

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

Academic Year 2024, First Semester

For SCBE (International Program)

Monday 9:30 am - 12:30 pm

Classroom: SC1-153

Google Classcode: XXX

Week	Date	Topic	Lecturer
1	5 Aug	Introduction and Biomolecules I	PYP
2	12 Aug	Mother's Day – no class	
3	19 Aug	Biomolecules II	PYP
4	26 Aug	Cell and Organelles	PYP
5	2 Sep	Cell Communication and Cell Division	PYP
6	9 Sep	Plant Tissues and Animal Tissues	PJS
7	16 Sep	Bioenergetics: Photosynthesis	PJS
8	23 Sep	Bioenergetics: Cellular Respiration	PJS
9	30 Sep - 4 Oct	Midterm Examination	Staff
10	7 Oct	Genetics and Pattern of Inheritance	TP
11	14 Oct	King Bhumibol Memorial Day Substitution – no class	
12	21 Oct	Molecular Genetics	.TP
13	28 Oct	Genetics and Its Applications	.TP
14	4 Nov	Concept of Evolution: Phylogeny and Systematics	PP
15	11 Nov	Ecology	PP
16	18 Nov	Environmental Biology	PP
17	25 Nov	Conservation Biology	.PP
18	2-13 Dec	Final Examination	Staff

**Course coordinator:**

Dr. Pagkapol Y. Pongsawakul ([pagkapol.pon@mahidol.edu](mailto:pagkapol.pon@mahidol.edu))

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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 SS. And Windelspecht M. Essentials of Biology. 6th Ed., McGrawHills (2021)