

Table of Curriculum

☐ Master and Doctoral program

Classification	Subject No.	Subject Name	Lecture:Lab: Credit	Semester	Remark
Mandatory General Course	CC010	Special Lecture on Leadership	1:0:0	fall	required
	CC020	Ethics and Safety I	1AU	spring fall	
	CC500	Scientific Writing	3:0:3	spring fall	Choose
	CC511	Probability and Statistics	2:3:3	spring fall	1
	CC513	Engineering Economy and Cost Analysis	3:0:3	fall	
	CC522	Introduction to Instruments	2:3:3	fall	
	CC530	Entrepreneurship and Business Strategies	3:0:3	fall	
	CC532	Collaborative System Design and Engineering	4:0:4	spring	
Elective	WST500	Introduction to Web Science and Technology	3:0:3	spring	**
	WST501	Fundamentals of Searching Web-scale Datasets	3:0:3	spring	**
	WST510	Internet System Technology	3:0:3	spring	*CS542 **
	WST520	Software Engineering for the Web World	3:0:3	spring fall	**
	WST540	Web Search and Text Analysis	3:0:3	spring	**
	WST550	Semantic Web	3:0:3	spring	*CS590 **
	WST560	Mobile Web Applications	3:0:3	spring	**
	WST590	Research Methods for Information Behaviors on the Web	3:0:3	spring	**
	WST591	Web Audience Research	3:0:3	fall	**
	WST620	Research on Web Software Dependability	3:0:3	fall	
	WST621	External Memory Data Structures	3:0:3	spring fall	
	WST622	Digital Contents Security	3:0:3	spring fall	*CS646
	WST630	Parallel Processing	3:0:3	spring fall	*CS610
	WST640	Information Storage and Retrieval	3:0:3	spring fall	*CS660
	WST650	Linguistic Web Science	3:0:3	spring fall	
	WST660	Advances in Mobile and Wireless Networks	3:0:3	spring	
	WST665	Large Scale Image & Video Retrieval	3:0:3	fall	
	WST670	Online Social Network	3:0:3	fall	*GCT673
	WST690	Human-Centered Data Analysis	3:0:3	spring	
	WST891	Special Topics in Web Science and Technology	3:0:3	spring fall	
CS500	Design and Analysis of Algorithms	3:0:3	spring	**	

Classification	Subject No.	Subject Name	Lecture:Lab: Credit	Semester	Remark
	CS510	Computer Architecture	3:0:3	spring	**
	CS520	Theory of Programming Languages	3:0:3	fall	**
	CS522	Theory of Formal Languages and Automata	3:0:3	spring	**
	CS530	Operating System	3:0:3	spring fall	**
	CS540	Network Architecture	3:0:3	spring fall	**
	CS548	Advanced Information Security	3:0:3	spring	**
	CS550	Software Engineering	3:0:3	spring	**
	CS560	Database System	3:0:3	spring	**
	CS562	Database Design	3:0:3	fall	**
	CS570	Artificial Intelligence and Machine Learning	3:0:3	spring fall	**
	CS574	Natural Language Processing I	3:0:3	fall	**
	CS580	Computer Graphics	3:0:3	spring	**
	CS600	Graph Theory	3:0:3	fall	
	CS664	Advanced Database System	3:0:3	fall	
Research	WST960	M.S Thesis		spring fall	
	WST965	Individual Study in M.S		spring fall	
	WST966	Seminar(M.S)	1:0:1	spring fall	
	WST980	Ph.D Thesis		spring fall	
	WST986	Seminar(Ph.D)	1:0:1	spring fall	

※ Notes: 1) * Stands for substitutable courses

2) ** Stands for courses open to both undergraduate and graduate students