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Academic Program: Master of Science in Genomics and Bioinformatics
Academic Year: 2022
Language: English

[Learning Outcomes](#)

Study Scheme

Postgraduate Student Handbook 2022-23 (SBS-II)

FACULTY OF MEDICINE

Biomedical Sciences

Study Scheme

M.Sc. Programme in Genomics and Bioinformatics (Full-time and Part-time)

1. Coursework Requirement

A) Full-time mode

Students are required to complete a minimum of 24 units of courses for graduation.

Required courses:

1st term: GNB5010, 5020, 5030, 5040 **12 units**

2nd term: GNB5050, 5060, 5070, 6010 **12 units**

Total: 24 units

B) Part-time mode

Students are required to complete a minimum of 24 units of courses for graduation.

Required courses:

First Year of Attendance: **12 units**

1st term: GNB5010, 5020

2nd term: GNB5030, 5040

Second Year of Attendance: **12 units**

1st term: GNB5050, 5060

2nd term: GNB5070, 6010

Total: 24 units

2. Other Requirements

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Section 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: <http://www.gs.cuhk.edu.hk>.
- (b) CUHK graduates of the Bachelor of Science in Biomedical Sciences Programme in the School of Biomedical Sciences who pursue study of the Master of Science in Genomics and Bioinformatics Programme will have the course GNB5020 exempted (3 units). Graduates will be required to complete a minimum of 21 units of courses for graduation. The exemption is valid for up to 3 years after graduation from the Bachelor of Science in Biomedical Sciences Programme.

3. Remark(s):

Students will be mainly assessed by assignments, examination and course paper. For the research project, assessment will be based on research performance, oral presentation, and written report.

Course List

<u>Code</u>	<u>Course Title</u>	<u>Unit</u>
GNBF5010	Introduction to Programming	3
GNBF5020	Introduction to Molecular Biology and Genetics	3
GNBF5030	Bio-computing	3
GNBF5040	Genomics: Basic Concepts and Applications	3
GNBF5050	Theories and Algorithms in Bioinformatics	3
GNBF5060	Systems Biology	3
GNBF5070	Genome Informatics	3
GNBF6010	Research Project	3

Study Scheme

Learning Outcomes

MSc in Genomics and Bioinformatics

- To enrich students who graduated in the Faculties of Medicine, Science, and Engineering with knowledge of genomics and bioinformatics;
- To train students to critically appraise scientific work in related fields;
- To provide students with experience in carrying out genomics and bioinformatics research;
- To enable students to apply the knowledge learned to their work which is related to biological or biomedical research.

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