

**SCBM 343**  
**Clinical Pathology**

**Semester 2/2018**

**Department of Pathobiology**  
**Faculty of Science**  
**Mahidol University**

## Course Syllabus

(Lecture-Lab-Self study)

### SCBM 343 Clinical Pathology

**2(1-2-3)**

#### Course description

Examination in the laboratory for the diagnosis and prognosis of the diseases, interpretation in hematology, blood bank, immunology, clinical microscopy, clinical chemistry, and the skill in the laboratory practice

**Prerequisite:** SCBM 341 General Pathology

**Type of Course:** Required Course

**Session:** 2<sup>nd</sup> Semester, 3<sup>rd</sup> year student

**Course** class size: None

#### Course objectives

By the end of this course the students are able to understand the relationship between anatomic and clinical pathology and develop the attitude of active learning and be able to keep their standard of practice.

#### Course Outline

Date	Time	Room	Topic	Lecture	Lab	Lecturer
Tue 12 Mar	13.00-14.00	K136	Specimen collection and interpretation	L1		WJ
	14.00-16.00	MDL2	Lab1: How to collect specimen		2	
Mon 18 Mar	13.00-14.00	K136	Urine analysis	L2		WJ
	14.00-16.00	MDL2	Lab 2: Urine analysis		2	
Tue 19 Mar	13.00-14.00	K136	Pathology of red blood cell / Pathology of white blood cell	L3		NK
	14.00-16.00	Pr101	RBC Morphology / WBC Morphology and differentiation		2	
Mon 25 Mar	13.00-14.00	M303	Complete blood count	L4		WJ
	14.00-16.00	MDL3	Blood cell count		2	
Tue 26 Mar	13.00-14.00	K136	Body fluid examination	L5		WJ
	14.00-16.00	MDL3	Body fluid examination		2	
Mon 1 Apr	13.00-14.00	K136	Anemia / Thalassemia	L6		PC
	14.00-16.00	MDL3	Anemia / Thalassemia		2	

Date	Time	Room	Topic	Lecture	Lab	Lecturer
Tue 2 Apr	13.00-14.00	K136	Leukemia	L7		WP
	14.00-16.00	MDL3	Leukemia		2	
Mon 22 Apr	13.00-16.00	MDL2	Examination (L1-L7)			WJ
Tue 23 Apr	13.00-14.00	K136	Glucose tolerance test	L8		NC
	14.00-15.00	K136	Liver function test	L9		WP
Mon 29 Apr	13.00-14.00	K136	Renal function test	L10		SN
	14.00-15.00	K136	Lipid profile	L11		SN
Tue 30 Apr	13.00-17.00	NHealth	Visit Clinical Laboratory: N-Health		4	NC/WP/SN
Tue 7 May	13.00-15.00	K136	Molecular diagnosis	L12-L13		ANJ
*Wed 8 May	13.00-17.00		Lab Presentation (Report)		4	NC/WP/SN
Mon 13 May	13.00-14.00		Immunodiagnosis	L14		WP
	14.00-16.00		RPR test		2	
Tue 14 May	13.00-17.00	Rama	Molecular Techniques		4	Dr.Budsaba*
Tue 21 May	13.00-14.00	M303	Tumor markers, Cytology	L15		PS
	14.00-16.00	MDL1	Tumor markers, Cytology		2	
Mon 27 May	13.00-16.00	MDL2	Examination (L8-L15)			WJ
			<b>Total</b>	<b>15</b>	<b>30</b>	

### Teaching Method

1. Lectures in class 15 hours.
2. Students design and carry out experiments in laboratory session 30 hours.

### Teaching Media

1. Class handouts, Powerpoint presentation
2. Laboratory material and equipment

### Measurement and Evaluation of Students Achievement

1. Pre/Post-test, Discussion, Participation, and Interactive performance 20 %
2. Written Examination in theory and laboratory twice during the course 80 %
3. Student Examination Grade = A, B+, B, C+, C, D+, D, F

### Course Evaluation

1. Students gain knowledge according to the course objectives.
2. Students give written course evaluation at the end of the course.
3. Evaluate students' satisfaction towards teaching and learning of the course using a questionnaire.
4. The lecturer will be notified with the result of the course evaluation from students to further improve the lecturing process.

## **References**

1. McPherson R, Pincus M. Henry's Clinical Diagnosis and Management by Laboratory Methods. 22<sup>nd</sup> edition. Saunders, 1568p.

## **Instructors**

1. ANJ = Assistant Professor Amornrat Naranuntarat Jensen, Ph.D
2. NC = Nisamanee Charoenchon, Ph.D
3. NK = Niwat Kangwanrangsang, Ph.D
4. PC = Assistant Professor Pornthip Chaichompoo, Ph.D
5. PS = Associate Professor Prasit Suwannalert, Ph.D
6. SN = Somphong Narkpinit, M.D.
7. WJ = Associate Professor Wannee Jiraungkoorskul, Ph.D
8. WP = Witchuda Payuhakrit, Ph.D

**Coordinator** Associate Professor Wannee Jiraungkoorskul, Ph.D

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## **Requesting an appeal:**

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