

Table of Curriculum

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
Elective Courses	DS501	G8.501	Statistical Inference for Data Science	3:0:3	Spring	◎
	DS503	G8.503	Machine Learning for Data Science	3:0:3	Spring	◎
	DS504	G8.504	Programming for Data Science	3:0:3	Spring	◎
	DS523	G8.523	Pervasive Computing for Data Science	3:0:3	Fall	◎
	DS535	G8.535	Recommender System and Graph Machine Learning	3:0:3	Fall	◎
	DS545	G8.545	Business Intelligence	3:0:3	Fall	◎
	DS551	G8.551	Human-Computer Interaction: Theory and Design	3:0:3	Spring	◎
	DS621	G8.621	Social Computing Systems Design and Analysis	3:0:3	Fall	
	DS622	G8.622	Knowledge Structure and Modeling	3:1:3	Spring	
	DS623	G8.623	Content Networking	3:0:3	Spring	
	DS631	G8.631	Data Mining for Social Networks	3:0:3	Fall	
	DS641	G8.641	Human Decision Making and Support	3:0:3	Fall	
	DS642	G8.642	Knowledge Engineering and Intelligent Decision Making	3:0:3	Spring	
	DS651	G8.651	Introduction to Learning Science	3:0:3	Fall	
	DS652	G8.652	Cognitive Engineering	3:0:3	Spring	
DS801	G8.801	Special Topics in Data Science I	3:0:3	Spring and Fall		
Research	DS960	G8.960	MS Thesis	0:3:3	Spring and Fall	
	DS966	G8.966	Seminar in MS	1:0:1	Spring and Fall	
	DS980	G8.980	Ph.D. Thesis	0:3:3	Spring and Fall	
	DS986	G8.986	Seminar in Ph.D	1:0:1	Spring and Fall	

※ ◎: Course mutually recognized by undergraduate and graduate programs

Substitute Course List

Designation of Substitute Course according to Course Closure of Graduate School of Knowledge Science Engineering(KSE)					
Classification	Operating Courses		Closed Courses		
	Course No.	Course Name	Course No.	Course Name	Note
Elective Courses	DS545	Business Intelligence	KSE521	Business Intelligence	Course Closure
Elective Courses	DS503	Machine Learning for Data Science	KSE527	Machine Learning for Knowledge Service	Course Closure
Elective Courses	DS551	Human-Computer Interaction: Theory and Design	KSE531	Human-Computer Interaction: Theory and Design	Course Closure
Elective Courses	DS651	Introduction to Learning Science	KSE611	Introduction to Learning Science	Course Closure
Elective Courses	DS641	Human Decision Making and Support	KSE612	Human Decision Making and Support	Course Closure
Elective Courses	DS622	Knowledge Structure and Modeling	KSE623	Knowledge Structure and Modeling	Course Closure
Elective Courses	DS523	Pervasive Computing for Data Science	KSE624	Mobile and Pervasive Computing for Knowledge Services	Course Closure
Elective Courses	DS631	Data Mining for Social Networks	KSE625	Data Mining for Social Networks	Course Closure
Elective Courses	DS623	Content Networking	KSE631	Content Networking	Course Closure
Elective Courses	DS652	Cognitive Engineering	KSE641	Cognitive Engineering	Course Closure
Elective Courses	DS642	Knowledge Engineering and Intelligent Decision Making	KSE643	Knowledge Engineering and Intelligent Decision Making	Course Closure
Elective Courses	DS621	Social Computing Systems Design and Analysis	KSE652	Social Computing Systems Design and Analysis	Course Closure
Elective Courses	DS801	Special Topics in Data Science I	KSE801	Special Topics in Knowledge Service Engineering I	Course Closure
Elective Courses	DS960	MS Thesis	KSE960	MS Thesis	Course Closure
Elective Courses	DS966	Seminar in MS	KSE966	Seminar in MS	Course Closure
Elective Courses	DS980	Ph.D. Thesis	KSE980	Ph.D. Thesis	Course Closure
Elective Courses	DS986	Seminar in Ph.D	KSE986	Seminar in Ph.D	Course Closure
Elective Courses	CS564	Data Science Methodology	KSE525	Data Mining and Knowledge Discovery	Course Closure
Elective Courses	CS665	Advanced Data Mining	KSE526	Analytical Methodologies for Big Data	Course Closure