LIFS4360 Aquaculture Biotechnology
Course Outline - Spring 2020

1. Instructor(s)

Name: Prof. Joseph T.Y. WONG
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2. Teaching Assistant(s)

Name:
Contact Details:

3. Meeting Time and Venue

Lectures:
Date/Time: Tuesday (9:00am – 10:20am) and
Thursday (9:00am – 10:20am)
Venue: Room 2304 (Lift 17/18)

4. Course Description

Credit Points: 3
Pre-requisite: LIFS 2040 or LIFS 2060
Exclusion: NIL
Brief Information/synopsis:
Overview of aquaculture in relation to food production and biotechnology. Examples of aquacultured species and aquaculture biotechnology enterprises. Aquaculture, biology and practices: larval rearing biotechnology, aquaculture nutrition, biotechnology of reproductive control in aquacultured species, applications of genetics and genetic manipulations in aquaculture. Problems and Perspectives. *Prerequisite(s) :* LIFS 2040 or LIFS 2060.

5. Intended Learning Outcomes

Upon successful completion of this course, students should be able to:	ILOs
1	Introduction to aquaculture biotechnology.
2	Identify the roles of aquaculture biotechnology.
3	Search for scientific information and make critical presentations.
4	Application of scientific knowledge to practice.

6. Assessment Scheme

Assessment	Assessing Course ILOs
(Percentage + assessment tasks)	*(Respective course ILOs)*
Project	1 - 4
Final Examination	1 - 3

7. Student Learning Resources – internet and library books

8. Teaching and Learning Activities -

a. Lectures: aims to introduce the basics of aquaculture
b. Research Project: focus on a specific aspect of aquaculture biotechnology

9. Course Schedule (temporary)

- Introduction to Aquaculture : Global Perspectives
  Aquacultural Systems
- Reproductive Control in aquaculture
- Aquaculture of Fish and Production Biology
- Hatchery and Larval Feeding Biotechnology,
- Aquaculture of Crustaceans and Production Biology
- Applications of Genetics; Genetic Manipulations in Aquaculture
- Aquaculture nutrition; Problems and Perspectives