

Curriculum Outline

	1st year	2nd year	3rd year	4th year
Computer Science Required Subjects	<ul style="list-style-type: none"> • Seminar I • Programming I (Exercises) • Data Representation • Basic Mathematics for Computer science • Calculus I • Linear Algebra I • Introduction to Data Science • Introduction to Data Literacy 	<ul style="list-style-type: none"> • Seminar II • 2nd Year Project • Computer Algorithms A,B Exercises • Calculus II • Linear Algebra II • Probability and Statistics • Programming II 	<ul style="list-style-type: none"> • Seminar III • 3rd Year Project 	<ul style="list-style-type: none"> • Seminar IV/4th Year Project • Graduation Thesis
Computer Science Elective Subjects	<ul style="list-style-type: none"> • Information and Society • Society and Data Utilization • Introduction to College Mathematics 	<ul style="list-style-type: none"> • Discrete Mathematics • Web Technologies • Information Society and Information Ethics • Digital Video Production • Introduction to Computer Systems • Interactive System • Computer Graphics • Introduction to Sensors • Introduction to Digital Media • Application Design • Programming in Python for Computer Science • Software Engineering for Data Scientists 	<ul style="list-style-type: none"> • Algorithm c • Multimedia • Data Science • Network System • System Administration • Artificial Intelligence and Machine Learning • Mathematical Models • Information Security • Software Development • Introduction to Security • Mathematical Finance • Cryptography • Programming language Theory • Introduction to Intellectual Property • Social Information System • Natural Language Processing • Introduction to Database Management Systems • Computer Architecture • Operating System • Sensor Networks • Information Science a~f • Mathematics for Computer Science a~f etc. 	
English Subjects	<ul style="list-style-type: none"> • Reading Skills I • Oral English I • Composition I • Pronunciation I • Reading and Listening for Proficiency Test a 	<ul style="list-style-type: none"> • CS Reading Skills II • CS Speaking and Listening II • CS Composition II • Reading and Listening for Proficiency Test b 	<ul style="list-style-type: none"> • Computer Science English a~f 	
Health and Physical Education	<ul style="list-style-type: none"> • Movement Education • Wellness Studies 	<ul style="list-style-type: none"> • Health Education • Leisure Studies 	Number of credits students must earn to graduate 130 credits	

※Curriculums and graduation requirements may change.