

中國醫藥大學 藥學院藥學系 必修畢業學分認定表 113 學年度入學適用
China Medical University School of Pharmacy Requirement for Undergraduate Majors (Applicable for 2024-2025 Enrollees)

第 1 頁 / 共 8 頁

列印日期(Date)：113年11月8日

科目名稱 Course Title	修別 Type	學分 Credits	一年級 1 st year		二年級 2 nd year		三年級 3 rd year		四年級 4 th year		五年級 5 th year		六年級 6 th year		七年級 7 th year		八年級 8 th year		課程分類 Category	備註 Remarks		
			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下			上	下
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			1	2
中醫藥概論(Introduction of chinese medicine and pharmacy)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
生物學(C)(Biology(C))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
生物學實驗(B)(Biology Laboratory(B))	必(R)	1.0	1.0																系定必修(Departmental Required Courses)			
普通化學(C)(General chemistry (C))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
微積分(一)(Calculus (I))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
藥用植物學(Pharmaceutical botany)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
藥學導論(Pharmacy orientation)	必(R)	1.0	1.0																系定必修(Departmental Required Courses)			
分析化學(B)(Analytical chemistry (B))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
本草學(Pentasaology)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
有機化學(C-1)(Organic Chemistry (C-1))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
普通化學暨有機化學實驗(General and organic chemistry laboratory)	必(R)	1.0	1.0																系定必修(Departmental Required Courses)			
解剖學(Anatomy)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
中藥藥物學(Chinese material medical)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
分子生物學(Molecular biology)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
生物化學(A-1)(Biochemistry(A-1))	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			
生物統計學(Biostatistics)	必(R)	2.0	2.0																系定必修(Departmental Required Courses)			

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			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
生理學(C)(Physiology (C))	必(R)	3.0			3.0														系定必修(Departmental Required Courses)	
生藥學(上)(Pharmacognosy(I))	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
生藥學實驗(Pharmacognosy laboratory)	必(R)	1.0			1.0														系定必修(Departmental Required Courses)	
有機化學(C-2)(Organic Chemistry(C-2))	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
生物化學(A-2)(Biochemistry(A-2))	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
生物化學實驗(C)(Biochemistry laboratory (C))	必(R)	1.0			1.0														系定必修(Departmental Required Courses)	
生藥學(下)(Pharmacognosy(II))	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
物理化學(Physical chemistry)	必(R)	3.0			3.0														系定必修(Departmental Required Courses)	
社區藥學(Community pharmacy)	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
病態生理學(Pathophysiology)	必(R)	2.0			2.0														系定必修(Departmental Required Courses)	
微生物學及免疫學(C)(Microbiology & immunology (C))	必(R)	3.0			3.0														系定必修(Departmental Required Courses)	
藥品資訊分析(Drug information analysis)	必(R)	1.0			1.0														系定必修(Departmental Required Courses)	
實證藥學及研究方法(Evidence-based pharmacy and research method)	必(R)	2.0					2.0												系定必修(臨床藥學組)	E:臨床藥學組必修
整合藥理學(上)(Pharmacology(I))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
藥物分析學(上)(Pharmaceutical analysis (I))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
藥物分析學實驗(Pharmaceutical analysis laboratory)	必(R)	1.0					1.0												系定必修(Departmental Required Courses)	
藥物化學(上)(Pharmaceutical chemistry (I))	必(R)	3.0					3.0												系定必修(Departmental Required Courses)	

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			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
藥物化學實驗(Pharmaceutical chemistry)	必(R)	1.0					1.0												系定必修(Departmental Required Courses)	
藥物治療學(一)含非處方藥(Pharmacotherapy I (with Non-Prescription drugs))	必(R)	1.0					1.0												系定必修(臨床藥學組)	E:臨床藥學組必修
藥劑學(上)(Pharmaceutics (I))	必(R)	3.0					3.0												系定必修(Departmental Required Courses)	
生物藥劑學(Biopharmaceutics)	必(R)	3.0					3.0												系定必修(Departmental Required Courses)	
整合藥理學(下)(Pharmacology(II))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
整合藥理學實驗(Pharmacology laboratory)	必(R)	1.0					1.0												系定必修(Departmental Required Courses)	
藥物分析學(下)(Pharmaceutical analysis (II))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
藥物化學(下)(Pharmaceutical chemistry (II))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
藥物治療學(二)(Clinical therapeutics (II))	必(R)	1.0					1.0												系定必修(臨床藥學組)	E:臨床藥學組必修
藥劑學(下)(Pharmaceutics (II))	必(R)	2.0					2.0												系定必修(Departmental Required Courses)	
藥劑學實驗(Pharmaceutics laboratory)	必(R)	1.0					1.0												系定必修(Departmental Required Courses)	
中藥炮製學(Herb processing)	必(R)	2.0							2.0										系定必修(Departmental Required Courses)	
中藥炮製學實驗(Herb processing laboratory)	必(R)	1.0							1.0										系定必修(Departmental Required Courses)	
方劑學(Prescription of chinese drugs)	必(R)	2.0							2.0										系定必修(Departmental Required Courses)	
非處方藥概論(Introduction of non-prescription products)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
流行病學暨健康照護(Epidemiology and health care)	必(R)	2.0							2.0										系定必修(臨床藥學組)	E:臨床藥學組四上必修
調劑暨臨床藥學(一)(Dispensing and clinical pharmacy (I))	必(R)	2.0							2.0										系定必修(臨床藥學組)	E:臨床藥學組必修
臨床轉譯藥學獨立研究(一)(Clinical translational pharmacy independent research)	必(R)	1.0							1.0										系定必修(臨床藥學組)	E:臨床藥學組必修
臨床藥物動力學(Clinical pharmacokinetics)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
藥物治療學(Drug therapeutics)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
藥物治療學(三)(Pharmacotherapy(III))	必(R)	3.0							3.0										系定必修(臨床藥學組)	E:臨床藥學組必修

