

Course list for Cross-Institutional Course Enrolment (Semester 2, 2025/26)

HKU Musketeers Foundation Institute of Data Science The University of Hong Kong

Last update: November 27, 2025

Course Code	Course Title	Level (RPG/TPG)	Pre-requisites	Class Dates	Class Time	Venue	Quota for Non-HKU Students (if any)	Course Syllabus URL	Contact Information (Name & Email)	Remarks (Please specify if the medium of instruction is NOT English)
DATA8006	Advanced Data Mining	RPG	undergraduate data structure, probability and programming	Jan 19 - May 26, 2026 (Mondays)	14:00 - 16:50	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8006/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA8008	Scalable Optimization Methods in Data Science	RPG	Real Analysis, Linear Algebra, Operational Research, Statics and Probability, Optimization (Linear and Convex)	Jan 19 - May 26, 2026 (Tuesdays)	09:30 - 12:20	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8008/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA8010	Embodied AI: Perception, Representation and Action	RPG	linear algebra, probability and random processes, optimization, signal processing, and machine learning	Jan 19 - May 26, 2026 (Tuesdays)	14:00 - 16:50	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8010/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA8009	Advanced Deep Learning for Computer Vision	RPG	linear algebra, statistics, and programming	Jan 19 - May 26, 2026 (Wednesdays)	14:00 - 16:50	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8009/	Ms. Kaye Shiu kayesyk@hku.hk	Nil

DATA8004	Optimization for Statistical Learning	RPG	undergraduate linear algebra, calculus, real analysis, probability theory and convex optimization	Jan 19 - May 26, 2026 (Thursdays)	09:30 - 12:20	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8004/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA8007	Foundations of Sequential Decision-Making	RPG	Real Analysis, Linear Algebra, Operational Research, Statics and Probability, Optimization (Linear and Convex)	Jan 19 - May 26, 2026 (Thursdays)	14:00 - 16:50	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8007/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA 8018	Deep Generative Models	RPG	college-level coding and mathematic	Jan 19 - May 26, 2026 (Fridays)	14:00 - 16:50	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8018/	Ms. Kaye Shiu kayesyk@hku.hk	Nil
DATA 8003	Theoretical Foundation of Deep Learning	RPG	undergraduate linear algebra, statistics, probability, and calculus	Jan 19 - May 26, 2026 (Fridays)	09:30 - 12:20	P603 IDS Seminar Room, Graduate House	3	https://datascience.hku.hk/study/research-postgraduate/data8003/	Ms. Kaye Shiu kayesyk@hku.hk	Nil