

中臺科技大學大學部四年制日間部醫學影像暨放射科學系113學年度入學課程標準表

Central Taiwan University of Science and Technology Undergraduate 4-Year Daytime Program Department of Medical Imaging and Radiological Sciences Curriculum Standards for the 113th Academic Year

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學年 Academic Year	科目 Course	學分數 Credits	時數 Teaching hours	上學期 First Semester		下學期 Second Semester		備註 Remarks
				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
核心素養(8學分) Core Competencies (8 Credits)								
第一學年1st Academic Year	中文閱讀與表達 Chinese Reading and Expressing	2	2	2				
	大一英文(一) Freshman English (I)	2	2	2				
	資訊科技與應用 Information Technology and Application	2	2	2				電腦課程
	大一英文(二) Freshman English (II)	2	2			2		
體育(2學分) Physical Education (2 Credits)								
第一學年1st Academic Year	體育(一) Physical Education (I)	1	2	2				
	體育(二) Physical Education (II)	1	2			2		
第二學年2nd Academic Year	體育(三) Physical Education (III)	0	2	2				
領域涵養(16學分) Domain-Specific Learning (16 Credits)								
第一學年1st Academic Year	領域涵養 Domain-specific Learning	8	8			8		人文、自然、社會、博學至少各選修一門
第二學年2nd Academic Year	領域涵養 Domain-specific Learning	8	8	4		4		
跨域學習(4學分) Interdisciplinary Learning (4 Credits)								
第二學年2nd Academic Year	跨域學習 Interdisciplinary Learning	4	4	2		2		

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專業必修(92學分) Professional Required Courses (92 Credits)								
核心基礎(21學分) Core Foundations (21 Credits)								
第一學年1st Academic Year	微積分 Calculus	2	2	2				
	普通物理學 Physics	2	2	2				
	普通化學 General Chemistry	2	2	2				
	原子物理 Atomic Physics	2	2	2				
	解剖學暨實驗(一) Anatomy and Laboratory (I)	2	3	2	1			
	解剖學暨實驗(二) Anatomy and Laboratory (II)	2	3			2	1	
	醫學影像原理 Principles of Medical Imaging	2	2			2		
第二學年2nd Academic Year	應用數學(一) Applied Mathematics (I)	2	2	2				
	生理學暨實驗(一) Physiology and Laboratory (I)	2	3	2	1			
	生理學暨實驗(二) Physiology and Laboratory (II)	2	3			2	1	
第三學年3th Academic Year	病理學暨實驗 Pathology and Laboratory	1	2	1	1			
核心專業(71學分) Core Professional Courses (71 Credits)								

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				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
第一學年1st Academic Year	醫學英文 Medical English	2	2			2		
	放射化學 Radiochemistry	2	2			2		
	放射物理學(一) Radiation Physics (I)	2	2			2		
第二學年2nd Academic Year	放射物理學(二) Radiation Physics (II)	2	2	2				
	放射診斷技術學(一) Diagnostic Imaging (I)	2	2	2				
	超音波原理與儀器學 Principle of Sonography and Instruments	2	2	2				
	放射切面解剖學 Radiographic Cross Sectional Anatomy	2	2	2				
	輻射安全學 Radiation Safety	2	2	2				
	放射診斷技術學實驗(一) Diagnostic Imaging Laboratory (I)	2	3		3			
	放射診斷技術學實驗(二) Diagnostic Imaging Laboratory (II)	2	3				3	
	放射診斷技術學(二) Diagnostic Imaging (II)	2	2			2		
	放射治療物理學 Radiation Therapy Physics	2	2			2		
	放射生物學 Radiation Biology	2	2			2		
核醫藥物學 Radiopharmaceuticals	2	2			2			

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				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
	輻防法規實務 Radiation Protection Regulations Practice	1	1			1		
第三學年3th Academic Year	核子醫學原理及儀器學 Principle and Instrument of Nuclear Medicine	2	2	2				
	磁振原理及儀器學 Principle of MRI and Instruments	2	2	2				
	放射治療儀器學 Radiation Therapy Modalities	2	2	2				
	放射治療技術學(一) Radiation Therapy Technology (I)	2	2	2				
	放射診斷儀器學 Diagnostic Modalities	2	2	2				
	電腦斷層技術學 CT and Technology	2	2	2				
	醫學報告與傳達 Literature Review and Presentation	1	2	2				學術倫理課程/ 跨域學習
	輻射度量暨實驗 Radiation Measurement and Laboratory	1	2	1	1			
	放射治療技術學(二) Radiation Therapy Technology (II)	2	2			2		
	醫學影像處理暨儲傳系統 Medical Imaging Processing and Archiving System	2	2			2		
	核子醫學技術學 Nuclear Medicine Technology	2	2			2		
	放射治療計畫 Treatment Planning of Radiation Therapy	2	2			2		
特殊攝影技術學暨實驗 Special Radiography and Laboratory	2	3			2	1		