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			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
藥學臨床技能(一)含藥事照護(Pharmay clinical skills(I)with pharmaceutical care)	必(R)	1.0							1.0										系定必修(臨床藥學組)	E:臨床藥學組必修
方劑學實驗(Prescription of chinese drugs laboratory)	必(R)	1.0							1.0										系定必修(Departmental Required Courses)	
生物製劑與再生醫療(Biologics and Regenerative Medicine)	必(R)	2.0							2.0										系定必修(Departmental Required Courses)	
衛生政策與健康保險(Health policay and insurance system)	必(R)	2.0							2.0										系定必修(臨床藥學組)	E:臨床藥學組必修
調劑暨臨床藥學(二)(Dispensing and clinical pharmacy (II))	必(R)	2.0							2.0										系定必修(臨床藥學組)	E:臨床藥學組必修
調劑學(Dispensing pharmacy)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
調劑學暨臨床藥學實驗(Dispensing and clinical pharmacy laboratory)	必(R)	2.0							2.0										系定必修(Departmental Required Courses)	
臨床試驗(Clinical trial)	必(R)	1.0							1.0										系定必修(臨床藥學組)	A:藥事執業模組 / E:臨床藥學組必修
臨床試驗(Clinical trial)	必(R)	1.0							1.0										系定選修(Departmental Elective Courses)	A:藥事執業模組 / E:臨床藥學組必修
臨床藥學(Clinical pharmacy)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
藥物治療學(Drug therapeutics)	必(R)	2.0							2.0										系定必修(藥學組)	不認列E:臨床藥學組必修
藥物治療學(四)含臨床藥動(Pharmacotherapy (IV))	必(R)	3.0							3.0										系定必修(臨床藥學組)	E:臨床藥學組必修
藥學與生命科學倫理(Ethics of pharmay & biomedicine)	必(R)	2.0							2.0										系定必修(臨床藥學組)	E:臨床藥學組四下必修
藥學臨床技能(二)含臨床藥動(Pharmay clinical skills(II)with clinical pharmacokinetics)	必(R)	1.0							1.0										系定必修(臨床藥學組)	E:臨床藥學組必修
藥學實習(一)(Pharmacy Internship)	必(R)	2.0								2.0									暑假實習(Summer Internship)	暑假實習
藥學實習(二)(Pharmacy Internship(II))	必(R)	2.0								2.0									暑假實習(Summer Internship)	暑假實習
藥學實習(三)(Pharmacy internship(III))	必(R)	9.0								9.0									學期實習(Semester Internship)	醫院實習
流行病學暨健康照護(Epidemiology and health care)	必(R)	2.0								2.0									系定必修(藥學組)	
進階藥學實習導論(Introduction of advanced pharmacy practice experience)	必(R)	1.0								1.0									系定必修(臨床藥學組)	E:臨床藥學組必修
臨床轉譯藥學獨立研究(二)(Clinical translational pharmacy independent research (II))	必(R)	1.0								1.0									系定必修(臨床藥學組)	E:臨床藥學組必修
藥事行政及法規(Pharmacy administration & pharmaceutical law)	必(R)	2.0								2.0									系定必修(Departmental Required Courses)	
藥事管理與藥事經濟學(Pharmacy management and pharmacoconomics)	必(R)	2.0								2.0									系定必修(臨床藥學組)	E:臨床藥學組必修
藥物治療學(五)(Pharmacotherapy (V))	必(R)	3.0								3.0									系定必修(臨床藥學組)	E:臨床藥學組必修
藥物治療學(六)(Pharmacotherapy (VI))	必(R)	3.0								3.0									系定必修(臨床藥學組)	E:臨床藥學組必修
藥學與生命科學倫理(Ethics of pharmay & biomedicine)	必(R)	2.0								2.0									系定必修(藥學組)	
藥學臨床技能(三)含用藥諮詢(Pharmay clinical skills(III)with medication counseling)	必(R)	1.0								1.0									系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(一)(Advanced pharmacy practice experience (I))	必(R)	2.0									2.0								系定必修(臨床藥學組)	E:臨床藥學組必修

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			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下			
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			
進階藥學實習(二)(Advanced pharmacy practice experience (II))	必(R)	4.0												4.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(三)(Advanced pharmacy practice experience (III))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
臨床藥學專題討論(一)(Special topic of clinical pharmacy)	必(R)	1.0												1.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(七)(Advanced pharmacy practice experience (VII))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(八)(Advanced pharmacy practice experience (VIII))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(五)(Advanced pharmacy practice experience (V))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(六)(Advanced pharmacy practice experience (VI))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
進階藥學實習(四)(Advanced pharmacy practice experience (IV))	必(R)	2.0												2.0						系定必修(臨床藥學組)	E:臨床藥學組必修
臨床藥學專題討論(二)(Special topic of clinical pharmacy (II))	必(R)	1.0												1.0						系定必修(臨床藥學組)	E:臨床藥學組必修
臨床藥學總整課程(Clinical pharmacy capstone)	必(R)	1.0												1.0						系定必修(臨床藥學組)	E:臨床藥學組必修
合計 必修總學分(Requirement subtotal)		176.0	12.0	9.0	16.0	16.0	15.0	14.0	20.0	23.0	13.0	17.0	9.0	12.0							

