

Curriculum

☐ Undergraduate

Classification	Subject No.	Subject Name	Lecture:Lab:Credit (Homework)	Semester	Remark
Mandatory Major Course	CS204	Discrete Mathematics	3:0:3(8)	Spring, Fall	*MA260
	CS206	Data Structure	3:0:3(6)	Spring, Fall	
	CS300	Algorithms	3:0:3(8)	Fall	
	CS311	Computer Organization	3:0:3(3)	Spring	*EE312
	CS320	Programming Language	3:0:3(3)	Spring	
	CS330	Operating Systems and Lab.	3:3:4(12)	Spring, Fall	
Elective Major Course	CS200	Introduction to Computer Science	3:1:3(3)	Spring	
	CS202	Problem Solving	2:3:3(15)	Fall	
	CS211	Digital System and Lab.	3:3:4(10)	Spring	
	CS220	Programming Principles	3:0:3(6)	Spring or Fall	
	CS230	System Programming	3:0:3(4)	Spring, Fall	
	CS310	Microprocessor and Lab.	3:3:4(10)	Fall	
	CS322	Formal Languages and Automata	3:0:3(6)	Fall	
	CS350	Introduction to Software Engineering	3:0:3(2)	Spring	
	CS360	Introduction to Database	3:0:3(8)	Spring, Fall	
	CS362	File Structures	2:3:3(6)	Fall	
	CS370	Symbolic Programming	2:3:3(6)	Spring	
	CS402	Introduction to Logic for Computer Science	3:0:3(6)	Spring or Fall	
	CS408	Computer Science Project	1:6:3	Spring	
	CS410	Introduction to VLSI Design	3:0:3(4)	Spring or Fall	
	CS420	Compiler Design	3:0:3(6)	Spring	
	CS422	Computation Theory	3:0:3(8)	Spring or Fall	
	CS440	Data Communication	3:0:3(6)	Spring	
	CS441	Introduction to Computer Network	3:0:3(9)	Spring or Fall	
	CS455	Software Project	2:3:3(4)	Fall	
	CS470	Introduction to Artificial Intelligence	3:0:3(8)	Spring	
CS480	Introduction to Computer Graphics	3:3:4(6)	Spring		
CS489	Computer Ethic & Social Issues	3:0:3(2)	Fall		
CS492	Special Topics in Computer Science	3:0:3(6)	Spring or Fall		
Research	CS490	Research in Computer Science	0:6:3	Spring, Fall	
	CS495	Individual Study	0:6:1	Spring, Fall	
	CS496	Seminar	0:2:1	Spring, Fall	

※ The "*" mark represents a course that can be substituted

400-level courses are recognizable in both bachelor's and master's programs.

□ Graduate

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Homework)	Semester	Remark
General Course	CC510	Introduction to Computer Application	2:3:3(10)	Spring, Fall	
	CC511	Probability and Statistics	2:3:3(6)	Spring, Fall	
	CC512	Introduction to Materials and Engineering	3:0:3(3)	Spring, Fall	
	CC513	Engineering Economy and Cost Analysis	3:0:3(6)	Fall	
	CC522	Introduction to Instruments	2:3:3(8)	Fall	
	CC530	Entrepreneurship and Business Strategies	3:0:3(3)	Fall	
Elective Major Course (Essential)	CS500	Design and Analysis of Algorithms	3:0:3(6)	Spring	**
	CS510	Computer Architecture	3:0:3(6)	Fall	**
	CS520	Theory of Programming Languages	3:0:3(6)	Fall	**
	CS522	Theory of Formal Languages and Automata	3:0:3(6)	Spring	**
	CS530	Operating System	3:0:3(6)	Spring or Fall	**
	CS550	Software Engineering	3:0:3(4)	Spring	**
	CS560	Database System	3:0:3(6)	Spring	**
	CS562	Database Design	3:0:3(6)	Fall	**
	CS570	Artificial Intelligence	3:0:3(6)	Spring or Fall	**
Elective Major Course (Elective)	CS540	Network Architecture	3:0:3(9)	Spring or Fall	**
	CS542	Internet Systems Technology	3:0:3(9)	Fall	**
	CS574	Natural Language Processing I	3:0:3(6)	Fall	**
	CS576	Computer Vision	3:0:3(8)	Spring, Fall	**
	CS579	Computational Linguistics	3:0:3(6)	Spring	**
	CS580	Interactive Computer Graphics	2:3:3(10)	Spring	**
	CS600	Graph Theory	3:0:3(6)	Fall	
	CS604	Computational Geometry	3:0:3(8)	Spring	
	CS610	Parallel Processing	3:0:3(8)	Spring	*EE611
	CS620	Theory of Compiler Construction	3:0:3(2)	Fall	
	CS642	Distributed Processing Systems	3:0:3(3)	Spring	
	CS644	Advanced Network Architecture	3:0:3(6)	Fall	
	CS650	Advanced Software Engineering	3:0:3(6)	Fall	
	CS655	System Modeling and Analysis	3:0:3(6)	Spring	*EE612
	CS660	Information Storage and Retrieval	3:0:3(6)	Spring	
	CS662	Distributed Database	3:0:3(6)	Spring	
	CS664	Advanced Database System	3:0:3(6)	Fall	
	CS670	Fuzzy and Intelligent System	3:0:3(6)	Spring	
	CS674	Natural Language Processing II	3:0:3(6)	Fall	
	CS676	Pattern Recognition	3:0:3(3)	Fall	*EE634
	CS678	Intelligent Robotics	3:0:3(6)	Spring or Fall	
	CS682	Digital Storytelling	3:0:3(3)	Spring	
	CS684	Human-Computer Interaction	3:0:3(5)	Fall	

※ The "*" mark represents a course that can be substituted.

The "***" mark indicates 500-level courses are recognizable in both bachelor's and master's programs.

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Homework)	Semester	Remark
Elective Major Course	CS700	Topics in Computation Theory	3:0:3(8)	Spring or Fall	
	CS710	Topics in Computational Architecture	3:0:3(6)	Spring or Fall	
	CS712	Topics in Parallel Processing	3:0:3(6)	Fall	
	CS720	Topics in Programming Languages	3:0:3(2)	Spring or Fall	
	CS730	Topics in Operating Systems	3:0:3(6)	Spring or Fall	
	CS744	Topics in System Architecture	3:0:3(9)	Spring or Fall	
	CS750	Topics in Software Engineering	2:3:3(6)	Spring or Fall	
	CS760	Topics in Database System	3:0:3(6)	Spring or Fall	
	CS770	Topics in Computer Vision	3:0:3(8)	Spring or Fall	
	CS772	Topics in Natural Language Processing	3:0:3(6)	Spring or Fall	
	CS774	Topics in Artificial Intelligence	3:0:3(6)	Spring or Fall	
	CS776	Topics in Cognitive Science	3:0:3(6)	Spring or Fall	
	CS780	Topics in Interactive Computer Graphics	2:3:3(10)	Spring or Fall	
	CS788	Topics on Human-Computer Interaction	3:0:3(6)	Spring or Fall	
	CS790	Technical Communication in Computer Science	2:3:3(6)	Spring, Fall	
Research	CS960	M.S. Thesis Research		Spring, Fall	
	CS965	Individual Study in M.S.		Spring, Fall	
	CS966	Seminar	1:0:1	Spring, Fall	
	CS980	Ph.D. Dissertation Research		Spring, Fall	
	CS986	Seminar	1:0:1	Spring, Fall	