

Table of Curriculum (for Master's and Doctoral Programs)

※ In principle, a student may choose any course offered by relevant departments (Dept. of Chemical and Biomolecular Engineering, Dept. of Materials Science and Engineering, Dept. of Mechanical Engineering, Dept. of Chemistry, School of Electrical Engineering, School of Computing, and The Cho Chun Shik Graduate School for Green Transportation). However, the following courses are recommended in consideration of the nature of the program.

Classification	Course No.	Code	Course name	Lecture: Lab: Credit	Semester	Note
Elective Courses	CBE571	39.571	Energy Engineering	3:0:3	Fall	◎
	CBE771	39.771	Advanced Electrochemical Engineering	3:0:3	Spring and Fall	□CBE371
	CH464	23.464	Electroanalytical Chemistry	3:0:3	Fall	◎
	CH471	23.471	Introduction to Polymer Chemistry	3:0:	Spring or Fall	◎
	CS550	36.550	Software Engineering	3:0:3	Spring	◎/Software
	CS564	36.564	Data Science Methodology	3:0:3	Spring or Fall	◎
	CS570	36.570	Artificial Intelligence and Machine Learning	3:0:3	Spring	◎/Software
	EE772	35.772	Electronic Circuits for Green Energy	3:0:3	Fall	
	EE791	35.791	Power Conversion Circuits and Systems	3:0:3	Spring	□EE391,EE594
	GT501	19.501	Modeling and Control of Electric Propulsion Systems	3:3:4	Fall	◎
	GT506	19.506	Fundamentals of Vehicular Electric Systems	3:0:3	Fall	◎
	GT531	19.531	Battery System Modeling and Control	3:0:3	Fall	
	ME634	B7.634	Functional Materials and Structures	3:0:3	Fall	
	ME800	B7.800	Special topics in Mechanical Engineering	3:0:3(6)	Spring and Fall	
	MS617	34.617	Solid State Electrochemistry	3:0:3(3)	Spring	
MS626	34.626	Physical Properties of Energy Materials	3:0:3	Spring		

※ ◎ : Course mutually recognized by undergraduate and graduate programs □ : Prerequisites

※ Course classification, course title, and mutual recognition of credits may differ according to the effective year of the requirements.