校內注意事項

Note of CMU

113學年度入學生畢業學分認定表備註：

- 一、畢業前必須通過英文鑑定，方能畢業。相關規定依本校「學生英文能力鑑定實施辦法」辦理。
- 二、體育課一年級為必修，每學期0學分，不及格不得畢業。大學部二年級以上為選修，每學期一學分。
- 三、國防軍事訓練改為選修，每週上課2小時為1學分，成績及格者，83年次以前同學以每8堂課折算1日役期(1門課折抵4日役期，2門課折抵9日役期，以此類推)。83年次以後同學每門課折抵2日訓期。

四、通識教育課程分為正式課程及通識教育活動：

(一)正式課程：必修28學分

1. 英文必修4學分

英文課程採分級制，分級以大學指考及學測成績為依據，分級結果於選課前公告。如達該學系英文畢業檢定標準，經所屬學系審核通過，得免修英文4學分，相關細則依「中國醫藥大學英文暨英語聽講必修課程免修學分實施要點」規定辦理。

2. 資訊相關課程 (2學分)

3. 服務學習課程 (1學分)

4. 通識課程 (21學分)

(1) 核心通識課程：至少修習10學分，五大類中至少任選三大類。

- A. 語文類：國文、英文進階課程及第二外語課程等。
- B. 人文藝術類：文學藝術類、歷史文明類等。
- C. 社會科學類：法政類；社會、心理、人類、教育、性別研究類；管理、經濟類等。
- D. 自然科學類：基礎科學類；生命科學類；應用科學類；科學技術類等。
- E. 運動知能類：如運動心理學、運動生理學、國際賽事分析與博奕事業、運動與健康的學理探討等學術類課程。如屬該學系之必選修課程者，將設限不得認列為通識學分。

(2) 跨學院通識課程：至少須修習跨學院課程4學分。

(二) 通識教育活動：0學分，學生須於在學期間參與至少16小時通識教育中心所認定之演講與校外所舉辦之展演活動；成績以通過/不通過計分。相關細則依「通識教育活動實施要點」規定辦理。

五、服務學習時數：需修習通識必修1學分(可認列18小時服務學習課程)(醫學系、中醫學系另於下學期開設系上必修1學分)之服務學習課程，以及6小時志願服務基礎教育訓練、6小時服務學習講座參與、18小時志工服務(不含服務學習講座)，共計需完成48小時之服務學習時數，始符合畢業資格。

For students enrolled in the fall semester of 2024:

1. According to the regulation of CMU Students' English Proficiency Assessment, Students must pass the minimal English Proficiency Requirement before graduation.
 2. Taking Physical Education Course is compulsory for first year students (0 credits), students must pass to graduate. For second year or above, Physical Education is elective with 1 credit per semester.
 3. Defense Education Military Training Course is elective, with 2 hours per week (1 credit).
 4. General education courses consist of formal courses and general education activities:
 - (1) Formal courses: 28 required credits
 - i. English (4 credits): A level-based class grouping system is adopted based on students' score of the entrance examination. Students who meet the department's English graduation standard and are approved by the department can be exempted from the course.
 - ii. Technology Information-related courses (2 credits)
 - iii. Service learning courses (1 credit)
 - iv. General education courses (21 credits)
- Core general education courses: Minimum of 10 credits, with at least three of the five categories. (Language, Humanities and arts, Social sciences, Natural sciences, Sports)
- Cross-college general education courses: Minimum of 4 credits.
- (2) General education activities: 0 credits. Students must participate in at least 16 hours of activities held by the General Education Center, scores will be marked as pass/fail.
 5. Service learning hours: 1 credit of compulsory general education (can be listed in 18 hours of service learning courses) (School of Medicine and Chinese Medicine will offer 1 credit of compulsory course in the 2nd semester), 6 hours of voluntary service basic training, 6 hours participation service-learning lectures, and 18 hours of volunteer service. A total of 48 hours is required to be eligible for graduation.

※ Voluntary service basic training will be held by the Office of Student Affairs (to be announced).
 6. Students must participate in the basic cardiopulmonary resuscitation training held by the university before graduation.
 7. This list is used as the recognition basis of courses and credits required for graduation

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※志願服務基礎訓練由學務處服務學習中心舉辦（另行公告），其他未盡事宜請詳閱「服務學習課程實施要點」（學務處服務學習中心網頁）。

六、畢業前必須參加校內舉辦之基礎心肺復甦術訓練，方具畢業資格。相關規定依本校「學生基礎心肺復甦術訓練實施要點」辦理。

七、本學分表做為畢業學分認定之依據。

藥學系注意事項

Note of School of Pharmacy

藥學系注意事項：

****五年制-藥學組****

一、教育目標：規劃包括-臨床藥學、中國藥學、工業藥學、藥學研究等多元化之藥學專業課程，以培育學生成為符合現代社會藥事需求之專業人才。

二、113學年度入學新生實施，本系五年制，最低畢業學分為167學分，含必修147學分，選修20學分(需有16學分為本系開之學分)。

*藥學體驗學習：暑假(7、8月)見習。

*藥學實習時數應達到相關規定：

必修-藥學實習(一)與(二)實習時數分別應達160小時，合計時間應達320小時，藥學實習(一)、(二)至少需完成一次社區藥局實習2學分(160小時)；藥學實習(三)實習時數應達640小時。