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				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
	臨床醫學英文 Medical English for Clinical Application	1	1			1		
第四學年4th Academic Year	放射診斷技術實習 Clinical Placement-Diagnostic Imaging	6	12		12			校外實習，實習28週
	放射治療技術實習 Clinical Placement-Radiotherapy	4	8		8			
	核子醫學技術實習 Clinical Placement-Nuclear Medicine Technology	4	8		8			
	放射證照實務 License Review of Radiological	1	2			2		
	放射治療證照實務 License Review of Radiation Therapy Modalities	1	2			2		
	核子醫學證照實務 License Review of Nuclear Medicine	1	2			2		
專業選修(30學分) Professional Electives Courses (30 Credits)								
第一學年1st Academic Year	醫學影像暨放射科學概論 Introduction of Medical Imaging and Radiological Sciences	2	2	2				定錨課程/跨域學習
	生物統計學 Biostatistics	2	2			2		
第二學年2nd Academic Year	應用數學(二) Applied Mathematics (II)	2	2			2		
	超音波技術學暨實驗 Sonography and Laboratory	2	3			1	2	內含「服務學習」
	放射診斷見習 Diagnostic Imaging Practice	1	2				2	校外見習2-3週
	專題研究(一) Radiological Sciences Research (I)	1	2				2	

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				癌生物學 Cancer Biology	2	2	2	
心臟超音波技術學暨實驗 Echocardiography and Laboratory	2	3	1	2				
乳房攝影暨骨質密度測量學實驗 Mammography and Bone Densitometry Laboratory	1	2	1	1				
專題研究(二) Radiological Sciences Research (II)	1	2		2				
人工智慧於放射醫學應用 Application of Artificial Intelligence on Radiological Sciences (AI)	2	2			2		跨域學習	
醫學影像診斷學 Medical Imaging Diagnosis	2	2			2			
心導管攝影技術學暨實驗 Cardiac Catherization Angiography and Laboratory	1	2			1	1		
病患安全與醫學倫理 Patient Safety and Medical Ethics	1	1			1		職業倫理	
磁共振造影技術學暨實驗 MRI and Laboratory	2	3			2	1		
牙科攝影技術學暨實驗 Dental Radiography and Laboratory	1	2			1	1		
放射治療技術學實驗 Radiation Therapy Laboratory	1	2				2		
基礎醫學證照實務 License Review of Basic Medical	1	2			2			
放射物理證照實務 License Review of Radiation physics	1	2			2			
放射器材證照實務 License Review of Radiological Instrument	1	2			2			

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				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
	放射診斷證照實務 License Review of Diagnostic Imaging	1	2			2		
第一學年小計(1)1st Academic Year Credits Subtotal(1)		42	46	20	1	24	1	
第二學年小計(2)2nd Academic Year Credits Subtotal(2)		47	56	22	4	20	10	
第三學年小計(3)3th Academic Year Credits Subtotal(3)		42	53	20	7	20	6	
第四學年小計(4)4th Academic Year Credits Subtotal(4)		21	42	0	28	14	0	
合計Total=(1)+(2)+(3)+(4)		152	197	62	40	78	17	

畢業規定及其他相關說明：

Graduation Requirements and Other Relevant Instructions

一	<p>最低畢業學分為128學分，必修122學分【含核心素養8學分、體育2學分、領域涵養16學分（人文、自然、社會、博學領域至少需選修1門課程）、跨域學習4學分、專業必修92學分】，選修至少6學分。</p> <p>The minimum graduation requirement is 128 credits, including mandatory 122 credits [comprising 8 credits for core competencies, 2 credits for physical education, 16credits for domain enrichment (including humanities, natural sciences, social sciences, and cultivation of broad knowledge -with at least one elective course from each category), 4 credits for interdisciplinary learning, and mandatory professional 92 credits]. Elective credits must be at least68 credits</p>
二	<p>畢業前需取得本校「資訊能力」畢業資格審定暨實施要點所列之資訊相關證照，始得畢業。</p> <p>Before graduation, students must obtain the qualifications as stipulated in the "Regulations for the Assessment and Implementation of Information Literacy Graduation Qualifications" of our university, which includes obtaining the information-related certifications listed therein, in order to graduate</p>

