## Ming Chuan University Department of Electronic Engineering Master Program Course Outline for all students entering in 2024

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

		Credits	Hours			year				year		
				Fall		Spring		Fall		Spring		Note
				class	lab	class	lab	class	lab	class	lab	
Electronic Device Program	Electronic Device	3	3	3								
	Research Topics											
	Modern Optics	3	3	3								
	Optical Integrated Circuits	3	3	3								
	Semiconductor Reliability Engineering	3	3	3								
	Semiconductor Manufacturing Technology	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						1
	Digital Image Processing	3	3	3								1
	VLSI Design	3	3	3								
	Digital Video Techniques	3	3	3								
	Digital Signal Processing	3	3	3								
	Data Compression	3	3	3								
IG G1 :	Intelligent Systems	3	3	3								
IC Chip and System Program	Advanced Applied Mathematics	3	3	3								
	Practical Embedded Systems	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						
Other	Practical English for Professional Purposes	2	2					2				
Grand Total	Subtotal Required Course Credits	12										
	Subtotal Elective Course Credits	24										

## Ming Chuan University Department of Electronic Engineering Master Program Course Outline for all students entering in 2024

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		Hours	1st year				2 <sup>nd</sup> year				
Elective Courses	Credits		Fall		Spring		Fall		Spring		Note
			class	lab	class	lab	class	lab	class	lab	
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.