

中山醫學大學

Chung Shan Medical University

115 學年度雙主修應修科目及學分表

Courses and Credits for Double Major in the 115th Academic Year

醫學科技學院醫學影像暨放射科學系

Department of Medical Imaging and Radiological Sciences

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
解剖學	Human Anatomy	必修 Required	2	2	0	
普通物理學	General Physics	必修 Required	2	2	0	
微積分	Calculus	必修 Required	2	2	0	
醫學影像原理	Principles of Medical Imaging	必修 Required	2	2	0	
醫用英文	English for Medical Professionals	必修 Required	2	2	0	
普通生物學(一)	General Biology (I)	必修 Required	2	2	0	
生理學	Physiology	必修 Required	2	0	2	
應用數學(一)	Applied Mathematics(I)	必修 Required	2	0	2	
醫學影像傳輸系統	Pictures Archiving and Communication Systems	必修 Required	2	0	2	
普通生物學(二)	General Biology (II)	必修 Required	2	0	2	
普通物理學實驗	General Physics Laboratory	必修 Required	1	0	1	
AI 於精準醫療應用實作	Practical Applications of AI in Precision Medicine	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			22	12	10	

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第 二 學 年

2nd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
放射物理學	The Physics of Radiology	必修 Required	4	2	2	
輻射安全學	Radiation Protection	必修 Required	2	2	0	
超音波技術學	Ultrasonography Technology	必修 Required	2	2	0	
放射生物學	Radiobiology	必修 Required	2	2	0	
切面解剖學	Sectional Anatomy	必修 Required	2	2	0	
生物統計應用軟體實務	Biostatistics Application Software Practice	必修 Required	2	2	0	
臨床見習	Clinical Observation	必修 Required	1	1	0	
放射化學	Radiochemistry	必修 Required	2	0	2	
醫學影像處理	Medical Image Processing	必修 Required	2	0	2	
放射腫瘤學	Radiation Oncology	必修 Required	2	0	2	
放射藥品學	Radiopharmaceuticals	必修 Required	2	0	2	
醫學影像病理學	Medical Imaging Pathology	必修 Required	2	0	2	
醫學影像處理實驗	Medical Image Processing Laboratory	必修 Required	1	0	1	
超音波技術學實驗	Ultrasonography Technology Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			27	13	14	

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Department of Medical Imaging and Radiological Sciences

第 三 學 年

3rd Academic Year

科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫學物理	Medical Physics	必修 Required	2	2	0	
核子醫學原理及儀器學	Principle and Instrumentation of Nuclear Medicine	必修 Required	2	2	0	
磁振原理及儀器學	Principle of MRI and Instruments	必修 Required	2	2	0	
放射治療儀器學	Instrumentation of Radiation Therapy	必修 Required	2	2	0	
電腦斷層掃描原理與技術學	Principle and Technology of Computed Tomography	必修 Required	2	2	0	
放射診斷攝影原理與設備學	Principle and Instrumentation of Radiography	必修 Required	2	2	0	
輻射度量	Radiation Measurement	必修 Required	1	1	0	
放射診斷攝影原理與設備學實驗	Principle and Instrumentation of Radiography Laboratory	必修 Required	1	1	0	
書報討論	Discussion in Literature	必修 Required	2	0	2	
核子醫學技術學	Nuclear Medicine Technology	必修 Required	2	0	2	
放射治療技術學	Radiation Therapy Technology	必修 Required	2	0	2	
磁振技術學	Technology of Magnetic Resonance Imaging	必修 Required	2	0	2	
放射線特殊攝影技術學	Special Radiographic Technology	必修 Required	2	0	2	
放射診斷攝影技術學	Technology of Radiography	必修 Required	2	0	2	
醫學影像臨床英文	Clinical English of Medical Imaging	必修 Required	1	0	1	
放射診斷攝影技術學實驗	Technology of Radiography Laboratory	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			28	14	14	

第 四 學 年 4thAcademic Year						
科目名稱 Course Name in Chinese	科目英文名稱 Course Name in English	必選 修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
醫學影像診斷技術學實習(含一般 X 光、牙科攝影、C T、MR I、U S、輻射安全)	Practicum in Diagnosis Medical Imaging Techniques (Including General X-ray, Dental Radiography, Computed Tomography, Magnetic Resonance Imaging, Ultrasound, Radiation Safety)	必修 Required	7	7	0	
放射治療技術學實習(含臨床放射治療、治療劑量與計畫、模具製作與模擬攝影)	Practicum in Radiation Therapy Techniques (Including Clinical Radiotherapy, Radiotherapy Dosage and Planning, Model Setting and Simulation Setting)	必修 Required	3	3	0	
核子醫學技術學實習(含核醫造影、R I A、核醫藥物、放射性同位素治療)	Practicum in Nuclear Medicine Techniques(Including Nuclear Medicine Imaging Echniques, Radioimmunoassay, Nuclear Medicine Pharmacology, Radioisotope Therapy)	必修 Required	3	3	0	
醫事放射倫理	Medical Radiologist Ethics	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			14	13	1	
最低畢業學分數 91 學分，必修 91 學分 Minimum graduation credits: 91 credits, compulsory 91 credits						
說明 Instructions：						
一、 達本系實習資格，即必要先修課程(以※標註)及格，且一至三年級前五學期未通過之必修科目少於(不含)六學分者，始安排第四學年臨床實習(醫學影像診斷技術學實習、放射治療技術學實習、核子醫學技術學實習)。 二、 本科目學分表均依照本校醫學影像暨放射科學系科目學分表制訂，如有變更，依照醫學影像暨放射科學系科目學分表為主。 1. To qualify for clinical internships, students must have passed all prerequisite courses (indicated with) and have fewer than six credits of failed required courses during the first five semesters of the first to third academic years. Only students who meet these criteria will be scheduled for clinical internships in the fourth academic year, including Practicum in Diagnosis Medical Imaging Techniques, Practicum in Radiation Therapy Techniques, and Practicum in Nuclear Medicine Techniques. 2. The curriculum credit structure for this program is based on the Course and Credit Table of the Department of Medical Imaging and Radiological Sciences. In the event of any changes, the most recent version of the Department’s Course and Credit Table shall prevail.						