

Handbook for “3+2” Programme with QUB (BIO19 Curriculum)

1. Programme Overview

The Department of Biomedical Sciences (DBS) collaborates with Queen's University Belfast to launch this five-year joint programme that trains personnel who can pursue a career in food science and nutrition with biomedical background. Student who completes this programme can receive one bachelor's degree from UM and one bachelor's degree from QUB.

2. General Eligibility

The applicant should be an UM student who has enrolled in BSc in Biomedical Sciences between the 2019/2020 academic year to the 2021/2022 academic year.

3. English Proficiency

The applicant must have achieved an IELTS for UKVI (Academic) test score of 6.5 or above, with a minimum of 5.5 in all four elements of the test (or equivalent as defined by QUB), taken within the last two years. If an applicant has an IELTS score of 5.5 or equivalent, the applicant is expected to undertake an English Language programme at QUB prior to commencing the study at QUB.

4. Academic Performance for Admission

By the time of admission to the programme, the applicant should have outstanding academic standing and **MUST**:

- (1) have achieved a minimum cumulative GPA of 2.7 and
- (2) have successfully completed the courses listed below at UM with a grade of B- or better in all courses.

UM Course	Credit
1st Academic Year	
HSCI1000 General Chemistry	3
HSCI1001 General Chemistry Lab	2
HSCI1002 Introduction to Biological Sciences	3
HSCI1003 General and Clinical Biochemistry	3
HSCI1004 Biochemistry Lab	1.5
HSCI2004 Genetics and Epigenetics	3
HSCI3003 Biostatistics and Experimental Design	3
Languages and Skills Course (English Language)^a / Free Elective	6
Community and Peer Education	3
General Education Course: (GELH compulsory) GELH1000 Chinese Language and Culture	3

General Education Course: (GEST compulsory) GEST1003 Quantitative Reasoning for Health Sciences	3
2 nd Academic Year	
HSCI2000 Cell and Molecular Biology	3
HSCI2001 Cell and Molecular Biology Lab	1.5
HSCI2002 General and Clinical Microbiology	3
HSCI2003 Microbiology Lab	1.5
HSCI2005 Biology of Development and Aging	3
HSCI2006 Physiology and Pathophysiology	3
HSCI3004 Genomics and Bioinformatics	3
HSCI3005 Genetics, Genomics and Bioinformatics Lab	1.5
Languages and Skills Course (English Language)^a / Free Elective	3
Languages and Skills Course (Chinese or Portuguese Language)^b / Free Elective	3
General Education Course: (GEGA compulsory) GEGA1000 Macao and Chinese Civilization	3
General Education Course: (GEGA elective) GEGA1007 Nutrition in Health and Disease	3
General Education Course: (GELH elective) Any GE courses in Languages and Humanities	3
3 rd Academic Year	
HSCI3000 Neuroscience and Neurodegenerative Diseases	3
HSCI3001 Endocrinology and Metabolic Diseases	3
HSCI3002 Immunology and Infectious Diseases	3
HSCI4001 Cancer Biology and Therapy	3
HSCI4002 Stem Cell Biology and Regenerative Medicine	3
HSCI4006 Public Health	3
HSCI4007 Translational Medicine	3
Required Elective: HSCI4003 Pharmacology and Chemical Biology	3
Required Elective: HSCI4009 Toxicology	3
Languages and Skills Course: CISC1000 Information Technology Fundamentals and Practices	3
General Education Course: (GESB compulsory) GESB1000 Ethics, Values, Law and Society	3

^a If the applicant has tested out one to three Languages and Skills Courses (English Language), the applicant is required to take free elective course(s) at UM to make up the required credits.

^b If the applicant has tested out the Languages and Skills Course (Chinese or Portuguese Language), the applicant is required to take one free elective course at UM to make up the required credits.

5. Courses taken at QUB

QUB Course	Credit	Course Exemption at UM
4 th Academic Year		
BIO2301 Food Commodities, Processing and Hygiene	40	GEST1018
BIO2302 Food Choice, Diet and Health	40	GESB2001
BIO2101 Principles of Food Quality	20	a
BIO2201 Instrumental Food Analysis	20	a
5 th Academic Year		
BIO3302 Project (FQN)	40	HSCI4000, HSCI4005
BIO3101 Business Innovation and Entrepreneurship	20	
BIO3301 Food Supply Chain Safety and Security	40	
Required Elective: BIO3201 Food Product Development / SCM3001 Clinical Nutrition	20	

^a The successfully completed course can be used for exempting free elective course(s) at UM, and the number of free elective course(s) that can be exempt depends on the credit number and the number of contact hour of the course taken at QUB.

6. Graduation Requirement

The enrolled student shall have successfully completed the following requirements in order to receive the BSc in Biomedical Sciences with specialization in Medicinal Science from UM and BSc in Food Science and Nutrition from QUB.

Year of Study	BSc in Biomedical Sciences with specialization in Medicinal Science at UM	BSc in Food Science and Nutrition at QUB
1 st	104	120 *Transferred from UM
2 nd		
3 rd		
4 th	18	240
5 th	*Through course exemption	
Total Credit	122	360

7. Academic Advisor

If an applicant finds questions, please contact:

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8. Remark

It is important to note that the completion of this joint programme does not fulfill the professional qualification for a dietician in Macao, and the requirement for this profession is governed by Regulamento Administrativo n.º 23/2021.

The curricular arrangement may be subject to change, and student who is interested in the joint programme is encouraged to communicate with the academic advisor for updates.