Graduate Program

Int-Intensive, #=With conditions(please confirm the conditions before registration)

General Subject（共通）			
3799-027	Advanced Academic Writing	A 1	
3799-028	Advanced Academic Presentation	A 2	
3799-029	Academic Writing	S 1	
3799-030	Academic Presentation	S 2	
3799-035	Urban Redesign Studio	S1S2	
3799-037	Disaster risk management of engineering systems	S1S2	
3799-038	Case Study: Social Design and management	S1S2	Int
3799-041	Urban Studies in the Post-Pandemic Era	A 1	
3799-061	Multidisciplinary Lecture on Quantum Science and Technology III	A1A2	
3799-062	Special Lecture on Next Generation Cyber Infrastructure	A1A2	
3799-136	Advanced Lecture on Resilience Engineering	S1S2	
3799-137-1	Resilience Engineering Project	S1S2	Int
3799-137-2	Resilience Engineering Project	A1A2	Int
3799-138	Systems Safety	S1S2	
3799-139	Sensing for Resilient Systems	A1A2	Int
3799-146	Engineering Competency Ⅰ - Project Based Learning-	A1A2	
3799-148	Engineering Competency III -Summer Camp-	S1S2	Int
3799-151	Engineering Literacy III -Advanced Academic Presentation-	Year-long	Int
3799-158	UT-SNU Remote LectureⅩII	A1A2	
3799-203	Global Focus on Materials Science Ⅰ	S1S2	
3799-259	Core Seminar on Gerontology Ⅹ	Year-long	Int
3799-381	International Collaborators' Special Lecture on Engineering VIII	S 2	Int
3799-382	International Collaborators' Special Lecture on Engineering IX	A1A2	Int
3799-384	International Collaborators' Special Lecture on Engineering XI	S 2	Int
3799-391	International Collaborators' Special Lecture on Engineering XVIII	A1A2	Int
3799-413	Special International Collaborative Practice S III	S1S2	Int
3799-423	Special International Collaborative Practice A III		
3799-425	Special International Collaborative Practice A V	A1A2	Int
3799-436	Special International Collaborative Workshop VI	A1A2	Int
3799-463	Practical Exercise for Gerontology	Year-long	Int
3799-502	Creativity Engineering Project I B	S1S2	Int
3799-504	Creativity Engineering Project I D	S1S2	Int
3799-505	Creativity Engineering Project I E	S1S2	Int
3799-506	Creativity Engineering Project I F	S1S2	Int
3799-509	Creativity Engineering Project I I	S1S2	Int
3799-511	Creativity Engineering Project I K	S1S2	Int
3799-512	Creativity Engineering Project I L	S1S2	Int
3799-514	Creativity Engineering Project I N	S1S2	Int
3799-515	Creativity Engineering Project I O	S1S2	Int
3799-516	Creativity Engineering Project I P	S1S2	Int
3799-529	Creativity Engineering Project I	S1S2	Int
3799-532	Creativity Engineering Project II B	A1A2	Int
3799-534	Creativity Engineering Project II D	A1A2	Int
3799-535	Creativity Engineering Project II E	A1A2	Int
3799-536	Creativity Engineering Project II F	A1A2	Int
3799-538	Creativity Engineering Project II H	A1A2	Int
3799-539	Creativity Engineering Project II I	A1A2	Int
3799-540	Creativity Engineering Project II J	A1A2	Int

3799-542	Creativity Engineering Project II L	A1A2	Int	
3799-543	Creativity Engineering Project II M	A1A2	Int	
3799-544	Creativity Engineering Project II N	A1A2	Int	
3799-545	Creativity Engineering Project II O	A1A2	Int	
3799-546	Creativity Engineering Project II P	A1A2	Int	
3799-559	Creativity Engineering Project II	A1A2	Int	
3799-822	World-leading Innovative Lectures in Life Science & Technology	Year-long	Int	
3799-823	Multidisciplinary Lecture Series in Life Science & Technology	S1S2		#
3799-824	WINGS-LST Course on Social Implementation	A1A2		#
3799-825	WINGS-LST Laboratory Practice	Year-long		
3799-826	WINGS-LST Laboratory Training	Year-long		
3799-827	WINGS-LST Seminars	Year-long		
3799-828	WINGS-LST Advanced Training	Year-long		
3799-980	Urban Redesign Study Colloquium	Year-long	Int	