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				三	有關英文能力畢業門檻之相關規定，依照「中臺科技大學大學部英（日）文畢業門檻實施要點」之規定辦理。 The regulations regarding the graduation requirements for English proficiency are implemented in accordance with the "Implementation Guidelines for the English (Japanese) Graduation Thresholds for Undergraduate Programs at CTUST."			
四	有關學術倫理課程規定： (1)修習「醫學報告與傳達」課程之學生，需透過「臺灣學術倫理教育資源中心」網路教學平臺研習至少6小時課程並通過總測驗，於該網站下載修課證明後，提交任課老師列入成績考核。 (2)並於該課程備註欄註明-學術倫理課程。 Regarding the academic ethics course regulations: (1) Students taking the 「Medical Reporting and Communication」 course are required to study at least 6 hours of courses and pass the final test through the 「Taiwan Academic Ethics Education Resource Center」 online teaching platform. After downloading the course completion certificate from the website, they must submit it to the instructor for inclusion in their grade assessment. (2) It should be noted in the remarks column of the course as 「Academic Ethics Course.」							
五	畢業前須修習健康科學院院定共同課程: 生物統計學「Biostatistics」2學分，需有修讀紀錄，始得畢業。 Prior to graduation, students must complete the core course 「Biostatistics」 designated by the College of Health Science, which is worth 2 credits. A transcript of this course is required for graduation.							
六	『在本校就學期間必須取得心肺復甦術（CPR）畢業門檻之相關規定，依照「中臺科技大學健康科學院心肺復甦術（CPR）證照畢業門檻實施要點」之規定辦理』。 During the period of study, it is required to fulfill the graduation threshold for CPR in accordance with the Implementation Guidelines for Graduation Threshold of CPR Certification at the College of Health Science, Central Taiwan University of Science and Technology.							

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七	實習分發資格：分發前需已加選下列5門專業選修課程： (1)超音波技術學暨實驗、(2)心臟超音波技術學暨實驗、(3)牙科攝影技術學暨實驗、(4)磁共振造影技術學暨實驗、(5)病患安全與醫學倫理。 Before assignment, students must have already enrolled in the following five professional elective courses: (1)Sonography and Laboratory; (2)Echocardiography and Laboratory; (3)Dental Radiography and Laboratory; (4)MRI and Laboratory; (5)Patient Safety and Medical Ethics.							
八	定錨課程：畢業前需選修醫學影像暨放射科學概論（2學分/2小時）之課程。 Anchor Course: Before graduation, students must take the course 「Introduction to Department of Medical Imaging and Radiological Sciences」 (2 credits/2 hours).							
九	銜接課程：大一新生於入學第一學期需修習銜接課程-基礎數學(1學分/18學時) Freshmen in their first semester are required to take the "Transition Course". (1 credit for 18 instructional hours)							
十	外籍學生於畢業前需修習「進階華語(一)」及「進階華語(二)」兩門課程。 Foreign students need to take two courses, "Advanced Chinese (I)" and "Advanced Chinese (II)" before graduation							
十一	學生於前2年需修習「班級永續經營課程(一)、(二)、(三)、(四)」，「班級永續經營課程(一)、(二)」成績及格，可認列為「跨域學習」學分；「班級永續經營課程(三)、(四)」成績及格，可認列為「一般選修」學分。依規定學生需取得「班級永續經營課程(一)、(二)」之學分或取得「愛校服務認證」始得畢業。 Students need to take "Class Sustainable Management Course (I), (II), (III), and (IV)" in the first 2 years. Passing the "Class Sustainable Management Course (I), and (II)" will be recognized as "Interdisciplinary Learning" credits; passing the "Class Sustainable Management Course (III), and (IV)" can be recognized as "General Elective" credits. According to regulations, students must obtain credits for Class Sustainable Management Course (I), and (II)" or obtain the "Love School Service Certification" before they can graduate.							