

# BMS1701C: BIOMEDICAL RESEARCH – ROTATION PROJECT I (THEME C)

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## Effective Term

Semester A 2022/23

## Part I Course Overview

### Course Title

Biomedical Research – Rotation Project I (Theme C)

### Subject Code

BMS - Biomedical Sciences

### Course Number

1701C

### Academic Unit

Biomedical Sciences (BMS)

### College/School

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

### Course Duration

One Semester

### Credit Units

1

### 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

### Additional Information

\*Project theme to be advised by each semester

## Part II Course Details

### Abstract

The course BMS1701C is the third research rotation in a series of 3 courses (BMS1701A / BMS1701B / BMS1701C) for the 1st year undergraduate students. This course aims to provide student an opportunity to gain additional research experience in a state of the art research laboratory at the University. In this course, students will do literature review and participate in research under a faculty member in the biomedical sciences department. They should discuss the research topic(s) with their assigned supervisor on a regular basis. At the end of the course, they will give an oral presentation and submit a report summarizing the learned research techniques and their research findings as part of the course requirement. After finishing these three rotation courses BMS1701A/1701B/1701C, students are expected to gain knowledge and lab skills in different research areas and be well prepared for the second series of rotation courses in year 2.

### Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if DEC-A1 DEC-A2 DEC-A3 app.)			
1	Demonstrate the ability to master scientific research techniques, make scientific observations, ask specific questions and gather information		x	x	x
2	Criticizes the scientific literature and analyse the experimental data			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 real-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.	1, 2
2	Seminars/ Sharing sessions	Practice and refine one' s own skills in discussions and sharing of ideas with others with confidence	1
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

**Assessment Tasks / Activities (ATs)**

	<b>ATs</b>	<b>CILO No.</b>	<b>Weighting (%)</b>	<b>Remarks (e.g. Parameter for GenAI use)</b>
1	Oral Presentation	1, 2	50	
2	Summary Report	1, 2	50	

**Continuous Assessment (%)**

100

**Examination (%)**

0

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

1. Oral Presentation

**Criterion**

Ability to explain the research conducted in detail and the quality of your oral presentation

**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. Summary Report

**Criterion**

Ability to explain the learned techniques and the research conducted in detail and the quality of your written report

**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 rotation
- Literature review
- Biomedical sciences
- Cancer research
- Neuroscience
- Regeneration medicine
- Nano medicine
- Microbiology
- Genetics, epigenetics and genomics

### 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