Department of Civil Engineering（社会基盤学専攻）				
3713-002	Modeling of Concrete Performance	S1S2		
3713-005	Wind Engineering and Structures	S 1		
3713-014	Advanced Hydrology	S 1		
3713-020	Advanced Transportation Engineering	A 2		
3713-021	Infrastructure Management	S1S2		
3713-026	Urban Disaster Mitigation Engineering	A1A2		
3713-033	Computational Earthquake Engineering	A 2		
3713-034	Nonlinear Analysis in Civil Engineering	A 1		
3713-045	Projects in Developing Countries	A 2	Int	
3713-046	Frontier of Civil Engineering II	A 1		
3713-051	International English for Civil Engineers I	S1S2		
3713-052	International English for Civil Engineers II	A1A2		
3713-065-1	Japanese for Civil Engineers	Year-long	Int 2	#
3713-065-2	Japanese for Civil Engineers	Year-long	Int 2	#
3713-069	Economics for Civil Engineers	A 1		
3713-070	Empirical Analysis for Infrastructure Project/Policy Evaluation	S 2		
3713-074	Flood Disaster Simulation	S1S2		
3713-080	Geographic Information Systems	S 1		
3713-082	Earthquake and Geo-disaster Mitigation Engineering	A1A2		
3713-086	Urban Redesign Studio	S1S2		
3713-089	Remote sensing E	A 1		
3713-090	Photogrammetry and Pattern Recognition E	S 1		
3713-091	Advanced Geotechnical Engineering E	S 1		
3713-092	Principles of Geotechnical Engineering E	A1A2		
3713-094	Advanced Coastal Engineering E	S 2		
3713-095	Sediment transport in hydrosphere E	A1A2		
3713-096	Hydrospheric Science Project E	S1S2		
3713-097	Transportation and urban design studio E	A 1		
3713-099	Wind Power Engineering E	S 1		
3713-100	Civil Engineering Special Seminar	Year-long	Int	
3713-101	Individual Research for Master of Engineering Thesis	Year-long	Int	
3713-102	Civil Engineering Special Lecture	Year-long	Int	
3713-103	Advanced Topics in Civil Engineering I	S1S2	Int	
3713-109	Internship in Civil Engineering	Year-long	Int	
3713-110	Civil Engineering Seminar I	Year-long	Int	
3713-111	Civil Engineering Seminar II	Year-long	Int	
3713-112	Individual Research for Doctoral Dissertation I	Year-long	Int	
3713-113	Individual Research for Doctoral Dissertation II	Year-long	Int	

3713-114	Individual Research for Doctoral Dissertation III	Year-long	Int	
3713-115	International practice for management of built environment	Year-long	Int	
3713-116	Coastal Hydrodynamics	S 1		
3713-117	Urban Redesign Study Colloquium	Year-long	Int	
3713-118	Case Studies of International Projects	S 2		
3713-120	Innovations in Civil Engineering	S 1		
3713-122	Structural Dynamics	A 1		#
3713-123	Advanced Structural Dynamics	A 2		#
3713-126	Urban Studies in the Post-Pandemic Era	A 1		
3713-129	Designing infrastructure projects in developing countries	A 2	Int	
3713-130	Project Finance	A1A2		
3713-131-1	Japanese for Civil Engineers (Beginner Ⅱ)	S1S2	Int 2	#
3713-131-2	Japanese for Civil Engineers (Beginner Ⅱ)	A1A2	Int 2	#
3713-134	River Basin Management	A 1		
3713-135	Design and maintenance of reinforced concrete structures	A 1		
3713-136	Durability Design and Construction of Concrete Structure	S 1		
3713-137	Nonlinear Mechanics of Reinforced Concrete	A 2		

