Ming Chuan University Department of Electronic Engineering Master Program
Course Outline for all students entering in 2014

Course		Credits	Hours	1st year				2nd year				Note
				Fall		Spring		Fall		Spring		
				class	lab	class	lab	class	lab	class	lab	
Core Required Courses	Applied English I	2	2	2								2
	Applied English II	2	2			2						
	Subtotal	4	4									
Professional Required Courses	Thesis Seminar I	2	2	2								
	Thesis Seminar II	2	2			2						
	Thesis Seminar III	2	2					2				
	Thesis Seminar IV	2	2							2		
	Subtotal	8	8									

Elective Courses		Credits	Hours	1st year				2nd year				Note
				Fall		Spring		Fall		Spring		
				class	lab	class	lab	class	lab	class	lab	
Electronic Device Program	Integrated Circuit Devices	3	3	3								1
	Introduction to Optoelectronic device	3	3	3								
	Modern Optics	3	3	3								
	Antenna Engineering	3	3	3								
	Microwave Engineering I	3	3	3								
	Optical Integrated Circuits	3	3	3								
	Semiconductor Reliability Engineering	3	3	3								
	Microwave Engineering II	3	3			3						
	Antenna Project	3	3			3						
	Semiconductor Measurement Technology	3	3			3						
	Advanced Optical Communication	3	3			3						
	Semiconductor Nano Devices	3	3			3						
	Solar Cells	3	3			3						
IC Chip and System Program	Digital Image Processing	3	3	3								
	VLSI Design	3	3	3								
	Digital Video Techniques	3	3	3								
	Digital Signal Processing	3	3	3								
	Data Compression	3	3	3								
	Intelligent Systems	3	3	3								
	Advanced Applied Mathematics	3	3	3								
	Random Processes	3	3	3								
	Practical Embedded Systems	3	3	3								
	Layout and Simulation of Analog IC	3	3			3						
	System -On -Chip Design	3	3			3						
	Coding Theory	3	3			3						
	Computer Vision	3	3			3						
	Cloud Computing	3	3			3						
	Optimization Theory	3	3			3						

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				class	lab	class	lab	class	lab	class	lab	
Other	Practical English for Professional Purposes	2	2					2				
Grand Total	Subtotal Required Course Credits	12										
	Subtotal Elective Course Credits	24										
	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. Before the next semester second year, the students need to satisfactorily complete meet the university-wide basic competencies of English.
3. Non-EE master 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.
4. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2014 academic year.