

## Annex V. Credit Unit Statement

### THE UNIVERSITY OF HONG KONG LI KA SHING FACULTY OF MEDICINE

#### Master of Advanced Pharmacy Credit Unit Statement

(Applicable to students admitted in 2022-2023 and thereafter)

The one-year full-time or two-year part-time Master of Advanced Pharmacy (MAP) curriculum requires completion of a total of 69 credits. Students may choose one of the following streams: Clinical Practice, Community Health or Pharmaceutical Medicine. Candidates who complete 69 credits but do not wish to specialise in or do not satisfy the requirements of any of the three streams outlined in the syllabus shall be regarded as Generalists.

The courses in the programme are categorized into areas of clinical research, therapeutics, health system and management, pharmaceutical medicine, clinical practice and capstone.

Taking reference from the norm for a 3-credit course as to embrace 60 hours of student learning activity (including both contact hours and all other forms of student learning activity), courses vary from 3 to 15 credits (which embrace 60 to 300 learning hours). Assessment is based on a combination of continuous assessment, examination in written format and/or objective structured clinical pharmacy examination (OSCP). Continuous assessment comprises of class tests, in-class performance, and various types of assignments, such as written report, oral presentation, and group projects. The split in assessment is specified for each course in the table below.

The details of the 6 categories of Master of Advanced Pharmacy courses are as follows:

#### 1. Clinical Research (3 credits)

MAPH7000 Evidence-Based Practice provides fundamental concepts of research methodologies and biostatistics to equip students with the skills required to critically appraise literature and conduct research. Teaching and learning strategies include lectures, workshops, tutorials and readings. Assessment will be a combination of continuous assessment (40-100%) and written examination (0-60%). Outputs may include test performance, assignments, and presentations. Word requirement for written output is normally 500 to 1000 words or any coursework equivalent to 6-8 hours of learning load.

#### 2. Therapeutics (6 or 9 credits)

Therapeutics courses focus on the management of various disease states within the body systems in scope. The focus will be on the selection, use and monitoring of pharmacotherapy for these conditions. Students will also gain a holistic view into non-pharmacological management and their implications for medications. Teaching and learning strategies include lectures, seminars, and readings. Assessment will be a combination of continuous assessment (40-100%) and written examination (0-60%). Word requirement for a 6-credit course for written output is normally 500 to 1500 words or any coursework equivalent to 10-14 hours of learning load. Word requirement for a 9-credit course for written output is normally 500 to 1500 words or any coursework equivalent to 15-18 hours of learning load. Nine-credit therapeutic courses will span over two semesters to facilitate reasonable student workload in addition to other courses throughout the year.

#### 3. Clinical Practice (6 credits)

Clinical Practice courses equip students with clinical and transferable skills and experiences, including clinical assessment, communication, drug information, practice and service planning, leadership, medication safety, and more. Teaching and learning strategies including lectures, seminars, ward visits, and readings. Assessment is based on continuous assessment (60%) and Objective Structured Clinical Pharmacy Examination (40%). The learning hours for each 6-credit course is 120 hours. Word requirement for written output is normally 500 to 1500 words or any coursework equivalent to 10-14 hours. Clinical Practice courses will span over two semesters to allow longitudinal and experiential learning and practice of skills that complement the knowledge gained from other courses throughout the year.

#### **4. Health System and Management (3 credits)**

Courses under Health System and Management provide perspective on pharmacy practice models in the primary health setting and broader understanding of healthcare system from a public health lens. Students also learn about the impact of health informatics and big data. Teaching and learning strategies include lectures, seminars, and readings. Assessment will be 100% continuous assessment, therefore word requirement for written output is normally 500 to 1500 words or any coursework equivalent to 16 hours of learning load.

#### **5. Pharmaceutical Medicine (3 or 6 credits)**

Pharmaceutical Medicine courses cover topics essential for practice in the pharmaceutical industry, ranging from development of medicines and the functions and operations of various departments. Teaching and learning strategies include lectures, seminars, and readings. Assessment is conducted through continuous assessment (40%-100%) and final examinations (0-60%). Word requirement for written output for a 3-credit course is normally 500 to 1000 words or any coursework equivalent to 6-8 hours of learning load. Word requirements for written output for a 6-credit course is normally 500 to 1500 words or any coursework equivalent to 10-14 hours of learning load.