Department of Architecture（建築学専攻）

3714-045	Research in Architecture IA	S1S2	Int	#
3714-046	Research in Architecture IB	A1A2	Int	#
3714-047	Research in Architecture IIA	S1S2	Int	#
3714-048	Research in Architecture IIB	A1A2	Int	#
3714-049	Individual Research in Architecture IA	S1S2	Int	#
3714-050	Individual Research in Architecture IB	A1A2	Int	#
3714-071	Timber Structures	A 1		
3714-085	Shell and Large Span Structures	S1S2		
3714-090	Research in Architecture IIIA	S1S2	Int	#
3714-091	Research in Architecture IIIB	A1A2	Int	#
3714-092	Research in Architecture IVA	S1S2	Int	#
3714-093	Research in Architecture IVB	A1A2	Int	#
3714-094	Research in Architecture VA	S1S2	Int	#
3714-095	Research in Architecture VB	A1A2	Int	#
3714-096	Individual Research in Architecture IIA	S1S2	Int	#
3714-097	Individual Research in Architecture IIB	A1A2	Int	#
3714-098	Architecture and Cities in Japan 1	S1S2		
3714-099	Architecture and Cities in Japan 2	A1A2		
3714-105	Mechanical and Electrical Systems in Buildings	S 1		
3714-108	Internship 1	Year-long	Int	
3714-109	Internship 2	Year-long	Int	
3714-113	Special Seminar for Architectural Practice Ⅰ	S1S2	Int	
3714-114	Special Seminar for Architectural Practice Ⅱ	A1A2	Int	
3714-118	Architectural Ethics 2	A1A2		
3714-124	Building Materials	S 2		
3714-130	Architectural Design ⅠA	S1S2	Int	
3714-131	Architectural Design ⅠB	A1A2	Int	
3714-132	Architectural Design ⅡA	S1S2	Int	
3714-133	Architectural Design ⅡB	A1A2	Int	
3714-136	Urban Redesign Studio	S1S2		
3714-138	Urban Redesign Study Colloquium	Year-long	Int	
3714-145	Building Environmental Control	A1A2		
3714-146	Architectural Geometry	A1A2		
3714-149	Theory of Curved Surfaces	S1S2		
3714-151	Building Informatics	A1A2		

3714-152	DLX Design Thinking	S1S2		
3714-158	DLX Project Prototyping	A1A2	Int	
3714-160	Research Methods in Architecture	A1A2		
3714-161	Disaster Risk Management of Engineering Systems	S1S2		
3714-162	DLX Introduction to Media Design	A1A2		
3714-170	Urban Studies in the Post-Pandemic Era	A 1		
3714-171	Seminar on Data Driven Space Design for Co-Creation	Year-long	Int	

Department of Urban Engineering（都市工学専攻）				
3716-037	Advanced Course in Environmental Engineering Laboratory	A 1	Int	
3716-043	Environmental Systems Analysis	A 1		
3716-045	Advanced Water Quality Engineering	S 1		
3716-052	Advanced Exercises in City Planning IA	S1S2	Int	
3716-053	Advanced Exercises in City Planning IB	A1A2	Int	
3716-054	Advanced Exercises in City Planning IIA	A1A2	Int	
3716-055	Advanced Exercises in City Planning IIB	S1S2	Int	
3716-056	Advanced Exercises in Environmental Engineering IA	S1S2	Int	
3716-057	Advanced Exercises in Environmental Engineering IB	A1A2	Int	
3716-058	Advanced Exercises in Environmental Engineering IIA	A1A2	Int	
3716-059	Advanced Exercises in Environmental Engineering IIB	S1S2	Int	
3716-060	Advanced Exercises in City Planning IIIA	S1S2	Int	
3716-061	Advanced Exercises in City Planning IIIB	A1A2	Int	
3716-062	Advanced Exercises in City Planning IVA	A1A2	Int	
3716-063	Advanced Exercises in City Planning IVB	S1S2	Int	
3716-064	Advanced Exercises in Environmental Engineering IIIA	S1S2	Int	
3716-065	Advanced Exercises in Environmental Engineering IIIB	A1A2	Int	
3716-066	Advanced Exercises in Environmental Engineering IVA	A1A2	Int	
3716-067	Advanced Exercises in Environmental Engineering IVB	S1S2	Int	
3716-068	Studies in City Planning IA	Year-long	Int	
3716-069	Studies in City Planning IB	Year-long	Int	
3716-070	Studies in City Planning IIA	Year-long	Int	
3716-071	Studies in City Planning IIB	Year-long	Int	
3716-072	Studies in City Planning IIIA	Year-long	Int	
3716-073	Studies in City Planning IIIB	Year-long	Int	
3716-074	Studies in Environmental Engineering IA	Year-long	Int	
3716-075	Studies in Environmental Engineering IB	Year-long	Int	
3716-076	Studies in Environmental Engineering IIA	Year-long	Int	
3716-077	Studies in Environmental Engineering IIB	Year-long	Int	
3716-078	Studies in Environmental Engineering IIIA	Year-long	Int	
3716-079	Studies in Environmental Engineering IIIB	Year-long	Int	
3716-091	Environmental Reaction Kinetics	A 2		
3716-094	Fundamentals of Water Pollution Control	A 2		
3716-116	Urban Water Systems	S1S2		
3716-117	Management of Global and Urban Environment	A1A2		
3716-119	Appropriate Technology for Environmental Sanitation II	S 2		
3716-132	Environmental Field Exercise I (E)	Year-long	Int	#
3716-133	Environmental Field Exercise II (E)	Year-long	Int	#
3716-134	Environmental Field Exercise III (E)	Year-long	Int	#
3716-135	Environmental Field Exercise IV (E)	Year-long	Int	#
3716-137	Global Urban Planning E	S1S2		
3716-143	Urban Redesign Study Colloquium	Year-long	Int	
3716-151	Advanced Course in City Planning III	S1S2		
3716-152	Urban Redesign Studio	S1S2		
3716-160	Basic I Integrated Japanese of Urban Engineering A	S1S2	Int	

