

慈濟大學 115 學年度入學醫學影像暨放射科學系(大學部)開課科目及學分時數表

Tzu Chi University, Bachelor's Degree Program in Medical Imaging and Radiological Sciences (MIRS), 138 credits (總畢業學分數), Spring 2026 業經 115 年 5 月 15 日校課程委員會議通過

Tea Chi University Doctor's Degree Program in Medical Imaging and Radiological Sciences (MIRS) (總學分至少40分) ; Spring 2020.																Special Topic Course 主題課程 備註說明: 1.選課或主選課及相關課程 2.需配合「時空應用」課程 3.全選課組(兩檢課表) 4.通識課程 5.其他(自行註記,如免選課程)					
Subject Category 科目類別	Course Notes & Syllabus 課程備註說明	Course Title in Chinese 課程中文名稱	Course Title in English 課程英文名稱	Credit s 學分	Hour s 時數	Year1 115 (2026) 開課學年度		Year2 116 (2027) 開課學年度		Year3 117 (2028) 開課學年度		Year4 118 (2029) 開課學年度		Note 備註							
						1st Semester 上學期	2nd Semester 下學期	1st Semester 上學期	2nd Semester 下學期	1st Semester 上學期	2nd Semester 下學期	1st Semester 上學期	2nd Semester 下學期		1	2	3	4	5		
Basic General Courses (Required) 共同必修		中文閱讀與寫作	Chinese Reading and Writing	2	2		2							6 credit(s) 6學分							
		臺灣人文	Tzu-Chi Philosophy	2	2		2														
		**AI應用與程式設計	AI Applications and Programming	2	2		2														
		**AI應用與程式設計:網頁視覺程式設計(2)、APP程式設計入門(2)、邏輯與運算思維(2)、全學年開課,擇一課程修習。 AI Applications and Programming: Web Visual Programming (2), Introduction to APP Programming (2), Logic and Computational Thinking (2). Classes are open throughout the academic year, and you can choose a course to study.																			
General Elective Courses 通識選修課程		博雅通識選修課程	Liberal Arts Elective Courses	16	16	通識選修共分為七類課程,學生須至少修習四個不同課程,每類至少2學分。建議於一、二年級修完。 General Education elective courses are divided into seven categories. Students must complete courses from at least four different categories, earning a minimum of 2 credits in each. It is recommended that these requirements be completed during the first or second year.								16 credit(s) 16學分							
General Courses of the Colleges 院通識課程		院通識課程	General Courses of the Colleges	4	4	由各學院規劃。 Planned by each college.								4 credit(s) 4學分							
		小計	Total Credits	26	26																
Foreign Language 外語課程		*基礎英文	Fundamental English	2	2	基礎英文課程分為4級: Pre-A1、A1、A2、B1。學生依入學英文成績分級,須依其級別或高於該定級別修課。無入學英文成績者,由外語教學中心另安排測試分級。全學年開課,可於上或下學期修課。 Foundational English courses are offered at four levels: Pre-A1, A1, A2, and B1. Placement is based on students' entry-level English scores, or a test arranged by the Foreign Language Education Center if no score is provided. Courses are available in both fall and spring semesters.								2 credit(s) 2學分							
		外語選修課程	Foreign Language Courses	2	2	外語選修課程包括英語檢定課程(學術或職場英語,如多益、托福、雅思等)、第二外語(日、韓、法、德、西、印、泰、越)及粵語等,擇一修習,建議於一、二年級完成。若選修所屬國家的官方語言課程,不得列入外語課程學分統計。 Foreign language elective courses include English certification courses (academic or workplace English, e.g. TOEIC, TOEFL, IELTS), second foreign languages (Japanese, Korean, French, German, Spanish, Indonesian, Thai, Vietnamese), and Mandarin Chinese. Students choose one to take, preferably in their first or second year. Courses in a student's own country's official language are not eligible for foreign language credit recognition.															
Physical Education 體育		運動與健康	Physical Activity & Health	2	2		2							3 credit(s) 3學分							
		*活動性體育課程與興趣選項	Interest Options for Active Physical Education Courses	1	1	*活動性體育課程與興趣選項由體育教學中心所開設選修課程中任選一門。 *The interest option for active physical education courses is to choose any one of the elective courses offered by the Physical Education Center.															
		小計	Total Credits	7	7																
Professional Basic Courses (Required) 專業基礎 (必修)		普通物理學	General Physics	2	2	2								37 credit(s) 37學分							
		普通物理學實驗	General Physics Laboratory	1	2	1															
		普通化學	General Chemistry	2	2	2															
		普通化學實驗	General Chemistry Laboratory	1	2	1															
		普通生物	General Biology	2	2	2															
		普通生物實驗	General Biology Laboratory	1	2	1															
		微積分(一)	Calculus I	2	2	2															
		微積分(二)	Calculus II	2	2		2														
		應用數學	Applied Mathematics	3	3			3													
		醫學影像概論	Medical Imaging Processing: An Overview	2	2			2													
		應用電子電路學	Medical Electronics and Circuits	2	2		2														
		放射物理學(一)	Physics of Radiology I	2	2		2														
		放射物理學(二)	Physics of Radiology II	2	2			2													
		放射化學	Radiochemistry	2	2				2												
		放射生物學	Radiobiology	2	2				2												
