

**Curriculum of the Master Program at the Department of Artificial Intelligence**

**Chang Gung University (For students admitted in Fall, 2025)**

April 16, 2026 Revision

Required / Elective	Subject	1st Y		Subject	2nd Y	
		1st Sem.	2nd Sem.		1st Sem.	2nd Sem.
Required	Introduction to Intelligent Technologies	3				
	Technical Literature Survey	1	1			
Elective	Deep Learning	3		Independent Study	2	2
	Deep Learning Architecture	3		Technical Literature Survey ★	1	1
	Generative Artificial Intelligence	3				
	Blockchain Technologies: Foundation and Application	3				
	Bioinformatic Analysis	3				
	Intelligence Medicine Engineering	3				
	Medical Image Processing	3				
	Introduction to Quantum Computing	3				
	Intelligent Cyber-Physical Systems	3				
	Introduction to AI and Musics	3				
	Computer Vision	3				
	Advanced Computer Vision		3			
	Natural Language Processing		3			
	Natural Language Processing and Applications		3			
	Introduction to Cybersecurity		3			
	Clinical Informatics		3			
	Digital Medical Image Processing		3			
	Machine Learning and Its Medical Applications		3			
	Clinical Image Analysis		3			
	Generative Artificial Intelligence Applications		3			
	Applications of Deep Learning		3			
	AI IC Design		3			
	Quantum Machine Learning		3			
	AI and Internet of Things		3			
	Multiagent Systems		3			
	Robot Learning		3			
Introduction to Artificial Intelligence and Literature		3				
Advanced AI Programming		3				
Academic Skills for AI Scientists		3				
Note	<p>1. Graduation Credits: 35 credits                      (1) Required Courses: 5 credits                      (2) Elective Courses: 24 credits (Up to 6 credits from approved Master's-level courses offered by other departments may be counted toward the program requirements.)                      (3) Thesis: 6 credits (awarded upon passing the degree examination and submitting a thesis that passes the review)</p> <p>2. Graduation is contingent upon meeting the English graduation threshold.                      (1) Graduation is contingent upon meeting the English graduation threshold. For detailed regulations, please refer to the "Implementation Measures for English Graduation Threshold" provided by the Language Center of CGU.                      (2) Those who obtained certificates before enrollment can submit them directly to the department for approval.</p> <p>3. With the approval of the advisor, students may take up to 6 credits of courses from other master's programs. Students intending to take courses from other departments should complete the "Application Form for Course Enrollment from other departments" form, follow the application procedure, and submit it to the department for approval.</p> <p>4. Students who wish to take "Quantum Machine Learning" must first complete "Introduction to Quantum Computing."</p> <p>5. Students who have completed "Introduction to AI and Machine Learning" may have the credits counted toward "Introduction to Intelligent Technologies."</p> <p>6. "Technical Literature Survey" and "Independent Study" can be taken repeatedly.</p> <p>7. All elective courses in the department's doctoral program can be recognized as elective credits for the department. (Please select courses offered by the department's doctoral program for positions marked with a dashed line.)</p> <p>8. The course is marked as ★ taught in English.</p>					