選修-中藥實習(一)、(二)實習時數分別應達80小時。

*藥學實習單位：

藥學實習(一)與(二)與學生選擇醫院以外之其他單位，包括社區藥局、藥廠、藥品公司，及政府相關藥事單位。

藥學實習(三)-醫院藥局單位。

三、教學分組選課輔導建議及規定：

A:藥事執業模組：專業選修至少選6門，至少12學分。

B:中藥執業模組：專業選修至少選5門及中藥局實習至少160小時，至少12學分。

C:製藥產業模組：專業選修至少選6門，至少12學分，可上修2門藥學院製藥碩士學位學程藥事經營(1上，2學分)、法規及臨床試驗(1下，2學分)。

D:藥學研究模組：專業選修至少選6門，至少12學分。藥物開發導論、藥學科學研究、藥學研究體驗為必選課程。

****六年制-臨床藥學組****

一、教育目標：規劃包括-臨床藥學、中國藥學、工業藥學、藥學研究等多元化之藥學專業課程，以培育學生成為符合現代社會藥事需求之專業人才。

二、113學年度入學新生實施，經公開徵選進入本系六年制，最低畢業學分為207學分，含必修187學分，選修20學分(需有16學分為本系開之學分)。

*藥學體驗學習：暑假(7、8月)見習。

*藥學實習時數應達到相關規定：

必修-藥學實習(一)與(二)實習時數分別應達160小時，合計時間應達320小時，藥學實習(一)、(二)至少需完成一次社區藥局實習2學分(160小時)；藥學實習(三)實習時數應達640小時。

必修-進階藥學實習(一)~(八)共18學分，應達至少1440小時。

*藥學實習單位：

藥學實習(一)與(二)-學生選擇醫院以外之其他單位，包括社區藥局、藥廠、藥品公司，及政府相關藥事單位。

藥學實習(三)-醫院藥局單位。

*進階藥學實習單位：

進階藥學實習(一)指醫院藥事暨臨床藥物照護服務(包括藥物不良反應、藥物諮詢、藥物使用評估、抗生素評估、疑義處方評估、warfarin/出院衛教等)

進階藥學實習(二)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(三)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(四)指進階藥業、藥廠、藥政等

進階藥學實習(五)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病

****Five-Year Program: Pharmacy Group****

1.Educational goals: Cultivate talents to become pharmacy professionals in the modern society with diverse courses including clinical pharmacy, Chinese medicine, industrial pharmacy, and pharmacy research.

2.For students enrolled in 2024: The study period of the program is five years. The minimum number of credits required for graduation is 167, including 147 required courses credits and 20 elective courses credits (16 credits must be taken from the courses offered in School of Pharmacy).

* Pharmacy practice experience: summer vacation (July and August) internship.

* The hours of pharmacy practice shall meet the following regulation: Compulsory-Pharmacy Internship (I) and (II) should reach 160 hours respectively, with total of 320 hours. Pharmacy Internship (I) and (II) shall complete at least one community pharmacy practice for 2 credits (160 hours); Pharmacy Internship (III) shall complete practice for 640 hours.

Elective- Traditional Chinese Medicine Pharmacy Internship (I) and (II) shall reach 80 hours respectively.

*Internship unit:

Pharmacy Internship (I) and (II): Units other than hospital, such as community pharmacies, pharmaceutical factories, pharmaceutical companies, and government-related pharmaceutical units.

Pharmacy Internship (III): Hospital pharmacy unit.

3.Suggestions and regulations for each group:

A.Pharmacy practice group: At least 6 professional electives, minimum of 12 credits.

B.Traditional Chinese medicine practice group: At least 5 professional electives and at least 160 hours of internship at the Bureau of Traditional Chinese Medicine, minimum of 12 credits.

C.Pharmaceutical industry group: At least 6 professional electives, minimum of 12 credits. Students can take 2 courses in the masters program: Drug development and strategy (2 credits), Regulation and clinical trials (2 credits).

D.Pharmacy research group: At least 6 professional electives, minimum of 12 credits. An introduction to drug development, Pharmaceutical science research, and Experience learning on pharmaceutical research are compulsory courses.

****Six-Year Program: Clinical Pharmacy Group****

1.Educational goals: Cultivate talents to become pharmacy professionals in the modern society with diverse courses including clinical pharmacy, Chinese medicine, industrial pharmacy, and pharmacy research.

2.For students enrolled in 2024: The study period of the program is six years. The minimum number of credits required for graduation is 207, including 187 required courses credits and 20 elective courses credits (16 credits must be taken from the courses offered in School of Pharmacy).

* Pharmacy practice experience: summer vacation (July and August) internship.

* The hours of pharmacy practice shall meet the following regulation: Compulsory-Pharmacy Internship (I) and (II) should reach 160 hours respectively, with total of 320 hours. Pharmacy Internship (I) and (II) shall complete at least one community pharmacy practice for 2 credits (160 hours); Pharmacy Internship (III) shall complete practice for 640 hours.

Compulsory- Advanced pharmacy practice (I)~(VIII), total of 18 credits, shall reach at least 1440 hours.

*Internship unit:

Pharmacy Internship (I) and (II): Units other than hospital, such as

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房等，依實習單位輪點安排)

進階藥學實習(六)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(七)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(八)指進階社區藥局實習與長照/居家藥事照護等

三、教學分組選課輔導建議及規定：

經公開徵選進入本系六年制者自動進入E:臨床藥學組，若仍有興趣進入其他教學分組請參考五年制畢業學分認定表之各組選課建議及規定。

community pharmacies, pharmaceutical factories, pharmaceutical companies, and government-related pharmaceutical units.

Pharmacy Internship (III): Hospital pharmacy unit.

Advanced pharmacy practice unit:

(I): Hospital pharmacy and clinical drug care services (including adverse drug reactions, drug consultation, drug use evaluation, antibiotic evaluation, doubtful prescription evaluation, warfarin/discharge health education, etc.)

(II): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(III): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(IV): Advanced pharmaceutical industry, pharmaceutical factory, pharmaceutical administration, etc.

