Classification	Course No.	Code	Course Name	Credit(s) (Homework)	Semester	Remark
	AI495	F2.495	Individual Study	0:6:1	Spring, Summer Fall, Winter	
	AI501	F2.501	Machine Learning for Al	3:0:3	Spring or Fall	0
	AI502	F2.502	Deep Learning	3:0:3	Spring or Fall	
	AI503	F2.503	Mathematics for Al	3:0:3	Spring or Fall	
	AI504	F2.504	Programming for Al	3:0:3	Spring or Fall	
	AI505	F2.505	Optimization for Al	3:0:3	Spring or Fall	0
	AI506	F2.506	Data Mining and Search	3:0:3	Spring or Fall	0
	AI507	F2.507	Stochastic Process for Al	3:0:3	Spring or Fall	
	AI508	F2.508	Introduction to Autonomous Vehicles	3:0:3	Spring or Fall	
	AI599	F2.599	Special Topics in Machine Learning	3:0:3	Spring or Fall	©
	AI601	F2.601	Advanced Machine Learning for Al	3:0:3	Spring or Fall	
	AI602	F2.602	Advanced Deep Learning	3:0:3	Spring or Fall	
	AI603	F2.603	Machine Learning Theory	3:0:3	Spring or Fall	
	AI604	F2.604	Deep Learning for Computer Vision	3:0:3	Spring or Fall	
	AI605	F2.605	Deep Learning for Natural Language Processing	3:0:3	Spring or Fall	
	AI606	F2.606	Recommender Systems	3:0:3	Coring or Fall	
	A1606 A1607	F2.607	Graph Mining and	3:0:3	Spring or Fall Spring or Fall	
		<u> </u>	Social Network Analysis		, ,	
	A1608	F2.608	AI-based Time Series Analysis Parallel and Distributed	3:0:3	Spring or Fall	
	A1609	F2.609	Computation for Al Sequential Decision Making under	3:0:3	Spring or Fall	
	AI610	F2.610	Uncertainty	3:0:3	Spring or Fall	
	AI611	F2.611	Deep Reinforcement Learning	3:0:3	Spring or Fall	
Elective	AI612	F2.612	Machine Learning for Healthcare	3:0:3	Spring or Fall	
Major Courses	A613	F2.613	Musical Applications of Machine Learning	3:0:3	Fall	●GCT634
	AI614	F2.614	Robot Task and Motion Planning	3:0:3	Spring or Fall	
	AI615	F2.615	Information Theory	3:0:3	Fall	●EE623
	AI616	FS.616	Deep Learning Theory	3:0:3	Spring or Fall	
	AI617	FS.617	Machine Learning for Robotics	3:0:3	Spring or Fall	
	AI618	FS.618	Generative Model and Unsupervised Learning	3:0:3	Spring or Fall	
	AI619	FS.619	Al for medical imaging and signals	3:0:3	Spring or Fall	
	AI620	FS.620	Bias and Ethics in Natural Language Processing	3:0:3	Spring or Fall	
	AI621	FS.621	Computational Image Generation and Manipulation	3:0:3	Spring or Fall	
	AI622	FS.622	3D Vision	3:0:3	Spring or Fall	
	AI623	FS.623	Mathematical Analysis for Al	3:0:3	Spring or Fall	
	AI624	FS.624	Information Retrieval for Al	3:0:3	Spring or Fall	
	AI701	F2.701	Bayesian Machine Learning	3:0:3	Spring or Fall	
	AI702	F2.702	Interpretability and Interactivity in Al	3:0:3	Spring or Fall	
	AI703	F2.703	Systems and Applications of Artificial Intelligence and Machine Learning	3:0:3	Spring	
	AI704	F2.704	Embodied Intelligence	3:0:3	Spring or Fall	
	AI705	F2.705	Large Language Models	3:0:3	Spring or Fall	
	AI706	F2.706	Bayesian nonparametric methods for machine learning	3:0:3	Spring or Fall	
	AI707	F2.707	Advanced Topics in Deep Reinforcement Learning	3:0:3	Spring or Fall	
	AI708	F2.708	Bayesian deep learning	3:0:3	Spring or Fall	
	AI709	F2.709	Advanced Deep Learning Theory	3:0:3	Spring or Fall	
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Classification	Course No.	Code	Course Name	Credit(s) (Homework)	Semester	Remark
Research	AI960	F2.960	M.S. Thesis Research		Spring and Fall	
	Al966	F2.966	M.S. Seminar	1:0:1	Spring and Fall	
	AI980	F2.980	Ph.D. Thesis Research		Spring and Fall	
	Al986	F2.986	Ph.D. Seminar	1:0:1	Spring and Fall	

©: A Course mutually recognized by undergraduate and graduate programs.

•: Alternative courses

Course No.	Course Name	Alternative courses		
Course No.	Course Name	Course No.	Course Name	
AI615	Information Theory	EE623	Information Theory	
AI613	Musical Applications of Machine Learning	GCT634	Musical Applications of Machine Learning	