

SCBE211 Biochemistry for Environmental Biologists

Course time: Thursday 9:30 - 12:30 online/SC1-XXX SC1-153, Salaya campus

Jan	12	Intro, Water, Carbohydrates	Pagkapol
	19	Amino acid, peptides, and proteins	Puey
	26	Protein three-dimensional structure	Puey
Feb	2	Basic concepts of enzymes	Puey
	9	Lipids	Pagkapol
	16	Metabolism of carbohydrates	Thaned
	23	Citric acid cycle and oxidative phosphorylation	Thaned
Mar	2	Metabolism of lipids	Thaned
	7-10	Midterm Exam	
	16	Metabolism of amino acids	Puey
	23	Metabolism of nucleotides	Puey
	30	Oxidative stress and anti-oxidants	Kittisak
Apr	6	Chakri Holiday	
	13	Songkran	
	20	Photosynthesis	Kittisak
	27	Metabolic engineering for environmental biology	Phurt
May	1-12	Final Exam	

Course Coordinators

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Grading

Assignment/attendance (see Lecturers)	35%
Midterm (Lectures 1-7)	35%

Final (Lectures 8-13)

30%

Lecturers

Dr. Pagkapol Pongsawakul (5%)	pagkapol.pon@mahidol.edu
Dr. Puey Ounjai (14%)	puey.oun@mahidol.edu
Dr. Thaned Kangsamaksin (8%)	thaned.kan@mahidol.edu
Dr. Kittisak Yokthongwattana (5%)	kittisak.yok@mahidol.edu
Dr. Phurt Harnvoravongchai (3%)	phurt.han@mahidol.edu

Texts

- 1) Ferrier, R.,D., *Lippincott's Illustrated Reviews Biochemistry*, 6th edition, Lippincott Williams & Wilkins (ASP)
- 2) Lehninger, L. A., Nelson, D. L., and Cox, M. M., *Principles of Biochemistry*, 4th or 5th edition, Worth, New York