(V): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VI): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VII): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VIII): Advanced community pharmacy internship and long-term care/home pharmaceutical care, etc.

3.Suggestions and regulations for each group:

E.Clinical pharmacy group: Students in the six-year program is in the clinical pharmacy group.

If students are interested in groups of the five-year program, please refer to the regulations for each group in the five-year program.

單位主管簽章：

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列印日期(Date)：113年11月8日

科目名稱 Course Title	修別 Type	學分 Credits	一年級 1 st year		二年級 2 nd year		三年級 3 rd year		四年級 4 th year		五年級 5 th year		六年級 6 th year		七年級 7 th year		八年級 8 th year		課程分類 Category	備註 Remarks		
			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下			上	下
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			1	2
中藥概論(Introduction of Chinese pharmacy)	選(E)	2.0	2.0																系定選修(Departmental Elective Courses)			
生物科技概論(Introduction to biotechnology)	選(E)	2.0	2.0																系定選修(Departmental Elective Courses)	生物技術學分學程/D:藥學研究模組		
藥用動物學(Pharmaceutical zoology)	選(E)	1.0	1.0																系定選修(Departmental Elective Courses)			
中醫學概論(B)(Introduction to Chinese medicine (B))	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	中醫藥學分學程		
食品與保健(Food & health)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)			
與病人為友(Standing by the patient)	選(E)	1.0		1.0															系定選修(Departmental Elective Courses)			
製藥科學研究(Pharmaceutical science research)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	C:製藥產業模組		
藥用植物學實驗(Pharmaceutical botany laboratory)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	中草藥生物技術學程/B:中藥執業模組		
藥物開發暨轉譯科學研究(Drug development and translational science research)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	A:藥事執業模組		
藥物開發導論(An introduction to drug development)	選(E)	3.0		3.0															系定選修(Departmental Elective Courses)	D:藥學研究模組		
藥學科學研究(Pharmaceutical science research)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	D:藥學研究模組		
藥膳學(Herb dietetics)	選(E)	2.0		2.0															系定選修(Departmental Elective Courses)	B:中藥執業模組		
中藥藥材學(Chinese material medica)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	中草藥生物技術學程/B:中藥執業模組		
分析化學實驗(A)(Analytical chemistry laboratory (A))	選(E)	1.0			1.0														系定選修(Departmental Elective Courses)			
生物科技管理(Biotechnology management)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)			
國際醫療照顧與藥品使用(International health care & medication use)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	開放碩班學生下修/A:藥事執業模組		

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列印日期(Date)：113年11月8日

科目名稱 Course Title	修別 Type	學分 Credits	一年級 1 st year		二年級 2 nd year		三年級 3 rd year		四年級 4 th year		五年級 5 th year		六年級 6 th year		七年級 7 th year		八年級 8 th year		課程分類 Category	備註 Remarks
			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
論文導讀暨研究計畫撰寫(Research article reading and project writing)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	D: 藥學研究模組
藥物學(Material medica)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	
藥學研究體驗(Experience learning on pharmaceutical research)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	D: 藥學研究模組
藥學體驗學習(Experience learning on pharmacy)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	暑假見習/A: 藥事執業模組/B: 中藥執業模組/C: 製藥產業模組
中藥藥理學(Herb pharmacology)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	B: 中藥執業模組
分子生物學應用導論(An introduction to molecular biology and application)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	D: 藥學研究模組
天然物化學(Natural products chemistry)	選(E)	3.0			3.0														系定選修(Departmental Elective Courses)	中草藥生物技術學程
細胞生物學(Cellular biology)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	D: 藥學研究模組
微生物學及免疫學實驗(D)(Microbiology & immunology laboratory (D))	選(E)	1.0			1.0														系定選修(Departmental Elective Courses)	
藥事經濟學(Pharmacoeconomics)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	A: 藥事執業模組
智慧財產權與實務(Intellectual property & practice)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	生物技術學分學程
實證藥學(Evidence-based pharmacy)	選(E)	2.0			2.0														系定選修(臨床藥學組不認列)	A: 藥事執業模組/不認列E: 臨床藥學組選修
藥用高分子化學(Pharmaceutical polymer chemistry)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	生物技術學分學程
中藥鑑定學(Identification of Chinese drugs)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	B: 中藥執業模組
社區藥局經營管理(Pharmacy Business Management)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	A: 藥事執業模組
毒理學(Toxiology)	選(E)	2.0			2.0														系定選修(Departmental Elective Courses)	

中國醫藥大學 藥學院藥學系 選修畢業學分認定表 113 學年度入學適用
China Medical University School of Pharmacy Elective for Undergraduate Majors (Applicable for 2024-2025 Enrollees)

