

**Course List for International Master of Science (MS) Degree Program
in Computer Science & Information Engineering, Chang Gung University
(For students admitted in Fall, 2025) Apr. 14th, 2025**

	Course Title	1st semester	2nd semester
Compulsory	Special Project (I)	1	
	Special Project (II)		1
	Seminar (I)	2	
	Seminar (II)		2
	Seminar (III)	2	
	Seminar (IV)		2
	System Performance Analysis	3	
	Thesis	0	0
Elective	English Speaking and Presentation (I)	2	
	English Speaking and Presentation (II)		2
	English Technical Writing (I)	1	
	English Technical Writing (II)		1
	Advanced Computer Architecture		3
	Service-Oriented Architecture (SOA)	3	
	Data Engineering	3	
	Embedded Operating Systems	3	
	Parallel and Distributed Systems		3
	Digital Signal Processing	3	
	Wireless Networks		3
	Personal Communications	3	
	High-Speed Networks and Applications	3	
	Machine Learning and Its Medical Applications		3
	Python Programming for Deep Learning		3
	Medical Image Processing		3
	Selected Topics on Network Systems	3	
	Cyber-Physical Systems		3
	Selected Topics on Mobile Communications		3
Remarks	1. Graduation credits required: <u>40</u>		
	2. Compulsory credits: <u>13</u> (including 2-credit Special Project, 8-credit Seminar, and 3-credit System Performance Analysis).		
	3. Elective credits: <u>21</u> . 21 credits of elective courses for the master's program, of which at least 12 credits of elective courses for the master's or doctoral program of the department must be taken. A maximum of 9 credits of English-taught courses taught by the master's or doctoral programs of the Department of Electrical Engineering and the Department of Electronics Engineering can be taken. If you want to take electives from other departments' English-taught courses for master's or doctoral programs can only be taken with the approval of the department chair, up to 3 credits.		
	4. Six thesis credits will be awarded upon the completion of oral defense exam.		
	5. Graduation requires meeting the English proficiency threshold: The standards for passing the English proficiency test are implemented according to the "English Proficiency Requirements for Graduate Students of the College of Engineering, Chang Gung University".		
	6. Depending on the availability, students may join the PhD program of Computer Science and Information Engineering for their required seminar courses.		