

Mahidol University International College
ICBI 102 Integrated Laboratory in Biological Sciences I 2(0-4-7)
Trimester 2 Academic Year 2020-2021 (Jan-Apr 2021)

Class Time, Room: 0800-1150, R. 1506

Instructor: Mr. Laird B. Allan
 MUIC Biological Sciences

Office: Room 3501/8

Office Hours: M-Th 2-3 **Appointments recommended** due to social distancing policies.

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Final Exam: Practical during Week 12 if possible, otherwise by appointment during Finals Week with the written final.

Course Description: Cell structure and function, tissue, cell division, ecology, movement of molecules, respiration, and photosynthesis.

Required Reading: *Campbell Biology, 12e*

WEEK	TOPIC(S) Certain topics will be combined or taught in different order due to quarantine and social distancing requirements.	Campbell Biology CHAPTERS
1	<i>Lab I: Introduction, Safety, Dissecting Microscopes</i>	Appendix D
2	<i>Lab II: Compound Microscope Operation; Comparative Cell Structure (Prokaryotes, Yeasts, Plants, Animals); Cell Cycle (Mitosis)</i>	Chapter 6
3	<i>Lab III Molecular Movements and membranes (Diffusion, Osmosis)</i>	7, 12
4	<i>Lab IV: Photosynthesis and Metabolism of Elodea (squirrel tail plant)</i>	8
5	<i>Lab V: Meiosis in Allium , Chromosome Models</i>	13-15
6	<i>Lab VI: Genetics Worksheets and Simulations, ABO blood types</i>	16-18
7,8 TBC	Trip <i>Lab VII and VIII: Ecology and the Environment (at mangrove forest, Talay Krungthep and on campus)</i>	
9, 10	<i>IX, X: Animal Anatomy (Heart Dissections) Animal Physiology: Respiration, Heart Rate, Blood Pressure)</i>	42
11	<i>Lab XI: Plant Form and Function</i>	35-38
12 or 13	Practical and Written Final Exam	

Grading

You will be assessed on both knowledge of specific, established facts and concepts of biology, and your performance in all practical activities. Here is the grade weighting scheme for ICBI 102:

Class Participation*	15 %
Reports and continuous assessments	60 %
Final Examination	25 %

*Class Participation requirements: to be counted as present, **you must:**

- 1) wear your uniform properly
- 2) bring your lab coat
- 3) wear shoes that cover your feet
- 4) be attentive
- 5) be punctual
- 6) behave in a studious manner.

You must attend 90% of classes to receive the full 15% c.p. grade.

You may be excused for various reasons, but bring a detailed, written explanation (and a doctor's certificate for the verification if you were ill).

≥ 90%: full 15% earned (0-1 absence/12 classes)

85%: 10% earned (2 absences/12 classes)

80%: 5% earned (3 absences/12 classes)

< 80%: 0.0% earned (>3 absences/12 classes), **final disallowed, automatic F.**

Less than 80% attendance disallows you from the final exam, guaranteeing an F for the course.

Less than 80% attendance is 3 or more absences out of 12 classes.

Field trip attendance counts as 2 days. Field trip is highly recommended but not required.

Three (3) lates count as one absence.

You are late if you arrive after any of the following events:

- your name is called
- a sign-in sheet is passed
- attendance has been visually checked.

Letter Grade Scale and Interpretation

A	≥89.5% Excellent. For <u>really outstanding</u> work. Difficult to attain and not given easily. *
B and B+	80-84.4, 85-89.4% Good, Very good. For work that is very well-done, but not truly outstanding.
C and C+	70-74.4, 75-79.4% Average, Above average. For work that is not particularly good, but not particularly bad.
D and D+	60-64.4, 65-69.4% Very poor, Poor. For work that is weak, but which shows some merit.
F	< 59.5% Failing. For work that is not at internationally-recognized, university level.
W	Withdraw Student left the course without finishing. Does not affect GPA but shows on transcript. Often based on failing midterm performance or excessive excused absences.
I	Incomplete Given by committee approval only , wherein a student has missed exams or much classwork for a valid, documented reason (serious illness, accident, death in the family). Work must be made up within one term or becomes F. Never as a 'second chance'.

* "Mr. Allan, what does **outstanding** mean?"

1. Standing out among others of its kind; prominent.
2. Superior to others of its kind; distinguished.

American Heritage Dictionary of the English Language (2000)

If you feel you are truly outstanding, and are not receiving A's, let's talk about it!

Extra Assignments or Extra Credit: sometimes given as options to the entire class but never to individual students to try to improve their grade. This is unfair to everyone else.
