

Sample course sequence (Department of Physics and Materials Science)

Course (Credit)								
	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
				Information Science (2)	Health and Sports (2)			
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Fundamental Analytical Chemistry (2)						
	Calculus I (2)	Geoenvironmental Science (2)						
	Introduction to Mechanical Engineering (2)	Calculus II (2)						
	Architectural Design (2)	Computer Hardware Basics (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses			Introductory Physical Experiments I (2)	Introductory Physical Experiments I (2)	Practical Physics Experiment for Undergraduate II (2)	Practical Physics Experiment for Undergraduate II (2)	Quantum Mechanics II (2)	Solid State Physics II (2)
				Basic Mathematics in Physics I (2)	Electromagnetism I (2)	Thermodynamics (2)	Statistical Mechanics (2)	
				Exercise in Basic Physical Mathematics A (1)	Exercise in Electromagnetism (1)	Electromagnetism II (2)	Solid state physics I (2)	
				Fundamental Physics B (2)	Basic Mathematics in Physics II (2)	Quantum Mechanics I (2)	Functional Materials (2)	
				Mechanics Exercise (1)		Exercise of Information Science (1)		
				Introduction to Linear Algebra (2)		Semiconductor Devices I (2)		
				Newtonian Mechanics (2)				
				Introduction to Materials Science and Engineering (2)				
				Introduction to Electronic Engineering (2)				
							Reading Technical English (2)	
						Graduation Research (8)		

Credits of courses other than specialized courses

18

20

10

10

6

4

68

Credits of specialized courses

2

16

7

11

8

12

56

Total credits

124

Sample course sequence (Department of Chemistry)

Course (Credit)

	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
			Information Science (2)	Health and Sports (2)				
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Fundamental Analytical Chemistry (2)						
	Calculus I (2)	Calculus II (2)						
	Earth and Earth Resource Science (2)	Geoenvironmental Science (2)						
	Architectural Design (2)	Introduction to Java Programming (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses		Basic Chemical Experiment (1)	Basic Inorganic Chemistry (2)	Basic Physical Chemistry (2)	Physical Chemistry 1 (2)	Physical Chemistry 2 (2)		
			Basic Organic Chemistry (2)	Coordination Chemistry (2)	Inorganic Chemistry 1 (2)	Inorganic Chemistry 2 (2)		
			Analytical Chemistry (2)	Organic Chemistry 1 (2)	Organic Chemistry 2 (2)	Organic Chemistry 3 (2)		
			Chemical Experiment 1 (2)	Chemical Experiment 2 (2)	Chemical Experiment 3 (2)	Chemical Experiment 4 (2)		
				Basic Environmental Chemistry (2)	Environmental Chemistry 1 (2)	Environmental Chemistry 2 (2)		
					Instrumental Analytical Chemistry 2 (2)	Instrumental Analytical Chemistry 1 (2)		
					Functional Inorganic Materials (2)	Organic Functional Materials (2)		
						Ecological Materials Engineering (2)		
							Graduation thesis (8)	

Credits of courses other than specialized courses

18

20

12

10

4

4

68

Credits of specialized courses

1

8

10

14

16

8

57

Total credits

125

Sample course sequence (Department of Earth Science)

Course (Credit)								
	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
				Information Science (2)	Health and Sports (2)			
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Fundamental Analytical Chemistry (2)						
	Calculus I (2)	Geoenvironmental Science (2)						
	Introduction to Mechanical Engineering (2)	Calculus II (2)						
	Architectural Design (2)	Computer Hardware Basics (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses			Basic Field Geology (1)	Stratigraphy Practice (1)	Field Geology-2 (2)	Ethics for Engineers (1)	Earth Science Seminar-2 (2)	
			Field Geology-1 (1)	Geo-hazards (2)	Paleontology (2)	Practice: Geology and Society (1)	Earth Science Literature Review-2 (2)	
			Petrography Practice (3)	Geological Mapping Practice (2)	Energy and Resource Geology (2)	Earth Science Seminar-1 (2)		
			Mineralogy (2)	Metamorphic Geology (2)	Geoenvironmental System Science (2)	Earth Science Literature Review-1 (2)		
			Stratigraphy (2)	Mineral Resource Geology (2)	Geo-disaster Prevention (2)			
			Structural Geology (2)	Volcanology (2)				
				Geo-history (2)				
				Marine Geology (2)				
							Graduation thesis (10)	

Credits of courses other than specialized courses

18

20

10

10

6

4

68

Credits of specialized courses

11

15

10

6

4

10

56

Sample course sequence (Department of Mathematics)

Course (Credit)								
	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
				Information Science (2)	Health and Sports (2)			
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Fundamental Analytical Chemistry (2)						
	Calculus I (2)	Geoenvironmental Science (2)						
	Introduction to Mechanical Engineering (2)	Calculus II (2)						
	Architectural Design (2)	Computer Hardware Basics (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses	Elementary Set Theory I (2)	Elementary Set Theory II (2)	Linear Algebra I (2)	Linear Algebra II (2)	Algebra II (2)	Algebra III (2)		
			Basic Analysis I (2)	Basic Analysis II (2)	Geometry II (2)	Complex Analysis II (2)		
			Analysis I (2)	Analysis II (2)	Complex Analysis I (2)	Mathematical Statistics II (2)		
			Topology I (2)	Topology II (2)	Mathematical Statistics I (2)	Real Analysis (2)		
			Survey in Pure Mathematics (2)	Algebra I (2)	Mathematics Based on Modelling and Analysis II (2)			
			Survey in Applied Mathematics (2)	Geometry I (2)				
				Mathematics Based on Modelling and Analysis I (2)				
							Graduation thesis (8)	