3716-161	Basic I Integrated Japanese of Urban Engineering B	A1A2	Int	
3716-162	Basic II Integrated Japanese of Urban Engineering A	S1S2	Int	
3716-163	Basic II Integrated Japanese of Urban Engineering B	A1A2	Int	
3716-168	Advanced Lecture in Landscape Planning(E)	S1S2		
3716-169	Forefronts of Urban environmental Projects(E)	S 1		
3716-170	Urban Studies in the Post-Pandemic Era	A 1		
3717-002	Special Studies and Seminar in Urban Engineering IA	S1S2	Int	
3717-003	Special Studies and Seminar in Urban Engineering IB	A1A2	Int	
3717-004	Special Studies and Seminar in Urban Engineering IIA	A1A2	Int	
3717-005	Special Studies and Seminar in Urban Engineering IIB	S1S2	Int	
3717-006	Special Studies and Seminar in Urban Engineering IIIA	S1S2	Int	
3717-007	Special Studies and Seminar in Urban Engineering IIIB	A1A2	Int	
3717-008	Special Studies and Seminar in Urban Engineering IVA	A1A2	Int	
3717-009	Special Studies and Seminar in Urban Engineering IVB	S1S2	Int	
3717-016	Studio Work in Urban Development 1	S 1	Int	
3717-017	Studio Work in Urban Development 2	S 2	Int	
3717-018	Studio Work in Urban Development 3	A 1	Int	
3717-019	Studio Work in Urban Development 4	A 2	Int	
3717-020	Urban Transport Policy	A 1		
3717-021	Urban Transport Planning and Analysis	A 2		
3717-024	Hazardous Waste Management	A 2		
3717-025	Environmental Risk Management	S 1		
3717-030	Residential Environment	S 1		
3717-031	Regional Planning	A 1		
3717-032	Urban Development Policy and Planning	A 2		
3717-041	Systems and Tools toward a Sound Material-cycle Society	S 2		
3717-043	Advanced Course in Health-related Water Microbiology	A 1		
3717-044	Advanced Course in Environmental Microbiology	A1A2		
3718-015	Advanced Course in Urban Environmental Planning VII	S 1		

Department of Mechanical Engineering（機械工学専攻）				
3722-060	Molecular Thermo-Fluid Engineering	S 1		
3722-101	Applied Mathematics for Mechanical Engineering	S 1		
3722-107	Solid Mechanics Seminar	A 2		
3722-113	Computational Methods for Fluid Flows and Thermal Systems	A1A2		
3722-114	Active Vibration Control	A1A2		
3722-116	Long-term internship	Year-long	Int	
3722-118	Basic Theory of Extended Nano Space	A1A2		#
3722-119	Nano/Micro Energy Systems	A1A2		#
3722-134	Engineering Competency Ⅰ -Project Based Learning-	A1A2		
3722-136	Engineering Competency III -Summer Camp-	S1S2	Int	
3722-139	Engineering Literacy III -Advanced Academic Presentation-	Year-long	Int	
3722-149	Distributed Energy System - Modeling and Design	S1S2		
3722-151	Advanced Lectures on Mechanical Engineering VI	Year-long	Int	
3722-157	Advanced Thermodynamics	S1S2		
3722-158	Advanced Heat and Mass Tranfer	A1A2		
3722-159	Advanced Fluids Engineering 1	S1S2		
3722-160	Advanced Fluids Engineering 2	A1A2		
3722-161	Nanotechnology	A1A2		
3722-162	Advanced MEMS and Microsystem	A1A2		
3722-165	Numerical Methods in Mechanical Engineering	S 2		
3724-052	The Practice of Machine Design	A1A2		
3724-080	Information and Measurement	S 1		

