Structure of Cell and Tissue (SCBM217)
Second Semester, Academic Year 2025

Course Syllabus

1. Program of Study Bachelor of Science Program in Biomedical Science
Faculty/Institute/College Faculty of Science

2. Course Code SCBM 217
Course Title Structure of Cell and Tissue

3. Number of Credits 2 (1-2-3)

4. Prerequisite None

5. Type of Course Required course

6. Session Second semester **Academic year** 2025

7. **Time:** Tuesday 1-4pm and Wednesday 8:30am-12pm (Time as shown in the schedule)

8. **Venue:** Salaya campus

9. Course Conditions class size: minimum 10, maximum 80

10. Course Description

Structural and functions of epithelium, connective tissue, muscles, bone, cartilage, integument, circulatory system, digestive system, lymphoid system, respiratory system, urinary system and reproductive system

11. Course Objectives

After successful completion of this course, student is able to

1. Describe histology and basic functions of organs
2. Describe cellular and molecular components that maintain the structure of organs
3. Apply the basic knowledge to explain the clinical correlation of organ malfunctions

12. Course Schedule

Date	Time	Class	Topics	Instructor
Tue 6 Jan 2026	1:00-2:30pm	Lec1	Orientation and Epithelial tissues	SS
Wed 7 Jan 2026	8.30-10.00am	Lec2	Connective tissue, bone and cartilage	KC
Tue 13 Jan 2026	1:00-2:30pm	Lec 3	Muscular tissue & cardiovascular system	SA
	2:30-4:00pm	Lec4	Integumentary system	KW
Wed 14 Jan 2026	8.30-10.00am	Lec5	Respiratory system	KW
Tue 20 Jan 2026	1:00-3:30pm	Lab 1	Epithelial tissue	SS, MSr, LY, MSy
Wed 21 Jan 2026	9:00-11:30am	Lab2	Muscular tissue & cardiovascular system	SA, SS, WS, TK
Tue 3 Feb 2026	1:00-3:30pm	Lab3	Connective tissue, bone and cartilage	KC, WS, SL, YT
Wed 4 Feb 2026	9:00-11:30am	Lab4	Integumentary system	KW, PP, SS, JD
Tue 10 Feb 2026	1:00-3:30pm	Lab5	Respiratory system	KW, KC, PP, SS
Tue 17 Feb 2026	1:30-4:00pm		Lab1-5 reviews & assessment	SA, KW, KC, SS
2 -6 Mar 2026			Mid-term examination (Lec1-5)	
Tue 10 Mar 2026	1:00-2:30pm	Lec6	Digestive system	WS
	2:30-4:00pm	Lec7	Lymphoid system	MSy
Wed 11 Mar 2026	8:30-10:00am	Lec8	Male reproductive system	WW
Tue 17 Mar 2026	1:00-2:30pm	Lec9	Female reproductive system	RV
	2:30-4:00pm	Lec10	Urinary system	
Wed 18 Mar 2026	9:00-11:30am	Lab6	Digestive system	WS, MSr, SS, LY
Tue 24 Mar 2026	1:00-3:30pm	Lab7	Lymphoid system	MSy, SL, TK, PP
Wed 25 Mar 2026	9:00-11:30am	Lab8	Male reproductive system	WW, JD, YT, MSr
Tue 31 Mar 2026	1:00-3:30pm	Lab9	Female reproductive system	RV, SS, MSr, PP
Wed 1 Apr 2026	9:00-11:30am	Lab10	Urinary system	SS, RV, SL, JD
Tue 7 Apr 2026	1:00-3:30pm		Lab6-10 reviews & assessment	MSy, RV, TK, SS
27 Apr – 8 May 2026			Final examination (Lec6-10)	

13. Teaching Methods

1. Lecture
2. Lab

14. Teaching Medias

1. Handout
2. On-line learning materials
3. Histological slides and microscopes

15. Measurement and Evaluation of Student Achievement

1. Written examinations: MCQ
2. Practical examinations: short answer question
3. Performance in Laboratory
4. Examination is graded A, B+, B, C+, C → F according to an expected standard.

	Percent
Lecture Examination I (Lec1-5)	27.5
Lecture Examination II (Lec6-10)	27.5
Lab Examination I	12.5
Lab Examination II	12.5
Lab Performance	10
Class attendance	10
Total	**100**

16. Course Evaluation

1. Student comment forms on the lecturer, teaching contents, and knowledge that they can be used in the future
2. Staff meeting to evaluate the student comments and to give suggestions to improve the course

17. Recommended Textbooks and Atlases:

1. Ross MH & Pawina W (2006). Histology: A Text and Atlas, With correlated cell and molecular biology, 5th edition, Lippincott Williams & Wilkins.
2. Stevens A & Lowe J (2005). Human Histology, third edition, Elsevier, Mosby.
3. Gartner LP & Hiatt JL (2008). Color Textbook of Histology, W.B. Saunders company.
4. Kierszenbaum AL (2007). Histology and Cell Biology: An Introduction to Pathology, 2nd edition., Mosby.

18. Instructors

Prof. Kanokpan Wongprasert (KW)
Assoc.Prof. Kulathida Chaithirayanon (KC)
Assoc.Prof. Somluk Asuvapongpatana (SA)
Assoc.Prof. Wattana Weerachatyanukul (WW)
Assoc.Prof. Yotsawan Tinikul (YT)
Assoc.Prof. Rapeepun Vanichviriyakit (RV)
Assoc.Prof. Worawit Suphamungmee (WS)
Assist.Prof. Somyoth Sridurongrit (SS)
Assist.Prof. Sittipon Intarapat (SI)

Assist. Prof. Thanapong Kruangkum (TK)
Assist.Prof. Morakot Sroraya (MSY)
Assist.Prof. Monsicha Somrit (MSR)
Assist.Prof. Phetcharat Phanthong (PP)
Assist. Prof. Laphatrada Yurasakpong (LY)
Dr. Supanat Lumbikananda (SL)
Dr. Jinchutha Duangdara (JD)

19. Teaching Supporting staff:

Mr.Sukit Meesombat
Ms.Waraporn Muebsri

20. Course Coordinator

Assist. Prof. Somyoth Sridurongrit
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