



Department of Biology
CAS, UP Manila

CLASS ORIENTATION BIOLOGY 110



Kimberly B. Benjamin, Ph.D
Assistant Professor
Department of Biology

Why Study Bio 110?

Holistic Understanding of Life

It combines different biological disciplines allowing for a comprehensive understanding of life at various levels

Interdisciplinary approach

It fosters interdisciplinary approaches, blending genetics, ecology, physiology, and more to tackle problems that cannot be solved by a single discipline

Application to real-world problems

By understanding the interconnectedness of biological systems, we can develop more effective solutions to these global challenges.

Adaptation to emerging fields

It prepares students and researchers to adapt to these changes by providing a broad foundation that can be applied across different domains.

Innovation

Integrated approaches are crucial in developing new therapies, understanding disease mechanisms, and improving agricultural practice

Education & Career Opportunities

It opens up a wide range of career opportunities as it equips students with a versatile skill set that is applicable in academia, industry, government, and non-profit sectors.

Learning Outcomes

- **integrate the fundamental concepts in the core areas of Biology – anatomy, physiology, ecology, genetics, systematics and evolution.**
- **evaluate the concept “unity in diversity” among organisms.**
- **correlate physiological concepts with selected clinical applications**
- **exhibit an appreciation for the interrelationships that exist among organisms and their environment.**
- **demonstrate ethical behavior in handling organisms.**
- **critique published biological literature based on their knowledge of the scientific approach..**

Course Schedule



Part 1: Unit 1 and 2

Cell membrane
and the Nucleus

October

5



Part 2: Unit 3 & 4

Cells, Tissues and
Organ-Systems

November

9



Part 3: Unit 5 & 6

Ecology, Evolution
& Diversity

December

7



Course Requirements

Lecture accounts for 60% while Laboratory accounts for 40% of your Bio 110 Grade

LONG EXAMS

60%

ORAL REPORT

10%

QUIZZES

15%

CRITIQUE PAPER

10%

GROUP ASSIGNMENTS

5%

Course Policies



Summative Assessments

- Missing a long exam will require the student to take the final exam to compensate for the missed assessment provided he/she presents a formal document not later than one week from the student's return from absence.
- There is no make-up test for quizzes



Scholastic Integrity

- Any form of cheating or plagiarism will result in an automatic grade of 5.0 for the course
- The students must observe fair use of copyrighted materials, including the recorded classroom/online sessions.



Communication

- Appoint two class representatives who will be responsible for communicating any class concerns to me via email.



Summative Assessments

- A student must obtain a grade of at least 60% in both lecture and lab to pass the course.
- A comprehensive final exam covering lessons from both the lecture and laboratory course components will be given at the end of the semester.



Attitude & Behaviour

- Students are encouraged to foster a respectful and professional learning environment by actively participating in class discussions, staying engaged, and supporting their peers. To maintain focus, please refrain from using cellphones during class.



Adaptability

- If you find the lesson challenging or difficult to understand, please don't hesitate to seek help. Reach out early so we can work together to ensure your success.

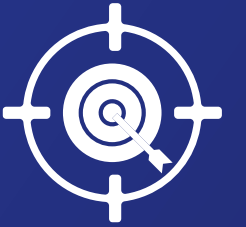
REFERENCES



- Mader, S.S. and M. Windelspecht, 2020, Essentials of Biology Sixth ed. McGraw-Hill Companies, Inc. USA.
- Mader, S.S. and M. Windelspecht, 2018, Human Biology Fifteenth ed. McGraw-Hill Education. USA
- Raven, P.H., Johnson, G.B., Mason, K.A., Losos, J.B. and S.R. Singer, 2020, Biology Twelfth ed. McGraw-Hill Companies, Inc. USA.
- Starr, C., Evers, C.A. and L. Starr, 2021, Biology: Today and Tomorrow with Physiology, Sixth ed. Brooks/Cole. USA.
- Urey, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V. and J.B. Reece, 2021, Campbell Biology, Twelfth ed. Pearson Education, Inc. USA. (Primary textbook)

CONSULTATION

UVLE



Subject Name: Bio 110 Lecture AY 24-25
Enrolment Key: *Bio 110*



CONSULTATION HOURS

MThTF: 1:00–2:30
DB Office

Wednesday
10:00–2:00 PM
Via Zoom (Notify me 2 days before)
Meeting ID: 966 6505 6212
Passcode: Bio110FS24