

SCBE 111 Principles of Biology 1 - 3 credits (3-0-6)

Academic Year 2025, First Semester

For SCBE (International Program)

Monday 9:00 am - 12:00 pm

Classroom: **SC1-153**

Google Classcode: lp33ahwo

Week	Date	Topic	Lecturer
1	3 Aug	Introduction and Biomolecules I	PYP
2	10 Aug	Biomolecules II	PYP
3	17 Aug	Cell and Organelles	PYP
4	24 Aug	Cell Communication and Cell Division	PYP
5	31 Aug?	Plant Tissues	PJS
6	7 Sep?	Animal Tissues	PJS
7	14 Sep?	Bioenergetics: Photosynthesis	PJS
8	21 Sep?	Bioenergetics: Cellular Respiration	PJS
9	28 Sep - 2 Oct	Midterm Examination	Staff
10	5 Oct	MU Graduation (on class)	
11	12 Oct	Genetics and Pattern of Inheritance	TP
12	19 Oct	Molecular Genetics	.TP
13	26 Oct	Genetics and Its Applications	.TP
14	2 Nov	Concept of Evolution: Phylogeny and Systematics	PP
15	9 Nov	Ecology	PP
16	16 Nov	Environmental Biology	PP
17	23 Nov	Sustainable Future	.PP
18	30 Nov - 11 Dec	Final Examination	Staff

Course coordinator:

Dr. Pagkapol Y. Pongsawakul (pagkapol.pon@mahidol.edu)

Department of Biology & Bioresources and Environmental Biology International Program

Faculty of Science, Mahidol University

Instructors:

Lecturer Pagkapol Pongsawakul, Ph.D. (PYP)

Assoc. Prof. Patompong Johns Saengwilai, Ph.D. (PJS)

Assoc. Prof. Theeraporn Puntheeranurak, Ph.D. (TP)

Prof. Prayad Pokethitiyook, Ph.D. (PP)

Evaluation:

35% = Midterm (Weeks 1-8 7x5 = 35%)

35% = Final Exam (Weeks 10-17 7x5 = 35%)

30% = Class activities, formative score or attendance (2% each lecturer x 14 = 28% + 2% PYP)

Required textbook:

SMART BOOK - Mader S. S. and Windelspecht M. Biology. 4th ed., McGraw Hill (2024)