

Ming Chuan University Computer Science and Information Engineering-Graduate Course Outline for all students entering in 2016

Course		Credits	Hours	1 st year				2 nd year				Course Code	Note
				Fall		Spring		Fall		Spring			
				class	lab	class	lab	class	lab	class	lab		
Required Courses	Applied English Communication I-II	4	4	2		2							1-semester courses
	Thesis Seminar 1-4	8	8	2		2		2		2			1-semester courses
	The Design and Analysis of Algorithms	3	3	3									
	Software Engineering	3	3			3							
	Subtotal	18	18	7		7		2		2			
Elective Courses	Networking and Multimedia	Advanced Computer Networks	3	3	3								Based course
		Digital Image Processing	3	3	3								Based course
		Internet Technology	3	3			3						
		Network Security	3	3			3						
		Multimedia Security	3	3			3						
		Interactive Media Techniques	3	3					3				
		Topics on Image Processing	3	3					3				
	Computational Intelligent	Artificial Intelligence	3	3	3								
		Data Warehousing	3	3	3								
		Data Mining	3	3			3						
		Advanced Data Mining	3	3					3				
		Expert systems(E)	3	3			3						
		Intelligent System Design	3	3					3				
	Total Required Course Credits	Thesis	6										
Professional Required Courses		18	18	7		7		2		2			
The Minimum Credits required for Elective Professional Courses		18											
Total		36											

Notes:

- In accordance with the MOE standard, MCU graduate students are required to reach the CERF B2 English Proficiency Level before the start of their second semester in second year. (According to the school's regulations, students need to achieve 650 or higher on their TOEIC test, or to pass the oral exam on GEPT Intermediate Test, etc.) Any student who does not reach the standard is required to either complete one non-credit Practical English for Professional course or else provide evidence of having reached the CEFR B2 standard prior to graduation.
- Students can choose other courses of Information College. Non-information courses which students choose are not admitted by our department and cannot be taken as graduation credits if not agreed by the chairman of department.
- The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2016-7 academic year.