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列印日期(Date)：113年11月8日

科目名稱 Course Title	修別 Type	學分 Credits	一年級 1 st year		二年級 2 nd year		三年級 3 rd year		四年級 4 th year		五年級 5 th year		六年級 6 th year		七年級 7 th year		八年級 8 th year		課程分類 Category	備註 Remarks
			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
儀器分析(Instrumental analysis)	選(E)	2.0						2.0											系定選修(Departmental Elective Courses)	生物技術學分學程/C:製藥產業模組
臨床檢驗學(Clinical laboratory medicine)	選(E)	2.0						2.0											系定選修(Departmental Elective Courses)	
藥事執業管理(Management of pharmacy practice)	選(E)	2.0						2.0											系定選修(臨床藥學組不認列)	A:藥事執業模組/不認列 E:臨床藥學組選修
藥物分析學實驗(Pharmaceutical analysis laboratory)	選(E)	1.0						1.0											系定選修(Departmental Elective Courses)	
藥業行銷(Pharmaceutical marketing)	選(E)	2.0						2.0											系定選修(Departmental Elective Courses)	C:製藥產業模組
工業藥學(Industrial pharmacy)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	C:製藥產業模組
中藥品質管制學(Quality control of Chinese medicine)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	B:中藥執業模組
中藥廠實務(Chinese medicine factory practice)	選(E)	3.0							3.0										系定選修(Departmental Elective Courses)	B:中藥執業模組
中藥調劑學(Dispensing of Chinese medicine)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	B:中藥執業模組
動物藥理學(Animal pharmacology)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	
專題研究(一)(Research project (I))	選(E)	1.0							1.0										系定選修(Departmental Elective Courses)	
製劑實務工程(Practical preparation engineering)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	C:製藥產業模組
臨床藥理學(Clinical pharmacology)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	A:藥事執業模組
藥物科技講座(Lecture on pharmaceutical technology)	選(E)	2.0							2.0										系定選修(Departmental Elective Courses)	D:藥學研究模組
海外藥事體驗學習(Overseas Pharmacy Experience Learning)	選(E)	1.0							1.0										系定選修(Departmental Elective Courses)	1. 英文授課 2. 開放藥妝系同學選修
專題研究(二)(Research project (II))	選(E)	1.0							1.0										系定選修(Departmental Elective Courses)	

中國醫藥大學 藥學院藥學系 選修畢業學分認定表 113 學年度入學適用
China Medical University School of Pharmacy Elective for Undergraduate Majors (Applicable for 2024-2025 Enrollees)

第 4 頁 / 共 7 頁

列印日期(Date)：113年11月8日

科目名稱 Course Title	修別 Type	學分 Credits	一年級 1 st year		二年級 2 nd year		三年級 3 rd year		四年級 4 th year		五年級 5 th year		六年級 6 th year		七年級 7 th year		八年級 8 th year		課程分類 Category	備註 Remarks		
			上	下	上	下	上	下	上	下	上	下	上	下	上	下	上	下			上	下
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			1	2
新劑型開發(Development of advancing pharmaceutical forms)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)	C:製藥產業模組		
新藥開發(Drug discovery & development)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)	D:藥學研究模組		
臨床藥學病例討論(Clinical case conference)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)	A:藥事執業模組		
藥用化妝品學(Pharmacocosmetics)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)			
藥用方言(Medicinal dialect)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)			
藥物合成(Drug synthesis)	選(E)	2.0								2.0									系定選修(Departmental Elective Courses)	C:製藥產業模組		
藥學臨床技能(Clinical skills for pharmacists)	選(E)	2.0								2.0									系定選修(臨床藥學組不認列)	不認列E:臨床藥學組選修		
AI人工智慧藥學(Artificial intelligence in pharmacy)	選(E)	2.0									2.0								系定選修(Departmental Elective Courses)			
中藥實習(一)(Traditional chinese medicine pharmacy internship(I))	選(E)	1.0									1.0								系定選修(Departmental Elective Courses)			
中藥實習(二)(Traditional chinese medicine pharmacy internship(II))	選(E)	1.0									1.0								系定選修(Departmental Elective Courses)			
中藥臨床學(Clinical therapeutics of Chinese medicine)	選(E)	2.0									2.0								系定選修(Departmental Elective Courses)	B:中藥執業模組		
應用藥事執業(Applied pharmacy practice)	選(E)	1.0									1.0								系定選修(Departmental Elective Courses)	A:藥事執業模組		
應用藥物研發(Applied drug discovery)	選(E)	1.0									1.0								系定選修(Departmental Elective Courses)			
臨床心理學(Clinical psychology)	選(E)	2.0									2.0								系定選修(Departmental Elective Courses)			
藥物濫用防治(Substance abuse prevention and control)	選(E)	2.0									2.0								系定選修(Departmental Elective Courses)			
藥學轉譯研究(Pharmaceutical translational research)	選(E)	2.0									2.0								系定選修(Departmental Elective Courses)	D:藥學研究模組		
合計 選修總學分(Elective subtotal)		119.0	5.0	18.0	15.0	12.0	6.0	15.0	18.0	16.0	14.0											

校內注意事項

Note of CMU

中國醫藥大學 藥學院藥學系 選修畢業學分認定表 113 學年度入學適用
China Medical University School of Pharmacy Elective for Undergraduate Majors (Applicable for 2024-2025 Enrollees)

