมูลของรายวิชาที่แสดงไว้ในหลักสูตร Curriculum Mapping มาแสดงให้สอดคล้องกัน

**Table 2** Relation between CLOs and PLOs

SCSi 271	Program-Level Learning Outcomes (PLOs)				
	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1: Explain a broad knowledge of human structure, body function, cellular and molecular mechanisms, pathogen and host response, pathogenesis, and drug action	1.1				

ระบุว่าแต่ละ CLO สอดคล้องกับ PLO ในระดับ SubPLO ไດบ้าง โดยใช้หมายเลขของ SubPLO ใน column PLO ที่ตรงกัน เพื่อ แสดงความเชื่อมโยงให้ชัดเจน (Program-level Constructive Alignment)

**Table 3** PLOs and SubPLOs that the course is responsible for

PLOs	SubPLOs
PLO1: Synthesize knowledge and information acquired for medical-related problems to protect and improve the health of individuals	1.1 Explain a broad knowledge of human structure, body function, cellular and molecular mechanism, pathogen and host response, pathogenesis, and drug action

แสดงข้อมูลของ PLOs-SubPLOs เฉพาะที่รายวิชาอ้างอิงถึง เพื่อแสดงการมีส่วนร่วมพัฒนานักศึกษาใน PLOs ที่รายวิชารับผิดชอบ





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## 2. Rubric scoring\*

None

\*หมายเหตุ ถ้ามีการใช้ Rubric scoring เป็นเครื่องมือในการวัดผล ให้แสดงเพิ่มเติมในภาคผนวกข้อที่ ๒.

## 3. Relations between the course and Sustainable Development Goals (SDGs)

- |                                     |       |   |
|-------------------------------------|-------|---|
| <input type="checkbox"/>            | SDG1  | No poverty                              |
| <input type="checkbox"/>            | SDG2  | Zero Hunger                             |
| <input checked="" type="checkbox"/> | SDG3  | Good Health and Well – being            |
| <input type="checkbox"/>            | SDG4  | Quality Education                       |
| <input type="checkbox"/>            | SDG5  | Gender Equality                         |
| <input type="checkbox"/>            | SDG6  | Clean Water and Sanitation              |
| <input type="checkbox"/>            | SDG7  | Affordable and Clean Energy             |
| <input type="checkbox"/>            | SDG8  | Decent Work and Economic Growth         |
| <input type="checkbox"/>            | SDG9  | Industry, Innovation and Infrastructure |
| <input type="checkbox"/>            | SDG10 | Reduced Inequalities                    |
| <input type="checkbox"/>            | SDG11 | Sustainable Cities and Communities      |
| <input type="checkbox"/>            | SDG12 | Responsible Consumption and Production  |
| <input type="checkbox"/>            | SDG13 | Climate Action                          |
| <input type="checkbox"/>            | SDG14 | Life Below Water                        |
| <input type="checkbox"/>            | SDG15 | Life on Land                            |
| <input type="checkbox"/>            | SDG16 | Peace, Justice and Strong Institutions  |
| <input type="checkbox"/>            | SDG17 | Partnerships for the goals              |