

SCBM 235 Fundamental Microbiology (2/2024)

Course Schedule

Course-coordinator: Vimvara Vacharathit 28 hours 2 credits 30 credits Room: SC1-151

Google Classroom link for students:

<https://classroom.google.com/c/NzQwMjM5MTUzOTM0?cjc=z466bfq>

Date	Time		Topic	Instructor
Mon 6 Jan	14.00 – 14.30		Course Orientation (SCBM 233 & SCBM 235)	TTa, VV
	14.30 – 16.00	L1	Microscopy Techniques	
Mon 13 Jan	14.00 – 15.00	L2	Evolution of Biological Diversity	PA
	15.00 – 16.00	L3	Diversity of Microbes	
Mon 20 Jan	14.00 – 16.00	L4	Bacterial Structure and Function	RK
Mon 27 Jan	14.00 – 15.00	L5	Bacterial Growth and Nutrition	RK
	15.00 – 16.00	L6	Control of Bacterial Growth	
Mon 3 Feb	14.00 – 15.00	L7	Metabolic Diversity of Bacteria	PP
	15.00 – 16.00	L8	Bacterial Genetics (I)	
Mon 10 Feb	14.00 – 15.00	L9	Bacterial Genetics (II)	PP
	15.00 – 16.00	L10	Genetic Engineering and Application	
Mon 17 Feb	10.00 – 11.00	L11	Fungal Structure and Function	AW
	11.00 – 12.00	L12	Diversity of Fungi	
Mon 24 Feb	14.00 – 15.00	L13	Fungal Growth and Application	AW
	15.00 – 16.00	L14	Principle and Practice of Controlling Fungal Growth	

Date	Time		Topic	Instructor
Fri 28 Feb	10.00 – 12.00		Q&A Online (L1 – L14)	TTa, PA, RK, AW, PP, VV
TBA	TBA		Mid-term Examination Week (L1 – L14)	
Mon 10 Mar	14.00 – 15.00	L15	Microbial Eukarya	TTa
	15.00 – 16.00	L16	Microbial Symbioses with Microbes, Plants, and Animals	
Fri 14 Mar	10.00 – 11.00	L17	Environmental Microbiology	AW
	11.00 – 12.00	L18	Food and Industrial Microbiology	
Mon 17 Mar	14.00 – 16.00	L19	Introduction to Virology	RA
Mon 24 Mar	14.00 – 15.00	L20	Emerging and Re-emerging Viruses	TT
	15.00 – 16.00	L21	Control of Viral Infection and Diseases	
Mon 31 Mar	14.00 – 15.00	L22	Host-Pathogen Interaction	VV
	15.00 – 16.00	L23	Microbiota and Health	
Fri 4 Apr	10.00 – 12.00	L24	Methods for Identification of Microbes	RA
Mon 21 Apr	14.00 – 16.00		Q&A (online) (L15 – L24)	TTa, AW, RA, TT, VV
TBA	TBA		Final Examination Week (L15 – L24)	

Instructors

AW	Akaraphol Watcharawipas, Ph.D.	akaraphol.wat@mahidol.ac.th
PA	Assoc. Prof. Pakorn Aiewsakun, Ph.D.	pakorn.aie@mahidol.ac.th
PP	Prof. Prasit Palittapongarnpim, M.D.	prasit.pal@mahidol.ac.th
RA	Radeekorn Akkarawongsapat, Ph.D.	radeekorn.akk@mahidol.ac.th
RK	Ratchara Kalawong, Ph.D.	ratchara.kal@mahidol.ac.th
TT	Thiprumpai Thamamongood	thiprumpai.tha@mahidol.ac.th
TTa	Tana Taechalertpaisarn, Ph.D.	tana.tac@mahidol.ac.th
VV	Asst. Prof. Vimvara Vacharathit, Ph.D.	vimvara.vac@mahidol.ac.th