# BMS5100: RESEARCH PROJECT STUDY IN BIOMEDICAL SCIENCES, LIFE SCIENCES AND RELEVANT DISCIPLINES

**Effective Term**
Semester A 2025/26

## Part I Course Overview

**Course Title**
Research Project Study in Biomedical Sciences, Life Sciences and Relevant Disciplines

**Subject Code**
BMS - Biomedical Sciences
**Course Number**
5100

**Academic Unit**
Biomedical Sciences (BMS)

**College/School**
College of Biomedicine (BD)

**Course Duration**
Non-standard Duration

**Other Course Duration**
One Semester/Term (Semester A/B or Summer Term) or
Two Semesters/Term (Semester A & B OR Semester B & Summer Term)

**Credit Units**
0-9

**Level**
P5, P6 - Postgraduate Degree

**Medium of Instruction**
English

**Medium of Assessment**
English

**Prerequisites**
Nil

**Precursors**
Nil

**Equivalent Courses**
Nil

**Exclusive Courses**

BMS5003/BMS5003A/BMS5004/BMS5005/BMS5006/BMS5101

# Part II Course Details

**Abstract**

The course is designed for the students to carry out an independent project based on their knowledge and research ability in the field of health science and management. The dissertation study under the supervision of a mentor will provide the students with the opportunity to apply the knowledge of theoretical subjects to build a practical project. Topic of projects includes conventional biomedical research or clinical sciences as well as regulatory, administrative, or educational research in the health science-related fields. Through conducting the project study, students are expected to develop critical thinking, analytical ability, and evaluative skills in a chosen area of specialization as well as they will learn how to write and defend their dissertation. Two options are provided to each student: individuals will do independent research project under PI's supervision in BMS. BMS5100 equips a hand-on study for those who are interested in biomedical research and pursue PhD study in future.

**Course Intended Learning Outcomes (CILOs)**

| | CILOs | Weighting (if app.) | DEC-A1 | DEC-A2 | DEC-A3 |
|---|---|---|---|---|---|
| 1 | Pursue an in-depth study of a professional issue associated with a chosen area of specialization. | | x | x | x |
| 2 | Develop critical thinking, analytical ability, and evaluative skills through the conduct of the project. | | | x | |
| 3 | Develop the ability to write and present in a scientific context. | | | x | x |
| 4 | Apply interdisciplinary knowledge to develop and enhance problem solving-skills in a chosen field of specialization. | | 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 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 | Learning Contract | A thesis will be planned in the beginning of the study under the guidance of a mentor. | 1 | |
| 2 | Research Presentation | Regular presentation in the progress of the project. | 3, 4 | |

| | | | | |
|---|---|---|---|---|
| 3 | Meeting with a mentor | Regular supervisory meeting to discuss about the challenge of research project and dissertation writing. | 1, 2, 3, 4 | |

**Additional Information for LTAs**

Note:
- BMS5003/BMS5003A/BMS5004/BMS5005/BMS5006/BMS5101 are exclusive courses. The courses are designated for students in different cohorts of study. These courses cannot be repeated.
- The normal duration of the course is One Semester/Term (Semester A/B or Summer Term) or Two Semesters/Term (Semester A & B OR Semester B & Summer Term).
- Maximum duration of the course can normally be up to 3 semesters/terms upon approval from course leader/coordinator, in consultation with the supervisor. Further extension of semesters/terms shall need written endorsement from project supervisor, course leader and Programme Leader.

**Assessment Tasks / Activities (ATs)**

| | ATs | CILO No. | Weighting (%) | Remarks ("-" for nil entry) | Allow Use of GenAI? |
|---|---|---|---|---|---|
| 1 | Assessment of individual contribution to the project | 1, 2, 3 | 10 | - | No |
| 2 | Oral presentation | 3, 4 | 30 | - | No |
| 3 | Final project report | 1, 2, 3, 4 | 60 | - | No |

**Continuous Assessment (%)**

100

**Minimum Continuous Assessment Passing Requirement (%)**

40

**Assessment Rubrics (AR)**

**Assessment Task**

Assessment of individual contribution to the project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Design & planning of the project, Use of resources & information, Data collection & Record keeping, Active participation

**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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**Assessment Task**
Oral presentation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**
Arrangement & delivery of presentation, and handling of questions.

**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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**Assessment Task**
Final project report

**Criterion**
Impact and significance, Knowledge & Approach, Content and Evidence, Data Analysis & Results Interpretation, Discussion & Conclusion

**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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**Assessment Task**
Assessment of individual contribution to the project (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**
Design & planning of the project, Use of resources & information, Data collection & Record keeping, Active participation

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

**Good**
(B+, B) Significant

**Marginal**
(B-, C+, C) Moderate

**Failure**
(F) Not even reaching marginal levels

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**Assessment Task**
Oral presentation (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**
Arrangement & delivery of presentation, and handling of questions.

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

**Good**
(B+, B) Significant

**Marginal**
(B-, C+, C) Moderate

**Failure**
(F) Not even reaching marginal levels

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**Assessment Task**
Final project report (for students admitted from Semester A 2022/23 to Summer Term 2024)

**Criterion**
Impact and significance, Knowledge & Approach, Content and Evidence, Data Analysis & Results Interpretation, Discussion & Conclusion

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

**Good**
(B+, B) Significant

**Marginal**
(B-, C+, C) Moderate

**Failure**
(F) Not even reaching marginal levels

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# Part III Other Information

**Keyword Syllabus**

Health,
Project Study,
Biomedical Science,
Biotechnology- & Pharmaceutical- Industry,
Healthcare Administration and Public Health

**Reading List**

**Compulsory Readings**

| | Title |
|---|---|
| 1 | Journal articles and books specific to a research topic, refer to PubMed, Scopus, and other research data base. |
| 2 | CityU library facilities (online as well as manual) |

**Additional Readings**

| | Title |
|---|---|
| 1 | Nil |