

Handbook for “2+3” Programme with SCU

(for Hong Kong-Macao Student in PHA22 Curriculum)

1. Programme Overview

The University of Macau (UM) collaborates with Sichuan University (SCU) to launch this five-year joint programme that trains personnel in clinical pharmacy with pharmaceutical background. Student is required to complete two years in the BSc in Pharmaceutical Sciences and Technology offered by the Department of Pharmaceutical Sciences (DPS), Faculty of Health Sciences (FHS), UM, followed by three years in Bachelor of Natural Science in Clinical Pharmacy at the West China School of Pharmacy, SCU. Student who completes this programme can receive the BSc degree from UM and the Bachelor of Natural Science degree from SCU.

2. General Eligibility

The applicant should be a UM student who enrolled in BSc in Pharmaceutical Sciences and Technology from the 2022/2023 to the 2025/2026 academic year. The applicant should be a permanent resident of Macao or Hong Kong who possesses or is eligible to possess Mainland Travel Permit for Hong Kong and Macao Residents [《港澳居民來往內地通行證》(回鄉證)].

3. Academic Performance for Admission

The student shall meet the following criteria before he/she can move to SCU for the 2nd phase of study:

- (1) Complete the courses in the study plan as listed in Table 1 below;
- (2) Have passed a list of courses as specified in the attached study plan with good grades;
- (3) Have tested out of 1 Chinese language course in Languages and Skills;
- (4) The qualified student will be subjected to evaluation by SCU and the acceptance decision is by SCU.

Table 1: Study plan for the 1st phase (two years) at UM

UM Course	Credit
1 st Academic Year	
APAC1004 General Physics	4
APAC1005 Physics Lab	1
HSCI1000 General Chemistry	3
HSCI1001 General Chemistry Lab	2

UM Course	Credit
HSCI1002 Introduction to Biological Sciences	3
HSCI1003 General and Clinical Biochemistry	3
HSCI1004 Biochemistry Lab	1.5
HSCI1005 Organic Chemistry	4
HSCI1006 Organic Chemistry Lab	2
MATH1007 Introduction to Probability	1
Community and Peer Education	
CPED1000 Residential College Experiential Learning	1
Community and Peer Education	
CPED1001 Physical Education I	0.5
Community and Peer Education	
CPED1002 Physical Education II	0.5
Languages and Skills:	
CISC1000 Information Technology Fundamentals and Practices	3
Languages and Skills¹ / Free Elective	
EELCXXXX English Language courses / FE	6
General Education Course: (GEGA compulsory)	
GEGA1000 Macao and Chinese Civilization	3
General Education Course: (GESB compulsory)	
GESB1000 Ethics, Values, Law and Society / GESB1017 Law and Society	3
2 nd Academic Year	
APAC3005 Physical Chemistry	3
CISC1001 Programming Science	3
CISC1004 Introduction to Computer Science	3
HSCI2002 General and Clinical Microbiology	3
HSCI2003 Microbiology Lab	1.5
HSCI2006 Physiology and Pathophysiology	3
HSCI2008 Human Anatomy	3
HSCI2011 Analytical Chemistry	3
HSCI2012 Analytical Chemistry Lab	2
HSCI3003 Biostatistics and Experimental Design	3
Community and Peer Education	
CPED2001 Residential College Community Team Project	1
Languages and Skills Course¹ / Free Elective	
EELCXXXX English Language courses / FE	3
General Education Course: (GEGA elective)	
GEGA1007 Nutrition in Health and Disease	3
General Education Course: (GELH compulsory)	
GELH1000 Chinese Language and Culture	3

UM Course	Credit
General Education Course: (GELH elective) GELHXXX Any General Education Course under the area of Literature and Humanities	3
General Education Course: (GESB elective) GESB2002 Business, Society and Entrepreneurship	3
General Education Course: (GEST elective) GEST2002 Psychology and Health	3

¹ If the applicant has tested out the Languages and Skills Course(s), the applicant can use the course(s) of SCU to apply transferring credits to make up the required credits.

4. Courses taken at SCU

Once admitted to SCU, the student shall complete the study plan for the 2nd phase of the study, with completion of the courses listed in Table 2 below.

