

長庚大學 醫學影像暨放射科學系碩士班 必選修科目表 (113學年度入學學生適用)

Chang Gung University, Medical Imaging and Radiological Sciences

Curriculum for MS Program (2024~2025)

2024.04.11 revised

必修 Required/ Elective	科目名稱 Course Title	學分 Credit	開課年 級 year	上學期 Fall	下學期 Spring	備註 Note
必修 Required Courses	書報討論一 Seminar (1)	1	1	1		
	書報討論二 Seminar (2)	1	1		1	
	放射與核物理 Radiation and Nuclear Physics	3	1	3		
	影像解剖及生理學 Radiological Anatomy and Physiology	3	1		3	
	書報討論三 Seminar (3)	1	2	1		
	書報討論四 Seminar (4)	1	2		1	
選修 Elective Courses	診斷影像物理實驗 Physics Measurements in Diagnostic Imaging Lab	2	1		2	偶數學年度開課 Offered bi-annually
	放射治療物理實驗 Lab-Radiotherapy Physics	1	1		1	奇數學年度開課 Offered bi-annually
	磁共振造影 Magnetic Resonance Imaging: Basic Principles and Applications	3	1	3		
	醫學輻射劑量學 Medical Radiation Dosimetry	3	1		3	
	醫學保健物理 Medical Health Physics	3	1	3		
	放射治療物理 Physics of Radiotherapy	3	1	3		
	輻射生物學 Radiobiology	3	1		3	
	放射診斷物理 Diagnostic Imaging Physics	3	1		3	偶數學年度開課 Offered bi-annually
	核子醫學物理暨藥物學 Physics and Pharmaceuticals in Nuclear Medicine	3	1		3	偶數學年度開課 Offered bi-annually
	醫學影像處理 Medical Imaging Processing	3	1	3		偶數學年度開課 Offered bi-annually
	功能性磁共振造影 Functional MRI	2	1	2		
	生物統計學 Biostatistics	3	1		3	
	醫學影像處理特論 Special Topics in Medical Image Processing	3	1	3		奇數學年度開課 Offered bi-annually
	輻射度量 Radiation Detection and Measurement	3	1	3		偶數學年度開課 Offered bi-annually
	分離技術 Isolation Techniques	2	1	2		天藥所開課
	分離技術實驗 Isolation Techniques Laboratory	1	1	1		天藥所開課
	超音波影像特論 Special Topics in Ultrasound Imaging	3	1		3	
	正子製藥方法與相關法規 PET drug preparation and its related regulation	3	1		3	奇數學年度開課 Offered bi-annually
	臨床醫學物理實習(影像物理) Clinical Practicum of Medical Physics-Diagnostic Imaging	4	2	4		暑假上課 Summer school
	臨床醫學物理實習(治療物理) Clinical Practicum of Medical Physics-Radiation Therapy	4	2	4		暑假上課 Summer school
	進階放射治療物理 Advanced Radiotherapy Physics	3	2		3	偶數學年度開課 Offered bi-annually
	分子影像學 Molecular Imaging	3	2	3		奇數學年度開課 Offered bi-annually
	粒子放射治療 Particle Radiotherapy	3	2		3	奇數學年度開課 Offered bi-annually
	放射藥物開發及藥理神經學應用 Radiotracer Development for Pharmacology and Neurology Studies	3	2	3		奇數學年度開課 Offered bi-annually
	醫學影像系統 Biomedical Imaging System	3	2	3		電機系博士班開課

	科學倫理與論文寫作 <b>Scientific Ethics and Writing</b>	2	2		2	
	海外專題研究 <b>Overseas Research Project</b>	2	1		2	
屆別:第十九屆 1. 畢業學分:31 學分。 <b>Core total: 31 Credits</b> (1) 必修 10 學分。 <b>Required Courses : 10Credits</b> (2) 選修 15 學分。 <b>Elective Courses: 15 Credits。</b> (3) 論文 6 學分(通過學位考試並繳交通過審核論文後給予)。 <b>Master Thesis with 6 credits will be awarded after degree examination.</b> 2. 須達英文畢業門檻方可畢業。 <b>Students must meet the basic English Proficiency requirement to be eligible to graduate.</b> 3. 每學期限修一門書報討論。 <b>No more than one seminar course can be taken in a semester.</b> 4. 其他: <b>Others:</b> A. 醫學院各所開設之「生物統計學」及「高等生物統計學」可擇一選修，至多承認 3 學分。 <b>Biostatistics or Advanced Biostatistics offered by all departments in medical school will be acknowledged at most 3 credits.</b> B. 碩士生選修外所課程，經指導教授同意後均可承認學分。 <b>Courses in other departments with supervisor's agreement will be acknowledged.</b>						

所長:

課程召集人:

經辦: