

**Curriculum of Graduate Institute of Health Data Science**  
(For students admitted in Fall, 2025) 2025.05.09

Required /Elective	Subject	Year 1		Subject	Year 2	
		1st Semester	2nd Semester		1st Semester	2nd Semester
	Introduction to Intelligent Methodologies	3		Seminar	1	
	Introduction of Health Data Science	3				
Required	Artificial Intelligence in Health Sciences Application		3			
	Seminar	1	1			
Elective	Computer Vision	3		Multiomics Data Mining and Meta-Analysis	3	
	Data Analytics	3		Health Data Consolidation and Platforms	3	
	Deep Learning	3		Health Signal Processing and Timing Analysis		3
	Generative Artificial Intelligence	3		Clinical Image Analysis		3
	Intelligence Medicine Engineering	3				
	Medical Image Processing	3				
	Bioinformatic Analysis	3				
	Machine Learning and Health Data Analysis		3			
	Big Data Analytics Practice		3			
	Natural Language Processing and Applications		3			
	Clinical Informatics		3			
	Machine Learning and Its Medical Applications		3			
	Generative Artificial Intelligence Applications		3			
	Medical Imaging Analysis and AI in Medical Diagnostics		3			
Note	1. Academic Track: Graduation Credits: 30 credits (1) Required Courses: 12 credits (2) Elective Courses: 12 credits (3) Thesis: 6 credits (awarded upon passing the degree examination and submitting a thesis that passes the review)					
	2. 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 our university.					
	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 for Taking Courses from Other Departments" form, follow the application procedure, and submit it to the department for approval.					
	4. The "Seminar" course may be taken repeatedly.					