

Cell & Molecular Biology (SCID500) Credit 3(3-0-6)

COURSE SCHEDULE

June 19-Jul 31, 2026

Faculty of Science, Mahidol University

DATE	TIME		TOPIC	Room	LECTURER
Fri Jun 19	09.00-10.00	OR	Introduction to the Course	L02	Puey
	10.00-12.00	L1	Water and Life	L02	Jirundon
<u>Unit I: Life and Information Flow in Cell</u>					
Mon Jun 22	09.00-11.00	L2,3	Biomolecules of Cells	L02	Jirundon
	11.00-12.00	L4	Structural Biology	L02	Jirundon
Tue Jun 23	09.00-10.30	SL1	Special Lecture 1	L02	Jirundon
	10.30-12.00	SL2	Special Lecture 2	L02	Thanyada (CU)
Wed Jun 24	09.00-11.00	L5,6	Chemical Nature of Genetic Materials &	L02	Laran
			DNA Replication	L02	Laran
Thu Jun 25	09.00-11.00	L7,8	Gene Regulation & Gene Expression	L02	Laran
Fri Jun 26	09.00-11.00	L9,10	Gene Technology	L02	Laran
	11.00-12.00	SL3	Special Lecture 3	L02	Laran
Mon Jun 29	Self-study				
Tue Jun 30	Self-study				
Wed Jul 1	09.00-12.00	EXAM Unit I (L1-10) (50 Points)		Room MDL3	
<u>Unit II: Energy Flow in Biosystem</u>					
Thu Jul 2	Self-study				
Fri Jul 3	09.00-10.00	L14	Chemical Metabolisms	L03	Sittinan
	10.00-11.00	L15	Chemotrophic & Phototrophic Energy Metabolisms	L03	Sittinan
<u>Unit III: Cell Structure and Function</u>					
Mon Jul 6	09.00-11.00	L16,17	Membrane: Structure and Transport Function	L03	Tai
	11.00-12.00	L18	ER, Golgi and lysosomes (I)	L03	Puey
Tue Jul 7	09.00-10.00	L19	ER, Golgi and lysosomes (II)	L03	Puey
	10.00-12.00	L20,21	Cytoskeleton	L03	Puey
Wed Jul 8	09.00-11.00	L11,12	The Catalysts of Life	L03	Ruchanok
	11.00-12.00	L13	Bioenergetics	L03	Ruchanok
Thu Jul 9	09.00-12.00	SL4	Special Lecture 4	L03	Thidathip (SI)
Fri Jul 10	Self-study				
Mon Jul 13	09.00-11.00	L22,23	Mitochondria, chloroplast and peroxisomes	L03	Amornrat
	11.00-12.00	L24	Nucleus	L03	Amornrat
Tue Jul 14	Self-study				
Wed Jul 15	09.00-11.00	SL5	Special Lecture 5	L03	Chayasith (Vistec)
Thu Jul 16	09.00-12.00	EXAM Unit II-III (L11-24) (70 Points)		Room MDL3	

DATE	TIME		TOPIC	Room	LECTURER
<u>Unit IV: Cell Signaling</u>					
Fri Jul 17	09.00-11.00	L25,26	Electrical Signaling in Excitable Cells	L03	Tai
Mon Jul 20	09.00-11.00	L27,28	Cell Surface Receptors	L03	Arthit
			Intracellular Signal Transduction		
	11.00-12.00	SL6	Special Lecture 6	L03	Arthit
Tue Jul 21	10.00-12.00	SL7	Special Lecture 7	L03	Punn (SI)
Wed Jul 22	09.00-11.00	L29,30	Cell Adhesion and Extracellular Substances	L03	Krai
<u>Unit V: Cell Division, Cell Differentiation, Cell Death and Development</u>					
Thu Jul 23	09.00-11.00	L31,32	Cell Division &	L03	Rutaiwan
	11.00-12.00	L33	Cell Cycle & Cell Death	L03	Rutaiwan
Fri Jul 24	09.00-11.00	L34,35	Cell Development	L03	Somyoth
	11.00-12.00	L36	Cell Differentiation	L03	Somyoth
Mon Jul 27	09.00-12.00	SL8	Special Lecture 8 (Group 1)	L03	Kowit (Tsukuba)
	13.00-16.00	SL8	Special Lecture 8 (Group 2)	L03	Kowit (Tsukuba)
Tue Jul 28	Holiday (H.M. King Maha Vajiralongkorn's Birthday)				
Wed Jul 29	Holiday (Asalha Bucha Day)				
Thu Jul 30	Holiday (Buddhist Lent Day)				
Fri Jul 31	09.00-12.00	EXAM Unit IV-V (L25-36) (60 Points)		Room MDL3	