Code	(New) Course Name	Code	(Old) Course Name ※For students enrolled in AY2017 and before	For students enrolled in AY2016 and AY2017										For students enrolled in AY2015									
				SR	CF	CM	SD	VD	CN	VH	RC	BM	SE	SR	CF	CM	SD	VD	CN	VH	RC	BM	SE
MA01	Linear Algebra I	M01	Linear Algebra I	○										○									
MA02	Linear Algebra II	M02	Linear Algebra II	○										○									
MA03	Calculus I	M03	Calculus I	○										○									
MA04	Calculus II	M04	Calculus II	○										○									
MA05	Fourier Analysis	M05	Fourier Analysis		○	○		○	○	○	○	○			○	○		○	○	○	○	○	
MA06	Complex Analysis	M06	Complex Analysis		○	○		○	○		○				○	○		○	○		○		
MA07	Probability and Statistics	M07	Probability and Statistics	○											○	○			○	○	○	○	○
MA08	Applied Algebra	M08	Applied Algebra		○	○									○	○							
MA09	Mathematical Logic	M09	Mathematical Logic		○										○								
MA10	Introduction to Topology	M10	Introduction to Topology																				
MA11	Applied Geometry and Topology	M11	Applied Geometry and Topology																				
NS01	Dynamics	NS01	Dynamics	○										○									
NS02	Electromagnetism	NS02	Electromagnetism	○										○									
NS03	Quantum Mechanics	NS03	Quantum Mechanics																				
NS04	Semiconductor Devices	NS04	Semiconductor Devices				○	○									○	○					
NS05	Thermodynamics and Statistical Mechanics	NS05	Thermodynamics and Statistical Mechanics																				
NS07	Introduction to Optoelectronics	NS07	Introduction to Optoelectronics																				
LI01	Computer Literacy	L01	Literacy I	○										○									
		L02	Literacy II											○									
LI03	Guidance of Computer Science and Engineering	L03	Introduction to Computer Science and Engineering	○										○									
LI04	Introduction to Computer Systems	L04	Introduction to Computer Systems	○										○									
LI06	Information Security	L06	Information Security																	○			
LI07	Information and Occupations	L07	Information & Occupations																				
LI08	Information Ethics	L08	Information Ethics	○																			
LI09	Fundamentals of System Development and Project Management	L09	Introduction to IT Engineers																				
LI10	Introduction to Multimedia Systems	L10	Introduction to Multimedia Systems	○																			
LI11	Introduction to Computer Network	L11	Intro. to Computer Networking	○													○	○	○	○	○	○	
LI12	Creativity Studio	L12	Creativity Studio																				
LI13	CSE Exercise I	L05	CSE Laboratories		○		○	○		○	○	○			○		○	○		○	○	○	
LI14	CSE Exercise II																						
PL01	Introduction to Programming	P01	Introduction to Programming	○										○									
PL02	C Programming	P02	C Programming	○										○									
PL03	Java Programming I	P03	JAVA Programming I	○										○									
PL04	C++ Programming	P04	C++ Programming			○					○	○	○			○					○	○	○
PL05	Computer Languages	P05	Computer Languages																				
PL06	Java Programming II	P06	Java Programming II										○										○
FU01	Algorithms and Data Structures I	F01	Algorithms and Data Structures	○										○									
FU02	Information Theory and Data Compression	F02	Information Theory											○									
		F12	Data Compression																				
FU03	Discrete Systems	F03	Discrete Systems	○										○									
FU04	Logic Circuit Design	F04	Logic Circuit Design	○										○									
FU05	Computer Architecture	F05	Computer Architecture	○										○									
FU06	Operating Systems	F06	Operating Systems	○										○									
FU08	Automata and Languages	F08	Automata and Languages	○																			
FU09	Algorithms and Data Structures II	F09	Advanced Algorithms		○	○									○	○							
FU10	Language Processing Systems	F10	Language Processing Systems				○										○						
FU11	Numerical Analysis	F11	Numerical Analysis			○					○					○					○		
FU14	Introduction to Software Engineering	F14	Intro. to Software Engineering	○													○		○				○
FU15	Introduction to Data Management																						
SY02	Electronics	S02	Electronics						○										○				
		S03	Advanced Electronics						○										○				
SY04	Embedded Systems	S01	Computer Organization and Design																				
		S04	Embedded Systems				◎										◎						

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				SR	CF	CM	SD	VD	CN	VH	RC	BM	SE	SR	CF	CM	SD	VD	CN	VH	RC	BM	SE
SY05	Parallel Computer Systems	S05	Parallel Computer Architecture				◎										◎						
SY06	VLSI Design	S06	VLSI Design				○	○									○	○					
SY07	Advanced Logic Circuit Design	S07	Advanced Logic Circuit Design				○	○									○	○					
		S08	VLSI Device Technology																			
		S09	Computer System Engineering																			
CN02	Network Security	N02	Computer Communications and Networking						○										○			
CN03	Network Programming	N03	Computer Network Organization & Design						○										○			
CN04	Wireless Networking	N04	Digital Communication Systems					○	○	○								○	○	○		
CN05	Computer and Network System Modeling and Simulation	N05	Performance Evaluation						○										○			
IT01	Artificial Intelligence	A01	Artificial Intelligence						○	○									○	○		
IT02	Computer Graphics	A02	Computer Graphics			○			○		○					○			○		○	
IT03	Image Processing	A03	Image Processing						○		○								○		○	
		A04	Biomedical Information Technology								○										○	
IT05	Robotics and Automatic Control	A05	Robotics and Automatic Control							○										○		
IT06	Human Interface and Virtual Reality	A06	HI and VR						○										○			
IT08	Signal Processing and Linear System	A07	Linear Systems						○		○								○		○	
IT08		A08	Digital Signal Processing		○				○	○	○				○				○	○	○	
IT09	Sound and Audio Processing																					
IT10	Geometory for Visual Computing	F13	Computational Geometry																			
IT11	Information Retrieval and Natural Language Processing																					
SE01	Web Engineering	SE01	Web Engineering										○									○
SE02	Web Data Modeling	SE02	Web Programming										○									○
SE04	Advanced Software Engineering	SE04	Software Engineering II																			
SE05	Software Studio	SE05	Software Studio										○									○
SE06	Concurrent and distributed systems	SE06	Distributed Computing																			
SE07	Database Systems	F07	Database Systems	○																		

For students who have acquired all academic credits for Strongly Recommended Courses (only for Upper Division Courses) and Track Recommended Courses, acquisition of expertise in tracks

◎   Courses marked with a "◎" indicate courses that students may take for qualification of authorization of expertise provided for in Article 36, Paragraph 36.3.