

Course List for Master of Science Degree Program in Innovation for Smart Medicine, Chang Gung University (for students admitted in Fall, 2025)								
module	(R/E)	Course Name	Year	Credit	1st	2nd	Instructor	Remarks
Required	(R)	Smart Medical Material Software Innovation	1	3	3		陳嶽鵬	
	(R)	Smart Healthcare Topic: Field Applications	1	2	2		裴育晟	
	(R)	Special Topics on the Progress of Innovative Healthcare Advancements	1	2		2	郭昶甫	
Innovative design & Management	(E)	Medical Design	1	3	3		黃建嘉	
	(E)	Regulations and Risk Management for Smart Medical Devices	1	3	3		許建隆	
	(E)	Research Methods (1)	1	3	3		蕭文龍	
	(E)	Research Seminar I	1	2	2		鄧景宜	
	(E)	Topics in Design Management	1	3	3		邱文科	
	(E)	Innovative Product Design and Development	1	3		3	曾俊儒	
	(E)	Policies and Management of Information Security	1	3		3	許建隆	
	(E)	Research Methods(2)	1	3		3	許光宏	
	(E)	Research Seminar II	1	2		2	鄧景宜	
	(E)	Mixed method: Research design and application	1	3		3	蕭文龍	
	(E)	Decision Science and Applications	1	3		3	陳亭羽	

	(E)	Creative Thinking and Method	1	3	3		蔡采璇	
	(E)	Scientific Research and Paper Publication	2	2	2		鄧景宜	
	(E)	Advanced Topics in Management I	2	3	3		蕭文龍	
	(E)	Topics in Statistics	2	3	3		裘厥庸	
	(E)	Production and Operations Management	2	3	3		古思明	
	(E)	Bioinformatics analysis	1	2	2		鄧致剛	
	(E)	Practical Bioinformatics	1	1	1		鄧致剛	
	(E)	Business strategy for the biotech and health industries	2	2	2		廖珮茹	Offered by Master Program of Health Care Industry
	(E)	Medical Device Productization Strategy	1	3		3	黃建嘉	
	(E)	Biomedical Startup Industry Lecture	2	2		2	郭昶甫	
	(E)	Advanced Topics in Management II	2	3		3	蕭文龍	
	(E)	International Scholarly Communication	2	2		2	鄧景宜	
	(E)	Innovation Design Management and Practice	1	3		3	邱文科	
	(E)	Financial Management of Biotech and Health Industry	2	2		2	陳佰弦	Offered by Master Program of Health Care Industry
Healthcare management	(E)	Occupational Medicine and Current Researches	1	3	3		曹又中	
	(E)	Healthcare and Society	1	3	3		盧瑞芬	

	(E)	The Application of Interdisciplinary CollaborateInnovation Design for Medical Industries	1	3	3		梁又照	
	(E)	Health Policy and Politics	1	2	2		林欣柔	Offered by Health Care Management
	(E)	Health Economics	1	3		3	盧瑞芬	Offered by Health Care Management
	(E)	The Application of Innovation Design Thinking to Medical Industry	1	3		3	梁又照	
	(E)	Design Thinking in Health Care	1	2		2	葉婷婷	
	(E)	Comprehensive Geriatric Care	1	2		2	林佩欣	Offered by Master Program of Health Care Industry
	(E)	Activity Analysis and Applications of Assistive Technology	1	2		2	黃湘涵	Offered by Master Program of Health Care Industry
	(E)	Topics in Health Economics	2	3	3		盧瑞芬	
	(E)	Workshop of Occupational and Environmental Medicine	1	3		3	曹又中	
	(E)	Health and Information Systems Theories	2	3		3	許建隆	
	(E)	Topics in Healthcare Management	2	3		3	邱月暇	
	(E)	Design Strategy and Innovation for Assistive Technology Products	2	3		3	蔡采璇	
	(E)	Special Topics in Long-term Care Management	1	2		2	王惠玄	Offered by Health Care Management
Intelligent Computing	(E)	Image Processing	1	3	3		萬書言	Offered by Master of Information Management
	(E)	Introduction to Deep Learning	1	2		2	高煥堂	
	(E)	Machine Learning and Its Medical Applications	1	3		3	陳嶽鵬	

	(E)	Internet of Things	1	3		3	吳世琳	Offered by Master of Computer Science
	(E)	Artificial Intelligence in Natural Language Processing and Applications	2	3		3	陳嶽鵬	
	(E)	The Classification Topics in Artificial Intelligence	2	3		3	萬書言	
	(E)	Application Project for Deep Learning	2	2		2	林詩偉	
	(E)	Seminar on Intelligent Imaging Systems in Healthcare: Applications and Clinical Perspectives	1	3	3		范佐搖	
Remarks	1.Minimum requirement for graduation: 30credits (1) Credits from required courses: 7credits (2) Credits from elective courses: 17credits from at least three elective modules, at least 2 credits from each of the chosen elective modules (3) Six thesis/technical report credits are awarded upon completion of oral defence 2. Students are required to pass the English certification standard to obtain graduation qualifications. 3. At most 10 graduate level credits taken from other CGU departments/programs not listed here can be considered towards graduation credits, unless with written approval from the program director.							