

CBM4000: RESEARCH SEMINAR

Effective Term

Semester A 2026/27

Part I Course Overview

Course Title

Research Seminar

Subject Code

CBM - College of Biomedicine (BD)

Course Number

4000

Academic Unit

College of Biomedicine (BD)

College/School

College of Biomedicine (BD)

Course Duration

Two Semesters

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

NIL

Part II Course Details

Abstract

This course aims to expose students to new research in the fields of biomedicine / biomedical engineering. Students will attend research seminars for at least two semesters. Throughout the course, students will learn to think critically and creatively, apply and integrate knowledge acquired from other courses, deepen their understanding of biomedicine and engineering concepts, pose questions, and participate in scientific discourse.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Discover new knowledge arising from research activities (academia and industry)	40	x	x	
2	Critically analyze and integrate information and data	40	x	x	
3	Develop a mindset to realize the importance of life-long learning in the profession of biomedical engineering	20	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.

Learning and Teaching Activities (LTAs)

LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	There will be no formal lectures. Students will attend research seminars for at least two semesters.	1, 2, 3	Variable

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks ("- for nil entry)	Allow Use of GenAI?
1	Research seminar attendance	1, 2, 3	60	-	No
2	Reflective report	1, 2, 3	40	-	Yes

Continuous Assessment (%)

100

Minimum Continuous Assessment Passing Requirement (%)

40

Additional Information for ATs

Students will provide documentation of their research seminar attendance.

To pass a course, a student must do ALL of the following:

- 1) obtain at least 40% of the total marks allocated towards continuous assessment (combination of assignments, pop quizzes, term paper, lab reports and/ or quiz, if applicable);
- 2) obtain at least 40% of the total marks allocated towards final examination (if applicable); and
- 3) meet the criteria listed in the section on Assessment Rubrics.

Assessment Rubrics (AR)

Assessment Task

Research seminar attendance

Criterion

Ability to think critically and creatively, apply and integrate knowledge acquired from other courses, deepen their understanding of biomedicine and engineering concepts, pose questions, and participate in scientific discourse.

Pass (P)

Students attend at least 4 research seminars per semester for 2 semesters (i.e., 8 in total).

Failure (F)

Students attend less than 4 research seminars during the semester.

Assessment Task

Reflective report

Criterion

Ability to demonstrate clarity of thought, depth of analysis, coherence, relevance to seminar content, personal insight, concise expression, and adherence to formatting guidelines.

Pass (P)

Students submit a reflective report for each seminar.

Failure (F)

Students are unable to submit a reflective report for each seminar.

Part III Other Information

Keyword Syllabus

Current topics in biomedicine and/or biomedical engineering; independent study

Reading List