

Curriculum of the Master Program at the Department of Artificial Intelligence

Chang Gung University (For students admitted in Fall, 2026)

June 12, 2026 Revision

Required / Elective	Subject	1st Sem.	2nd Sem.
Elective	Introduction to Intelligent Methodologies	3	
	Introduction to Multiagent Systems	3	
	Blockchain Technologies: Foundation and Application	3	
	Bioinformatic Analysis ★	3	
	Medical Image Processing	3	
	Introduction to Quantum Computing ★	3	
	Intelligent Cyber-Physical Systems ★	3	
	Introduction to AI and Musics	3	
	Genomic Data Science	3	
	Applications of Machine Learning	3	
	Introduction to Cybersecurity ★		3
	Clinical Informatics ★		3
	Machine Learning and Its Medical Applications		3
	Generative Artificial Intelligence Applications		3
	Applications of Deep Learning		3
	AI IC Design		3
	AI and Internet of Things ★		3
	Robot Learning		3
	Introduction to Artificial Intelligence and Literature		3
	Advanced AI Programming ★		3
	Technical Literature Survey ★	1	1
	Introduction to Intelligent Technologies ★	3	
	Deep Learning Architecture ★	3	
	Generative Artificial Intelligence ★	3	
	Intelligence Medicine Engineering ★	3	
	Quantum Information ★	3	
	Graph Mining and Learning	3	
	Academic Paper Writing in Artificial Intelligence ★	3	
	Advanced Computer Vision ★		3
	Natural Language Processing ★		3
	Digital Medical Image Processing ★		3
	Clinical Image Analysis ★		3
	Quantum Machine Learning ★		3
	Multiagent Systems ★		3
Note	1. Graduation Credits: 35 credits (1) Elective Courses: 29 credits (Up to 6 credits from master's programs of other departments/institutes may be recognized after review): a. Students from non-computing disciplines are advised to take "Introduction to Intelligent Methodologies " or "Introduction to Intelligent Technologies" from the Ph.D. program. b. 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 for Taking Courses from Other Departments" form, follow the application procedure, and submit it to the department for approval. c. Students must complete at least two semesters of the doctoral-level course Technical Literature Survey offered by the department. (2) Thesis: 6 credits (Awarded after passing the degree examination and submitting the approved thesis). 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. 3. All elective courses offered by the PhD program can be counted as departmental elective credits. 4. "Computer Vision", "Deep Learning", and "Natural Language Processing" can be substituted with credits from the corresponding TAICA courses. For details, please refer to the TAICA Course Credit Recognition List. 5. Students who complete the required courses and credits of the Memory Technology Professional Program may have those credits recognized toward the graduation requirements of the department's master's program. However, students must still complete all required master's program core courses and the master's thesis (or a technical report approved as a thesis substitute) to fulfill the graduation requirements of the department's master's program.		