

[For Students Enrolled In /After 2021] Information Systems Science and Engineering Course Curriculum Chart

●:Mandatory Subjects □:Designated Registration Subjects ①②④: Number of Credits

subjects	semester	1st Year Student		2nd Year Student		3rd Year Student		4th Year Student		Number of credits required for graduation
		1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester	
Foreign Language Subjects		English 109① English 110① Professional Communication 301② Academic Literacy 302②		Professional Communication 303② Academic Literacy 304②						10 or more
Liberal Arts Subjects	B group	※Students can take liberal arts subjects offered in English								14 or more
Major Subjects	Basic Science Subjects	Physics② Exercises in Physics②								20 or more
	Mathematics	□Engineering Mathematics 1②	□Engineering Mathematics 2② □Engineering Mathematics 3②	Introduction to Differential Equations② Introduction to Probability and Statistics②	□Engineering Mathematics 4② Statistical Analysis, Simulation, and Modeling②	Optimization and Control Theory② Applied Informatics 1②	Applied Informatics 2②			
	Information Science	□Introduction to Information Systems Engineering② □Professional Ethics② □Introduction to Experimentation②	Boolean Algebra and Logic Design② □Experimental Design②	Software Engineering② Computer Networks② Digital Signal Processing② Computer Architecture②	Databases② Operating Systems② Computer Security② Computer Graphics② Artificial Intelligence②					22 or more
	Global IT Subjects				Presentation Plus 401②	Writing for Publication 402②				
	Graduation Research subjects						●Graduation Research 1②	●Graduation Research 2②	●Graduation Research 3②	
	Information Systems Science and Engineering Course		●PBL 1: Problem Analysis and Modeling④ □Introduction to Programming② □Introduction to OOA, OOD, and UML②	●PBL 2: Team-based Design④ ●Programming Practice 1② □Programming Language②	●PBL 3: Creative Design④ ●Programming Practice 2② □Data Structures and Algorithms②	●PBL 4 Team-based Creative Design④ □Imperative Programming② □Imperative Programming Practice② Network Systems② Human Interface②	●PBL 5: Design Evolution④ Distributed Systems② Web Information Engineering② Image Processing② Systems Ergonomics②	□Data Science② Pattern Recognition and Machine Learning② Introduction to Robotic Systems② Data Visualization②		48 or more
Global IT Program			Overseas Training Program for IT and English A④, B② Overseas Training Program for Professional IT A②, B④		International Internship②				100 or more	
Selected Topics		Selected Topics (International Career Preparation)②								
										124 or more