Department of Precision Engineering（精密工学専攻）				
3729-041	Nano-Micro Mecanical Systems	A1A2		
3729-045	Practice in International Workshop on Precision Engineering	Year-long	Int	
3729-046	Advanced Practice of Precision Engineering M	Year-long	Int	#
3729-047	Advanced Practice of Precision Engineering D1	Year-long	Int	#
3729-048	Advanced Practice of Precision Engineering D2	Year-long	Int	#
3729-049	Special Seminar of Precision Engineering M	Year-long	Int	#
3729-050	Special Seminar of Precision Engineering D	Year-long	Int	#
3729-069	Special Lecture on Decommissioning and Dismantling	A1A2		
3729-080	Scientific Writing and Presentation Skills	S 1		
3729-083	DLX Design Thinking	S1S2		
3729-096	DLX Introduction to Media Design	A1A2		

Department of Systems Innovation（システム創成学専攻）				
3736-033-1	System Innovation Project 1(J/E)	S1S2	Int	
3736-033-2	System Innovation Project 1(J/E)	A1A2	Int	
3736-038-1	System Innovation Project 6(J/E)	S1S2	Int	
3736-038-2	System Innovation Project 6(J/E)	A1A2	Int	
3736-041-1	Advanced Seminar on System Innovation 1	S1S2	Int	#
3736-041-2	Advanced Seminar on System Innovation 1	A1A2	Int	#
3736-047	System Innovation Project 4A(J/E)	Year-long	Int	
3736-048	System Innovation Project 4B(J/E)	Year-long	Int	
3736-051-1	Advanced Seminar on System Innovation 2A(J/E)	S1S2	Int	#
3736-051-2	Advanced Seminar on System Innovation 2A(J/E)	A1A2	Int	#
3736-052-1	Advanced Seminar on System Innovation 2B(J/E)	S1S2	Int	#
3736-052-2	Advanced Seminar on System Innovation 2B(J/E)	A1A2	Int	#
3736-053-1	System Innovation Project 2(J/E)	S1S2	Int	
3736-053-2	System Innovation Project 2(J/E)	A1A2	Int	
3736-054	System Innovation Project 3(J/E)	Year-long	Int	
3736-055-1	System Innovation Project 4C(J/E)	Year-long		
3736-107	Global Environmental and Energy Policy	A 2		
3736-116	Advanced Simulation Technology	A1A2		
3736-131	Cognitive Society Design	A 1		
3736-137	Simulation Technologies for Complicated/Complex Phenomena	S 1		
3736-140	Computational Complex Analysis	A 2		
3736-145	Resources and environments on solid bodies in the solar system	S1S2		
3736-146	Introduction to statistical physics for social and economic systems	S 1		
3736-149	Global Logistics	A1A2		
3736-152	Science of Data Design and Ecosystems	S 2		

Department of Aeronautics and Astronautics（航空宇宙工学専攻）				
3734-002	Aerodynamic Design of Aircraft	A1A2		
3734-035	Applied Fracture Mechanics	S1S2		
3734-079	Propulsion and Energy Systems	A1A2		
3734-115	Introduction to innovative structural design	A1A2		

Department of Electrical Engineering and Information Systems（電気系工学専攻）				
3747-014	Electrical Engineering for Transport System	A1A2		
3747-018	System and Control Theory	S1S2		
3747-035	Solid State Electronics I	S1S2		
3747-046	Fundamentals of Semiconductor Devices	A1A2		
3747-049	Integrated Photonics	S 1		
3747-087	Special Lecture on Frontier Informatics IV	A1A2		

3747-092	Frontier Engineering for Power Equipment	A1A2		
3747-095	D2T special lecture II	A1A2		
3747-106	Cognitive Multi-Media Processing	A1A2		
3747-110	Multithreaded Parallel Computing	S1S2		
3747-117	Quantum theory of light and light-matter interaction	A1A2		
3747-118	Fundamentals of Optics and Photonics	A1A2		
3747-120	Bioimaging and biomagnetics	S1S2		
3747-505	Advanced Study on Frontier Informatics I	Year-long	Int	
3747-512	Advanced Study on Frontier Informatics II	Year-long	Int	
3747-513	Frontier Informatics Master Course Seminar I	Year-long		
3747-514	Frontier Informatics Master Course Seminar II	Year-long		
3747-515	Frontier Informatics Doctor Course Seminar I	Year-long		
3747-516	Frontier Informatics Doctor Course Seminar II	Year-long		
3747-517	Frontier Informatics Doctor Course Seminar III	Year-long		

