Ming Chuan University Computer Science and Information Engineering-Graduate Course Outline for all students entering in 2019

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Course		Credits	Hours	1st year Fall class	1st year Fall lab	1st year Spring class	1st year Spring lab	2nd year Fall class	2nd year Fall lab	2nd year Spring class	2nd year Spring lab	Course Code	Note
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 Computational Intelligent	Advanced Computer Networks	3	3	3									
	Digital Image Processing	3	3	3									
	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					
	Video Processing	3	3			3							
	Artificial Intelligence	3	3	3									
	Advanced Big Data Analysis	3	3			3							
	Data Mining	3	3			3							
	Advanced Data Mining	3	3					3					
	Fuzzy Systems	3	3			3							
	Intelligent System Design	3	3					3					
	Advanced Network Intrusion Detection	3	3					3					
	Machine Learning and Data Mining	3	3			3							
Total Required Course Credits	Thesis	6											At least three based course from each of the two programs.
	Professional Required Courses	18	18	7		7		2		2			
	The Minimum Credits required for Elective Professional Courses	18											
	Total	36											

Notes:

1. The students need to satisfactorily complete Graduate degree examination rules of the examination and pass the core competencies of their department to be eligible for graduation.

2. The students must fulfill 36 credits by graduation, including 18 required credits

3. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2017-8 academic year.

4. Students who choose to take other courses of other departments must be approved by the chairman in advance. Then, the credits of the approved course can be counted as elective credits toward total graduation credits.

5. According to general provisions for study of Ming Chuan University, graduate school students should meet the English proficiency requirement and comply with its enforcement rules in order to graduate.

6. Students should meet the requirements of Ming Chuan University Guidelines for Taking Academic Ethics Education Course prior applying for the Oral Examination for Thesis Plan.

Ming Chuan University Computer Science and Information Engineering-Graduate Course Outline for all students entering in 2017

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