SCBE 211 Biochemistry for Environmental Biologists

Course time: 9:30 am - 12:30 pm (AM) and 1:30 pm - 4:30 pm (PM) hybrid/SC1-154 $\,$

Date	Topics/Details	Lecturer
6 June (AM)	Introduction and introduction of biochemistry of life	Alisa
6 June (PM)	Carbohydrates	Pagkapol
7 June (AM)	Lipids	Pagkapol
7 June (PM)	Amino acid, peptides, and proteins	Puey
8 June (AM)	Protein three-dimensional structure	Puey
8 June (PM)	Basic concepts of enzymes	Tavan
9 June (AM)	Metabolism of carbohydrates	Thaned
9 June (PM)	Metabolism of amino acids	Thaned
Midterm Exam (Fri 10 June 9:30 am - 12:30 pm (AM))		
13 June (AM)	Metabolism of lipids	Thaned
13 June (PM)	Metabolism of nucleotides	Tavan
14 June (AM)	Citric acid cycle and oxidative phosphorylation	Tavan
14 June (PM)	Oxidative stress and antioxidants	Kittisak
15 June (AM)	Photosynthesis	Kittisak
15 June (PM)	Metabolic engineering for environmental biology	Phurt
16 June (AM)	Cellular response to pollutants	Choowong
Final Exam (Fri 17 June 9:30 am - 12:30 pm (AM))		

Course Coordinators

Dr. Alisa Damnernsawad

Department of Biology

Faculty of Science

Mahidol University

Telephone number: 02-201-5380

E-mail address: alisa.dam@mahidol.edu

Dr. Pagkapol Pongsawakul

Department of Biology

Faculty of Science

Mahidol University

Telephone number: 02-201-5488

E-mail: pagkapol.pon@mahidol.edu

Lecturers

Dr. Alisa Damnernsawad alisa.dam@mahidol.edu

Dr. Pagkapol Pongsawakul pagkapol.pon@mahidol.edu

Dr. Puey Ounjai puey.oun@mahidol.edu

Dr. Thaned Kangsamaksin thaned.kan@mahidol.edu

Dr. Tavan Janvilisri tavan.jan@mahidol.edu

Dr. Kittisak Yokthongwattana kittisak.yok@mahidol.edu

Dr. Phurt Harnvoravongchai phurt.han@mahidol.edu

Dr. Choowong Auesukaree choowong.aue@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