#### **6. Capstone (15 credits)**

Student may choose to complete a research project or practicum in their stream.

MAPH7540 Research Project entails at least 300 learning hours. Students will complete a research project from literature review, design, ethics board approval, data collection, and analysis. Students will submit a literature review, research proposal, manuscript (at least 3000 words) and a poster presentation to disseminate the results. Assessment is 100% continuous assessment of output at various stages of the research project. MAPH7540 Research Project will span over two semesters considering the time required to conduct a quality research project from conception to completion.

MAPH7510/7520/7530 are practicums that require 120 hours on practice site. Students will submit a practicum learning log (normally 300-500 words). Students will also complete a project at their practice site, resulting in a project report (at least 1500 words) and a presentation to disseminate the project results. Assessment is 100% continuous assessment at various stages during the practicum. The practicum courses will span over two semesters to ensure that it is realistic for part-time students who are working full-time to complete 120 hours on practice site, and to complete a quality project at the practice site.

Category	Course	Credits	Learning Hours	Contact Hours	Output Requirements	Assessment
<b>Clinical Research</b>	MAPH7000 Evidence-Based Practice	3	60	20	Assignments, test and examinations  Word requirement for written output is normally 500 to 1000 words or any coursework equivalent to 6-8 hours of learning load.	
<b>Therapeutics</b>	MAPH7110 Geriatric & Ambulatory Care	6	120	30	Assignments, in-class performance, test and examinations	Continuous assessment 40-100%  Written examination 0-60%
	MAPH7120 Oncology	6	120	30	For 6-credit course, Word requirement is normally 500-1500 words or any coursework equivalent to 10-14 hours of learning load	
	MAPH7130 Neurology, Psychiatry, Immunology & Rheumatology	6	120	30		
	MAPH7140 Gastroenterology, Hepatology & Infectious Diseases	6	120	30	For 9-credit course, Word requirement is normally 500-1500 words or any coursework equivalent to 15-18 hours of learning load	
	MAPH7150 Nephrology, Fluids & Electrolytes, Paediatrics & Pregnancy	6	120	30		
	MAPH7160 Cardiometabolic Disease, Respiratory & Critical Care	9	180	45		
<b>Health System &amp; Management</b>	MAPH7210 Primary Care and Public Health	3	60	20	Assignments, in-class performance, and/or test	Continuous assessment 100%
	MAPH7220 Health Informatics and Big Data	3	60	20	Word requirement for written output is normally 500 to 1500 words or any coursework equivalent to 16 hours of learning load.	
<b>Pharmaceutical Medicine</b>	MAPH7310 Principles of Drug Actions	6	120	26	Assignments, in-class	

	MAPH7320 Introduction to Pharmaceutical Industry	3	60	20	performance, test and examinations  For 3-credit course, Word requirement is normally 500-1000 words or any coursework equivalent to 6-8 hours of learning load  For 6-credit course, Word requirement is normally 500-1500 words or any coursework equivalent to 10-14 hours of learning load	Continuous assessment 40-100%  Written examination 0-60%
	MAPH7330 Regulatory Affairs - Hong Kong & Beyond	6	120	26		
	MAPH7340 Therapeutic Antibodies	3	60	20		
	MAPH7350 Clinical Trial Management	6	120	30		
	MAPH7360 Advanced Therapy Products	3	60	20		
	MAPH7370 Advanced Drug Delivery and Drug Development	6	120	26		
<b>Clinical Practice</b>	MAPH7410 Integrated Pharmacy Practice I	6	120	30	Assignment, in-class performance, and examinations  Word requirement for written output is normally 500 to 1500 words or any coursework equivalent to 10-14 hours.	Continuous assessment 60%  OSCP 40%
	MAPH7420 Integrated Pharmacy Practice II	6	120	30		
<b>Capstone</b>	MAPH7510 Clinical Practice Practicum	15	300	20	Practicum learning log (normally 300-500 words)	Continuous assessment 100%
	MAPH7520 Community Health Practicum	15	300	20		
	MAPH7530 Pharmaceutical Medicine Practicum	15	300	20	Project report (at least 1500 words) and presentation	
	MAPH7540 Research Project	15	300	20	Literature review, research project proposal, manuscript (at least 3000 words) and poster presentation	

**Total Learning Hours: 1380 hours**

**Total Contact Hours: Approximately 295 to 320 hours, depending on specific courses chosen**