		解剖學	Anatomy	4	4			4													
		生理學	Physiology	3	3				3												
		病理學	Pathology	2	2					2											
		小計	Total Credits	37	40	11	6	13	5	2		0	0		0						
	Professional Core Courses for MIRS (Required) 專業核心 (必修)		放射診斷器材學	Instrumentation for Diagnostic Radiography	3	3			3							56 credit(s) 56學分					
		放射切面解剖學	Sectional Anatomy	1	1				1												
		放射治療物理學	Physics of Radiation Therapy	2	2				2												
		放射診斷技術學(一)	Radiological Technology I	2	2				2												
		輻射安全學	Radiation Safety	2	2				2												
		核子醫學藥物學	Radiopharmaceuticals	2	2					2											
		核子醫學器材學	Instrumentation for Nuclear Medicine	2	2					2											
		超音波學	Medical Ultrasound	2	2					2											
		磁振造影學	Magnetic Resonance Imaging	2	2					2											
		放射診斷技術學(二)	Radiological Technology II	2	2					2											
		電腦斷層影像學	Computed tomography images	2	2					2											
		輻射度量	Radiation Measurement	1	1					1											
		醫學影像診斷學	Clinical Medical Images	2	2						2										
		醫學影像品質管制	Image Evaluation and Quality Management	2	2						2										
		醫學影像處理	Medical image processing	2	2						2										
		醫學影像儲存與傳輸系統	Picture Archiving and Communication System	1	1						1										
		特殊無影技術學	Special Radiographic Technology	2	2						2										
		放射治療技術學	Radiation Therapy Technology	3	3						3										
		放射治療器材學	Instrumentation for Radiation Therapy	2	2						2										
		核子醫學技術學	Nuclear Medicine Technology	3	3						3										
	放射治療品質管制	Quality Management in Radiation Therapy	1	1						1											
	放射診斷技術實習	Clinical Practice in Radiography	6	20							6										
	放射治療技術實習	Clinical Practice in Nuclear Medicine	4	10							4										
	核子醫學技術實習	Clinical Practice in Radiation Therapy	4	10							4										
	書報討論	Seminar	1	2								1									
	小計	Total Credits	56	83	0	0	3	7	13	18	14	1									
Professional Elective Courses for MIRS 專業選修		放射醫學概論	Introduction to Radiology	2	2	2								12 credit(s) 12學分							
		醫學影像技術	Capitol for Radiobiological Technology	1	2		2														
		放射診斷與介入放射學實習課程	Intensive application of non-radiation respiratory and post-treatment cases	2	2		2														
		解剖學實驗	Anatomy Laboratory	1	2			1													
		放射醫學臨床實習	Learning by serving in radiological departments	2	2			2													
		放射師之醫學倫理	Understanding the importance of medical ethics	2	2			2													
		專題研究(一)	Study of Special Topics (I)	1	1			1													
		生理學實驗	Physiology Experiment	1	2				1												
		放射診斷技術學實驗(一)	Radiological Technology Practice I	2	4				2												
		輻射安全學實驗	Radiation Safety Laboratory	1	2				1												
		電腦斷層與牙科放射技術學	Computed Tomography and Dental radiography	2	2				2												
		專題研究(二)	Study of Special Topics (II)	1	1				1												
		磁振造影之臨床應用與研究	Advanced MRI: Clinical Application and Research	2	4					2											
		放射診斷技術學實驗(二)	Radiological Technology Practice II	2	4					2											
		放射治療技術學實驗(三)	Simulation of Treatment Planning System	1	1					1											
		專題研究(三)	Study of Special Topics (III)	1	1					1											
		超音波學實驗	Ultrasonography Practice	2	4						2										
		專題研究(四)	Study of Special Topics (IV)	1	1						1										
		進階放射診斷的物理暨器材學	Advanced physics and instruments for diagnostic radiography	2	2								2								
		進階核子醫學影像的物理暨器材學	Advanced Nuclear Medicine Imaging Physics and Instrumentation	2	2										2						
	進階放射治療的物理暨器材學	Advanced Radiotherapy Physics and Instrumentation	2	2										2							
	整合醫學與臨床應用	Integrative medicine and clinical application	2	2										2							
	放射醫學實習	Radiological Medicine	1	1										1							
	專業選修規劃小計	Total Credits	37	46	2	4	6	7	6	3	0	9									
Total Credits 學分總計		醫政系	MIRS	93		專業基礎(必修37)+專業核心(必修56)															
		通識	General	7		通識課程26學分(必修6+選修10+院通識必修4)															
		專業選修最低學分數	Minimum Total Credits for Elective Courses	12		外語課程4學分(必修2+選修2)+體育課程3學分(必修2+選修1)															
		自由選修	Free electives																		
		專業最低學分數	Credit Requirements for Graduation	138																	
Remark 備註	1.The graduation threshold for students of this Department is as follows:Graduation threshold of professional ability: Obtain a Radiation Safety Certificate or CPR certificate while studying. 2.Electives are courses offered in the current semester. 1.本系學生畢業門檻如下:專業能力畢業門檻在學期間取得輻射安全證書或CPR證書。 2.專業選修課程依當學期實際開課課程為主。																				