Credits of courses other than specialized courses

18

20

10

10

6

4

68

Credits of specialized courses

2

2

12

14

10

8

8

56

Total credits

124

Sample course sequence (Department of Mechanical, Electrical and Electronic Engineering)

Course (Credit)

	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
				Information Science (2)	Health and Sports (2)			
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Geoenvironmental Science (2)						
	Calculus I (2)	Calculus II (2)						
	Introduction to Mechanical Engineering (2)	Introduction to Java Programming (2)						
	Architectural Design (2)	Computer Hardware Basics (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses			Mechanical, Electrical and Electronic Engineering Experiments I (2)	Mechanical, Electrical and Electronic Engineering Experiments II (2)	Mechanical, Electrical and Electronic Engineering Experiments III (2)	Project Seminar (2)	Technical English Reading (2)	
			Engineering Mechanics I (2)	Introduction to Computer Programming I (2)	Introduction to Computer Programming II (2)	Mechanics of Materials I (2)	CAD for Machine Design (2)	
			Fundamentals of Fluid Dynamics (2)	Engineering Mechanics II (2)	Control Engineering I (2)	Dynamics of Machinery I (2)		
			Electromagnetism I (2)	Systems and Control (2)	Thermo-fluid Dynamics I (2)	Mechanical Design Drawing (2)		
			Fundamentals of Instrumentation Engineering(2)	Electric Circuit Theory I (2)	Electric Circuit Theory II (2)	Fundamentals of Electronic Circuit (2)		
				Electromagnetism II (2)		Optical Engineering I (2)		
								Undergraduate Research (8)

Credits of courses other than specialized courses

18

20

10

10

6

4

68

Credits of specialized courses

10

12

10

12

4

8

56

Total credits

124

Sample course sequence (Department of Architectural Design)

Course (Credit)

	First semester of freshman year	Second semester of freshman year	First semester of sophomore year	Second semester of sophomore year	First semester of Junior year	Second semester of Junior year	First semester of senior year	Second semester of senior year
Basic Education	Elementary Japanese A (2)	Elementary Japanese A (2)	Intermediate Japanese A (1)	Intermediate Japanese A (1)	Advanced Japanese A (1)	Advanced Japanese A (1)		
	Elementary Japanese B (2)	Elementary Japanese B (2)	Intermediate Japanese B (1)	Intermediate Japanese B (1)	Advanced Japanese B (1)	Advanced Japanese B (1)		
			Intermediate Japanese C (1)	Intermediate Japanese C (1)	Advanced Japanese C (1)	Advanced Japanese C (1)		
			Intermediate Japanese D (1)	Intermediate Japanese D (1)	Advanced Japanese D (1)	Advanced Japanese D (1)		
				Information Science (2)	Health and Sports (2)			
General Education	International Cultural Information A(English) (2)	International Cultural Information C(English) (2)	International Cultural Information B(English) (2)					
			Japanese Culture, Society and Nature A (2)	Japanese Culture, Society and Nature A (2)				
			Japanese Culture, Society and Nature B (2)	Japanese Culture, Society and Nature B (2)				
Common Courses for Natural Science and Technology Faculties	Environmental and Sustainability Sciences (2)	Basic Biology (2)						
Fundamental Courses for Science and Engineering	Physics (2)	Materials Science (2)						
	Fundamental Chemistry (2)	Fundamental Analytical Chemistry (2)						
	Calculus I (2)	Geoenvironmental Science (2)						
	Introduction to Mechanical Engineering (2)	Calculus II (2)						
	Architectural Design (2)	Computer Hardware Basics (2)						
		Introduction to Electronics and Electrical Engineering (2)						
Specialized Courses			Basic Architectural Design (2)	Structural Mechanics 1 (2)	Architectural Design I (2)	Architectural Design 2 (2)	Theory of Urban and Architectural design (2)	
			Basic Building structure (2)	Basic Architectural Environments (2)	Structural Mechanics 2 (2)	Structural Planning of Buildings (2)	Climate and housing (2)	
			Architectural Planning Studies (2)	Design CAD (2)	Building Construction (2)	City Planning (2)		
			Building materials (2)	Western Architectural History (2)	Building Environments 2 (2)	Building Code (2)		
				Building Environments 1 (2)	Japanese Architectural History (2)	Building Equipment 2 (2)		
				Building Equipment 1 (2)	Experiments on Building Environments (2)	Experiments on Building Structures (2)		
							Graduation thesis (8)	

Credits of courses other than specialized courses

18

20

10

10

6

4

68

Credits of specialized courses

8

12

12

12

4

8

56

Total credits

124