Table 2: Study plan for the 2nd phase (three years) at SCU

SCU Course	Credit	Course Exemption at UM
3 rd -5 th Academic Year		
通識教育 - 公共基礎課 (必修)	23	--
通識教育 - 公共基礎課 - 外語 (必修)	8	--
通識教育 - 公共基礎課 - 勞動教育 (必修)	1	--
通識教育 - 公共基礎課 - 美育 (必修)	2	--
通識教育 - 公共基礎課 (選修)	9	--
201089030 醫科數學 (III)	3	GEST1003
203107020 儀器分析 (II)	2	--
501103025 醫學免疫學 (II)	2.5	--
502029030 兒科學 (III)	3	EXCHXXXX ¹
502045030 婦產科學 (III)	3	EXCHXXXX ¹
502213040 診斷學 (II)	4	--
502469040 臨床藥物治療學 (I) -2	4	EXCHXXXX ¹
502473010 藥學服務 (II)	1	--
502524010 醫患溝通訓練課	1	--
502641020 藥物警戒	2	--
502741080 系統整合臨床課程 (III)	8	--
502981010 臨床藥學服務 (II)	1	--
504012040 病理學 (I)	4	EXCHXXXX ¹
505011020 臨床藥理學	2	--
505083020 臨床藥學服務 (I)	1	--

SCU Course	Credit	Course Exemption at UM
505087010 藥學服務 (I)	1	--
505091020 臨床藥物治療學 (I) -1	2	--
505135015 藥動學實驗	1.5	--
505182030 藥理學 (II)	3	HSCI2009
505203010 藥學導論	1	--
505213020 臨床藥物動力學	2	--
505218020 藥理學實驗 (II)	2	HSCI2010
505216030 藥物化學 (II)	3	HSCI2013
505207020 生物藥劑及藥動學	2	HSCI3008
505097010 生物藥劑學實驗	1	
502471020 循證藥學	2	HSCI3009
505096010 中醫中藥學概要	1	
505217030 藥劑學 (II)	3	HSCI3010
505219020 藥劑學實驗 (II)	2	HSCI3011
505198020 藥物分析 (II)	2	HSCI3012 HSCI4009
505074020 體內藥物分析與毒物分析	2	
505086020 藥物毒理學	2	
505200020 藥物分析實驗 (II)	2	HSCI3013
505212020 藥事管理學 (II)	2	HSCI3014
502470020 醫院藥事管理	2	
502999080 臨床藥學實習 - 1	8	HSCI4000
502998080 臨床藥學實習 - 2	8	HSCI4005
505024030 新藥研究與開發	3	HSCI4004
505075020 靶向藥物與遞藥系統	2	HSCI4007
505188020 個體化藥物治療	2	
505133020 藥物經濟學	2	HSCI4010
505034020 藥事法規	2	
專業教育 - 學科基礎課 (選修)	4	--
通識教育 - 公共基礎課 - 體育 (必修)	1	--
888005010 體育 - 2		
通識教育 - 公共基礎課 - 體育 (必修)	1	--
888006010 體育 - 3		
通識教育 - 公共基礎課 - 體育 (必修)	1	--
888007010 體育 - 4		
908018020 儀器分析實驗 (II)	2	--

¹ The successfully completed course(s) can be used for exempting the Free Elective course(s) at UM, which is required for making up the credits because of testing out Languages and Skills Course(s).

5. Graduation Requirement

The enrolled student shall have successfully completed the following requirements in order to receive the BSc in Pharmaceutical Sciences and Technology from UM and Bachelor of Natural Science in Clinical Pharmacy from SCU.

Year of Study	BSc in Pharmaceutical Sciences and Technology at UM	Bachelor of Natural Science in Clinical Pharmacy at SCU
1 st	79 - 88	54.0 (Transferred from UM)
2 nd		
3 rd	49.5 - 58.5 (Transferred from SCU)	159.0
4 th		
5 th		
Total Credit	137.5	213.0

6. Academic Advisor

If an applicant finds questions, please contact:

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7. Remarks

The relevant professional requirement to be a pharmacist in Macao are governed by:

Lei n.º 18/2020 (第 18/2020 號法律 醫療人員專業資格及執業註冊制度) and

Regulamento Administrativo n.º 35/2021 (第 35/2021 號行政法規 藥物監督管理局的組織及運作).

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.