

Course List for MS Degree Program in Information Management, Chang Gung University
(For students entering in Autumn 2023 and Spring 2024)

R/E	Courses	Credits	1st year		2nd year	
			Fall	Spring	Fall	Spring
Required Courses	Seminar on Information Technology and Applications	2	2			
	Professional Ethics	2		2		
	Seminar on Information Management	2		2		
	Academic Writing	3		3		
	Seminar	1			1	
Elective (Foundamental Courses)	Big Data Processing and Analytical Techniques	3	3			
	Data Mining	3	3			
	Applied Multivariate Analysis	3	3			
	Combinatorial Optimization	3	3			
	Introduction to Deep Learning	2	2			
	Research Methods (I)	3	3			
	Research Methods (II)	3		3		
	Independent Study	6		2	2	2
	Web Mining and Text Mining	3		3		
	The Classification Topics in Artificial Intelligence	3		3		
	Business English Communication	2		2		
	Application Project for Deep Learning	2		2		
	Social Network Analysis	3			3	
	Special Topic in Decision Analysis				3	
	Structural Equation Modeling SEM				3	
Elective	Digital Marketing	3	3			
	Healthcare Management Information System	3		3		
	E-Business	3		3		
	Service Science and Management	3		3		
	Mobile Commerce	3		3		
	Knowledge Management	3		3		
	Digital Transformation:a global perspective	1		1		
	User Behavior and Management	3			3	
	Big Data Application and Electronic Commerce	3			3	
	Health Information Management	3			3	
	Advanced Information Security	3	3			
	Wireless Communications	3	3			
	Medical Informatics	3	3			
	Image Processing	3	3			
	Medical Imaging	3		3		
	Special Topics in Information Security	3		3		
	Information systems practice in bank finance	0.5	0.5			
	System analysis on bank finance information systems	0.5	0.5			
	Healthcare information exchange practice	0.5	0.5			
	System analysis on healthcare information systems	0.5	0.5			
Remark	<p>1. Total graduation credit hours required: 42 (including 6 credit hours dedicated to the thesis).</p> <p>2. Credits for required courses: 10 credits (excluding the thesis). Students can enroll in relevant courses offered in English from other departements, subject to aproval from the curriculum committee.</p> <p>3. Credits for elective courses: 26, including a minimum of 6 credits from fundamental elective courses, excluding Business English Communication, which does not count towards the the total graduation credit hours. Students may take 9 up to elective course credits from other departmtent, subject to approval from the advisor. Additionally, the advisor will assign 15 elective course credits.</p> <p>4. Prerequisite Courses: 2 out of the following 6 courses: Statistics, Management Information Systems, Systems Analysis and Design, Computer Programming, Data Structures, and Computer Networks. Prerequisite courses can be exempted if they have been completed at the college level. Alternatively, students must take corresponding courses, either at the undergraduate or graduate level, before applying for the thesis oral defense. Courses taken as prerequisites will not be included in the count of graduation credit hours.</p>					