113學年度入學生畢業學分認定表備註：

- 一、畢業前必須通過英文鑑定，方能畢業。相關規定依本校「學生英文能力鑑定實施辦法」辦理。
- 二、體育課一年級為必修，每學期0學分，不及格不得畢業。大學部二年級以上為選修，每學期一學分。
- 三、國防軍事訓練改為選修，每週上課2小時為1學分，成績及格者，83年次以前同學以每8堂課折算1日役期(1門課折抵4日役期，2門課折抵9日役期，以此類推)。83年次以後同學每門課折抵2日訓期。
- 四、通識教育課程分為正式課程及通識教育活動：
 - (一)正式課程：必修28學分
 1. 英文必修4學分
英文課程採分級制，分級以大學指考及學測成績為依據，分級結果於選課前公告。如達該學系英文畢業檢定標準，經所屬學系審核通過，得免修英文4學分，相關細則依「中國醫藥大學英文暨英語聽講必修課程免修學分實施要點」規定辦理。
 2. 資訊相關課程(2學分)
 3. 服務學習課程(1學分)
 4. 通識課程(21學分)
 - (1)核心通識課程：至少修習10學分，五大類中至少任選三大類。
 - A. 語文類：國文、英文進階課程及第二外語課程等。
 - B. 人文藝術類：文學藝術類、歷史文明類等。
 - C. 社會科學類：法政類；社會、心理、人類、教育、性別研究類；管理、經濟類等。
 - D. 自然科學類：基礎科學類；生命科學類；應用科學類；科學技術類等。
 - E. 運動知能類：如運動心理學、運動生理學、國際賽事分析與博奕事業、運動與健康的學理探討等學術類課程。如屬該學系之必選修課程者，將設限不得認列為通識學分。
 - (2)跨學院通識課程：至少須修習跨學院課程4學分。
 - (二)通識教育活動：0學分，學生須於在學期間參與至少16小時通識教育中心所認定之演講與校外所舉辦之展演活動；成績以通過/不通過計分。相關細則依「通識教育活動實施要點」規定辦理。
 - 五、服務學習時數：需修習通識必修1學分(可認列18小時服務學習課程)(醫學系、中醫學系另於下學期開設系上必修1學分)之服務學習課程，以及6小時志願服務基礎教育訓練、6小時服務學習講座參與、18小時志工服務(不含服務學習講座)，共計需完成48小時之服務學習時數，始符合畢業資格。
※志願服務基礎訓練由學務處服務學習中心舉辦(另行公告)，其他未盡事宜請詳閱「服務學習課程實施要點」(學務處服務學習中心網頁)。
 - 六、畢業前必須參加校內舉辦之基礎心肺復甦術訓練，方具畢業資格。相關規定依本校「學生基礎心肺復甦術訓練實施要點」辦理。
 - 七、本學分表做為畢業學分認定之依據。

For students enrolled in the fall semester of 2024:

1. According to the regulation of CMU Students' English Proficiency Assessment, Students must pass the minimal English Proficiency Requirement before graduation.
2. Taking Physical Education Course is compulsory for first year students (0 credits), students must pass to graduate. For second year or above, Physical Education is elective with 1 credit per semester.
3. Defense Education Military Training Course is elective, with 2 hours per week (1 credit).
4. General education courses consist of formal courses and general education activities:
 - (1) Formal courses: 28 required credits
 - i. English (4 credits): A level-based class grouping system is adopted based on students' score of the entrance examination. Students who meet the department's English graduation standard and are approved by the department can be exempted from the course.
 - ii. Technology Information-related courses (2 credits)
 - iii. Service learning courses (1 credit)
 - iv. General education courses (21 credits)
Core general education courses: Minimum of 10 credits, with at least three of the five categories. (Language, Humanities and arts, Social sciences, Natural sciences, Sports)
Cross-college general education courses: Minimum of 4 credits.
 - (2) General education activities: 0 credits. Students must participate in at least 16 hours of activities held by the General Education Center, scores will be marked as pass/fail.
5. Service learning hours: 1 credit of compulsory general education (can be listed in 18 hours of service learning courses) (School of Medicine and Chinese Medicine will offer 1 credit of compulsory course in the 2nd semester), 6 hours of voluntary service basic training, 6 hours participation service-learning lectures, and 18 hours of volunteer service. A total of 48 hours is required to be eligible for graduation.
※ Voluntary service basic training will be held by the Office of Student Affairs (to be announced).
6. Students must participate in the basic cardiopulmonary resuscitation training held by the university before graduation.
7. This list is used as the recognition basis of courses and credits required for graduation

藥學系注意事項

Note of School of Pharmacy

藥學系注意事項：

****五年制-藥學組****

一、教育目標：規劃包括-臨床藥學、中國藥學、工業藥學、藥學研究等多元化之藥學專業課程，以培育學生成為符合現代社會藥事需求之專業人才。

二、113學年度入學新生實施，本系五年制，最低畢業學分為167學分，含必修147學分，選修20學分(需有16學分為本系開之學分)。

*藥學體驗學習：暑假(7、8月)見習。

*藥學實習時數應達到相關規定：

必修-藥學實習(一)與(二)實習時數分別應達160小時，合計時間應達320小時，藥學實習(一)、(二)至少需完成一次社區藥局實習2學分(160小時)；藥學實習(三)實習時數應達640小時。

選修-中藥實習(一)、(二)實習時數分別應達80小時。

*藥學實習單位：

藥學實習(一)與(二)與學生選擇醫院以外之其他單位，包括社區藥局、藥廠、藥品公司，及政府相關藥事單位。

藥學實習(三)-醫院藥局單位。

三、教學分組選課輔導建議及規定：

A:藥事執業模組：專業選修至少選6門，至少12學分。

B:中藥執業模組：專業選修至少選5門及中藥局實習至少160小時，至少12學分。

C:製藥產業模組：專業選修至少選6門，至少12學分，可上修2門藥學院製藥碩士學位學程藥事經營(1上，2學分)、法規及臨床試驗(1下，2學分)。

D:藥學研究模組：專業選修至少選6門，至少12學分。藥物開發導論、藥學科學研究、藥學研究體驗為必選課程。

****六年制-臨床藥學組****

一、教育目標：規劃包括-臨床藥學、中國藥學、工業藥學、藥學研究等多元化之藥學專業課程，以培育學生成為符合現代社會藥事需求之專業人才。

二、113學年度入學新生實施，經公開徵選進入本系六年制，最低畢業學分為207學分，含必修187學分，選修20學分(需有16學分為本系開之學分)。

*藥學體驗學習：暑假(7、8月)見習。

*藥學實習時數應達到相關規定：

必修-藥學實習(一)與(二)實習時數分別應達160小時，合計時間應達320小時，藥學實習(一)、(二)至少需完成一次社區藥局實習2學分(160小時)；藥學實習(三)實習時數應達640小時。

