Curriculum of the Master Program at the Department of Artificial Intelligence

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

Nov 9, 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 Artificial Intelligence 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
	Artificial Intelligence & Internet of Things ★		3
	Advanced AI Programming ★		3
	Artificial Intelligence and Clinical Decision-Making		3
	Artificial Intelligence and Statistics for Clinical Research		3
	Doctoral program: Technical Literature Survey ★	1	1
	Doctoral program: Introduction to Intelligent Technologies ★	3	
	Doctoral program: Deep Learning Architecture ★	3	
	Doctoral program: Generative Artificial Intelligence ★	3	
	Doctoral program: Intelligent Medical Engineering ★	3	
	Doctoral program: Quantum Information ★	3	
	Doctoral program: Graph Mining and Learning ★	3	
	Doctoral program: Academic Paper Writing in Artificial Intelligence ★	3	
	Doctoral program: Advanced Machine Learning ★		3
	Doctoral program: Natural Language Processing ★		3
	Doctoral program: Multiagent Systems ★		3
	Doctoral program: Advanced Computer Vision ★		3
	Doctoral program: Reinforcement Learning ★		3
	Doctoral program: Quantum Machine Learning ★		3
	Doctoral program: Digital Medical Image Processing ★		3
	Doctoral program: Clinical Image Analysis ★		3
	Doctoral program: Robot Learning ★		3
	1.Graduation Credits: 35 credits English-taught courses： ★		
Note	(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 designated courses and credit requirements under the Memory Profession Program may count the credits toward the graduation requirements of the Department's master's program. However, students are still required to complete two semesters of the doctoral course Technical Literature Survey offered by the Department, as well as a thesis (or a technical report in lieu of a thesis), in order to meet the Department's master's degree graduation requirements.		