

## Undergraduate/Graduate Courses Taken

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※ course name (credits)

### ◆ In Sogang University (Undergraduate)

#### Mathematics (56 credits)

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Analytic Geometry and Calculus I (3)	Mathematics in Finance (3)
Analytic Geometry and Calculus II (3)	Introduction to Linear Algebra (3)
Advanced Calculus I (3)	Introduction to Abstract Algebra (3)
Advanced Calculus II (3)	Differential Equations I (3)
Multivariable Calculus (3)	Applied Mathematics I (3)
Calculus with Computer I (1)	Applied Mathematics II (3)
Calculus with Computer II (3)	Theory of Functions of a Complex Variable I (3)
Theory of Sets (3)	Real Analysis I (3)
Introduction to Statistics (3)	Differential Geometry (3)
Economic Statistics (3)	Modern Geometry (3)

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#### Electronic Engineering (67 credits)

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C Language Programming (3)	Automatic Control Systems (3)
Introduction to Engineering Design (3)	Digital Logic Design (3)
Introduction to Electronics Engineering (2)	Digital Logic Circuit Laboratory (2)
Electromagnetics I (3)	Basic Electronics Laboratory (2)
Electromagnetics II (3)	Random Processes (3)
Signals and Systems (3)	Electronic Circuits Laboratory (2)
Circuit Theory I (3)	Advanced Electronic Circuits Laboratory (2)
Circuit Theory II (3)	Introduction to Microwave Circuits (3)
Electronic Circuits I (3)	Microwave Engineering (3)
Physical Electronics I (3)	RF IC Engineering (3)
Communication Systems (3)	Internet Communication Networks (3)
Digital Communications (3)	Electronic System Design Project (3)

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#### Physics and Chemistry (20 credits)

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General Physics I (3)  
General Physics II (3)  
General Chemistry I (3)  
General Chemistry II (3)  
General Physics Experiment I (1)  
General Physics Experiment II (1)  
Quantum Physics I (3)  
Thermodynamics I (3)

#### Others (31 credits)

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History and Appreciation of Western Arts (3)  
Principle of Economics (3)  
Elementary Japanese I (3)  
Ethics and Values (3)  
Theological Anthropology (3)  
Reading and Writing (2)  
Academic and Professional Writing (2)  
English I (3)  
English II (3)  
History of Science (3)  
Business and Engineering (3)

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**Total : 174 credits**

### ◆ In Osaka University (Graduate)

Analysis II (2)	Differential Equations I (2)
Functional Analysis (2)	Theory of Systems Analysis (2)
Differential Equations II (2)	Advanced Course in Mathematics IIIB (1)
Topics in Analysis (2)	Seminar in Applied Mathematics II (9)
Advanced Core in Mathematics and Physics II (2)	
Reading Course in Applied Mathematics II (9)	

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**Total : 33 credits**