必修-進階藥學實習(一)~(八)共18學分，應達至少1440小時。

*藥學實習單位：

藥學實習(一)與(二)-學生選擇醫院以外之其他單位，包括社區藥局、藥廠、藥品公司，及政府相關藥事單位。

藥學實習(三)-醫院藥局單位。

*進階藥學實習單位：

進階藥學實習(一)指醫院藥事暨臨床藥物照護服務(包括藥物不良反應、藥物諮詢、藥物使用評估、抗生素評估、疑義處方評估、warfarin/出院衛教等)

進階藥學實習(二)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(三)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(四)指進階藥業、藥廠、藥政等

進階藥學實習(五)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病

****Five-Year Program: Pharmacy Group****

1.Educational goals: Cultivate talents to become pharmacy professionals in the modern society with diverse courses including clinical pharmacy, Chinese medicine, industrial pharmacy, and pharmacy research.

2.For students enrolled in 2024: The study period of the program is five years. The minimum number of credits required for graduation is 167, including 147 required courses credits and 20 elective courses credits (16 credits must be taken from the courses offered in School of Pharmacy).

* Pharmacy practice experience: summer vacation (July and August) internship.

* The hours of pharmacy practice shall meet the following regulation: Compulsory-Pharmacy Internship (I) and (II) should reach 160 hours respectively, with total of 320 hours. Pharmacy Internship (I) and (II) shall complete at least one community pharmacy practice for 2 credits (160 hours); Pharmacy Internship (III) shall complete practice for 640 hours.

Elective- Traditional Chinese Medicine Pharmacy Internship (I) and (II) shall reach 80 hours respectively.

*Internship unit:

Pharmacy Internship (I) and (II): Units other than hospital, such as community pharmacies, pharmaceutical factories, pharmaceutical companies, and government-related pharmaceutical units.

Pharmacy Internship (III): Hospital pharmacy unit.

3.Suggestions and regulations for each group:

A.Pharmacy practice group: At least 6 professional electives, minimum of 12 credits.

B.Traditional Chinese medicine practice group: At least 5 professional electives and at least 160 hours of internship at the Bureau of Traditional Chinese Medicine, minimum of 12 credits.

C.Pharmaceutical industry group: At least 6 professional electives, minimum of 12 credits. Students can take 2 courses in the masters program: Drug development and strategy (2 credits), Regulation and clinical trials (2 credits).

D.Pharmacy research group: At least 6 professional electives, minimum of 12 credits. An introduction to drug development, Pharmaceutical science research, and Experience learning on pharmaceutical research are compulsory courses.

****Six-Year Program: Clinical Pharmacy Group****

1.Educational goals: Cultivate talents to become pharmacy professionals in the modern society with diverse courses including clinical pharmacy, Chinese medicine, industrial pharmacy, and pharmacy research.

2.For students enrolled in 2024: The study period of the program is six years. The minimum number of credits required for graduation is 207, including 187 required courses credits and 20 elective courses credits (16 credits must be taken from the courses offered in School of Pharmacy).

* Pharmacy practice experience: summer vacation (July and August) internship.

* The hours of pharmacy practice shall meet the following regulation: Compulsory-Pharmacy Internship (I) and (II) should reach 160 hours respectively, with total of 320 hours. Pharmacy Internship (I) and (II) shall complete at least one community pharmacy practice for 2 credits (160 hours); Pharmacy Internship (III) shall complete practice for 640 hours.

Compulsory- Advanced pharmacy practice (I)~(VIII), total of 18 credits, shall reach at least 1440 hours.

*Internship unit:

Pharmacy Internship (I) and (II): Units other than hospital, such as

中國醫藥大學 藥學院藥學系 選修畢業學分認定表 113 學年度入學適用

China Medical University School of Pharmacy Elective for Undergraduate Majors (Applicable for 2024-2025 Enrollees)

房等，依實習單位輪點安排)

進階藥學實習(六)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(七)指病房臨床藥學實習(包括內科加護病房，感染科，呼吸加護病房，心臟內科加護病房，無菌製劑調配室，新生兒加護病房，神經內/外科加護病房，外科加護病房等，依實習單位輪點安排)

進階藥學實習(八)指進階社區藥局實習與長照/居家藥事照護等

三、教學分組選課輔導建議及規定：

經公開徵選進入本系六年制者自動進入E:臨床藥學組，若仍有興趣進入其他教學分組請參考五年制畢業學分認定表之各組選課建議及規定。

community pharmacies, pharmaceutical factories, pharmaceutical companies, and government-related pharmaceutical units.

Pharmacy Internship (III): Hospital pharmacy unit.

Advanced pharmacy practice unit:

(I): Hospital pharmacy and clinical drug care services (including adverse drug reactions, drug consultation, drug use evaluation, antibiotic evaluation, doubtful prescription evaluation, warfarin/discharge health education, etc.)

(II): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(III): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(IV): Advanced pharmaceutical industry, pharmaceutical factory, pharmaceutical administration, etc.

(V): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VI): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VII): The clinical pharmacy internship in the ward (including internal medicine intensive care unit, infectious disease department, respiratory intensive care unit, cardiology intensive care unit, sterile preparation room, neonatal intensive care unit, neurology/neurosurgical intensive care unit, surgical intensive care unit, etc., according to the rotation arrangement of the internship unit)

(VIII): Advanced community pharmacy internship and long-term care/home pharmaceutical care, etc.

3.Suggestions and regulations for each group:

E.Clinical pharmacy group: Students in the six-year program is in the clinical pharmacy group.

If students are interested in groups of the five-year program, please refer to the regulations for each group in the five-year program.

單位主管簽章：