

# BMS4206: FINAL YEAR PROJECT IN BIOMEDICAL RESEARCH

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## Effective Term

Semester A 2023/24

## Part I Course Overview

### Course Title

Final Year Project in Biomedical Research

### Subject Code

BMS - Biomedical Sciences

### Course Number

4206

### Academic Unit

Biomedical Sciences (BMS)

### College/School

Jockey Club College of Veterinary Medicine and Life Sciences (VM)

### Course Duration

Two Semesters

### Credit Units

0-8

### Level

B1, B2, B3, B4 - Bachelor's Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Nil

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

Nil

## Part II Course Details

### Abstract

This course aims to provide student an opportunity to work on a research project in a state-of-art research laboratory independently based on their knowledge acquired from lectures in different areas. In this course, students will do literature survey to find updated information about their research topic, get involved heavily in experimental design and execution. They should discuss the project topics with their assigned supervisor and review the progress on a regular basis. Students will give an oral presentation and submit a dissertation towards the end of the course as part of the course requirement.

### Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Design and carry out an independent laboratory based project		x	x	x
2	Criticizes the scientific literature and analyse the experimental data			x	
3	Demonstrate the ability to make scientific observations and gather information		x	x	x
4	Evaluate the collected data and present it in both written and oral form			x	x
5	Hypothesize and stimulate creative thinking as well as thinking from different perspectives		x	x	x

#### A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

#### A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

#### A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

### Teaching and Learning Activities (TLAs)

TLAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Literature study	Literature review involves critical reading and understanding on scientific articles.	2, 3, 5
2	Seminars/ Sharing sessions	Practice and refine one's own skills in discussions and sharing of ideas with others with confidence	1, 3, 5
3	Student and Supervisor discussion	Regular discussion between student and supervisor on reviewing the progress of the research project, and give feedbacks to the students	1, 2, 3, 4, 5

4	Experimental/Bench work	Plan and perform experiments independently. Keep experimental record in a log book and submit to supervisor for assessment.	1, 3, 4, 5	
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**Assessment Tasks / Activities (ATs)**

	ATs	CILO No.	Weighting (%)	Remarks
1	Overall Bench performance	1, 3, 4, 5	20	
2	Oral presentation	2, 4	30	
3	Dissertation	1, 2, 3, 4, 5	50	

**Continuous Assessment (%)**

100

**Examination (%)**

0

**Assessment Rubrics (AR)****Assessment Task**

1. Overall Bench Performance

**Criterion**

Demonstrate the ability to apply what has been taught in lectures/tutorials into practice

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal levels

**Assessment Task**

2. Oral presentation and dissertation

**Criterion**

Ability to explain the report results in detail and the quality of your oral presentation and discussion

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal levels

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## Part III Other Information

### Keyword Syllabus

- Research topic
- Table of Contents
- Cover page & Titles
- List of Figures
- Abbreviations
- Appendices
- References
- Work attachment

### Reading List

#### Compulsory Readings

Title	
1	The CityU library has a research guide arranged by subject department: <a href="http://libguides.library.cityu.edu.hk/">http://libguides.library.cityu.edu.hk/</a>
2	Pubmed <a href="http://www.ncbi.nlm.nih.gov/pubmed">http://www.ncbi.nlm.nih.gov/pubmed</a>
3	Google Scholar: <a href="http://scholar.google.com">http://scholar.google.com</a>

#### Additional Readings

Title	
1	Nil