

Ming Chuan University Department of Electronic Engineering Master Program  
Course Outline for all students entering in 2008

Course		Credits	Hours	1 <sup>st</sup> year				2 <sup>nd</sup> year				Note
				Fall		Spring		Fall		Spring		
				class	lab	class	lab	class	lab	class	lab	
Core Required Courses	English 1、2	4	4	2		2						
	Thesis Seminar 1、2	4	4	2		2						
	English 3、4	4	4					2		2		
	Thesis Seminar 3、4	4	4					2		2		
	<b>Subtotal</b>	16	16	4		4		4		4		
Elective Courses	Semiconductor	Semiconductor physics	3	3	3							
		Solid-state physics	3	3	3							
		Nano-scale MOSFET device physics	3	3	3							
		Integrated circuit engineering	3	3	3							
		Integrated circuit devices	3	3	3							
		Solar	3	3	3							
		Semiconductor measurement techniques	3	3			3					
		Memory devices	3	3			3					
		Advanced integrated process technology	3	3			3					
		Semiconductor reliability engineering	3	3			3					
	ESD protection design for integrated circuit	3	3			3						
	Opto-electronic	Introduction to Optoelectronic device	3	3	3							
		Advanced numerical analysis	3	3	3							
		Modern Optics	3	3	3							
		Opto-Electromagnetics	3	3	3							
		Optical fiber communication science	3	3			3					
		Fourier Optics	3	3			3					
		Flat panel display Technology	3	3			3					
		Optoelectronic measurement technology	3	3			3					
		Opto-Electronics	3	3					3			
		Integrated Optics	3	3					3			
	Microwave	Antenna Engineering	3	3	3							
		RF Circuit Design	3	3	3							
		RF Circuit Design Project	3	3	3							
		Advanced Electromagnetics I	3	3	3							



Notes:

1. 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.
2. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2008 academic year.