Department of Applied Physics（物理工学専攻）				
3752-047	Colloquium on Applied physics I	Year-long		
3752-048	Colloquium on Applied physics II	Year-long	Int	
3752-050	Experiments and Exercises in Applied Physics II	Year-long	Int	
3752-056	Condensed Matter Physics	A 1		
3752-068	Experiments and Exercises in Applied Physics I	Year-long	Int	
3752-071	Advanced Colloquium on Applied Physics	Year-long	Int	
3752-072	Advanced Laboratory and Exercises in Applied Physics I	Year-long	Int	
3752-073	Advanced Laboratory and Exercises in Applied Physics II	Year-long	Int	
3752-083	Quantum Mechanics	S1S2		
3752-085	Computational Physics	S1S2		
3752-091	Computational Science for Many-Body Problems	S1S2		
3752-094	Data Compression in Computational Science and Quantum Computing	A1A2		

Department of Materials Engineering（マテリアル工学専攻）				
3765-003	Advanced Lecture on Solid State Physics	S1S2		
3765-005	Advanced Lecture on Materials Chemistry I	A1A2		
3765-041	Advanced Materials Engineering I	A1A2		
3765-042	Advanced Materials Engineering II	S1S2		
3765-061	Advanced Lecture and Exercise on Thermodynamics	A1A2		
3765-062	Advanced Lecture and Exercise on Transport Phenomena	S1S2		
3765-063	Advanced Lecture and Exercise on Elasticity	A1A2		
3765-064	Advanced Lecture and Exercise on Structural Analyses	S1S2		
3765-102	Advanced Lecture on Biosensing Materials	S 1		
3765-103	Advanced Lecture on Soft Materials	A 1		
3765-111	Advanced Lecture on Structural Physics	A 2		
3765-112	Advanced Lecture on Material Nondestructive Evaluation	S 1		
3765-122	Advanced Lecture on Device Process Engineering	S 1		
3765-128	Advanced Lecture on High Temperature Production and Recycling Pr	A 1		
3765-140	Advanced Lecture on Material Modeling	S 2		
3765-147	Advanced Lecture on Medical Technologies	S 1		
3765-153	Advanced Lecture on Materials Electrochemistry	S 2		
3765-160	Advanced Lecture on Solid-State Electronic Devices	S 1		
3765-164	Advanced Lecture on Steel Manufacturing Process	S 1		

Department of Applied Chemistry（応用化学専攻）				
3771-031	Advanced Lectures on Applied Chemistry I	A1A2	Int	
3771-076	Organic Chemistry: Structure, Reaction, and Synthesis IV	A 1		

Department of Chemical System Engineering（化学システム工学専攻）				
3773-044	Advanced Chemical Reaction Engineering	S1S2		
3773-068	Selected Topics in Chemical System Design	Year-long	Int	
3773-107	Process Systems Development	S 2		
3773-119	Reaction Systems Engineering Ⅰ	S1S2		
3773-121	Material Systems Engineering I	S1S2		
3773-123	Chemical Systems Management	A1A2		
3773-125	Multiscale Biosystems Engineering	A1A2		
3773-127	Reaction Systems Engineering Ⅲ	A1A2		
3773-169	Chemical Technology and Practices 5	S1S2		

Department of Chemistry and Biotechnology（化学生命工学専攻）				
3775-037	Special Topics in Chemistry and Biotechnology IV	A1A2	Int	
3775-038	Special Topics in Chemistry and Biotechnology V	A1A2	Int	
3775-039	Special Topics in Chemistry and Biotechnology VI	A1A2	Int	
3775-103	Structures Analysis	S1S2		
3775-105	Basics for Functional Chemistry II	S 1		
3775-109	Organic Chemistry: Structure, Reaction, and Synthesis IV	A 1		
3775-111	Polymer and Functional Materials Chemistry II	A 1		
3775-115	Molecular Biochemistry II	A 1		

Department of Advanced Interdisciplinary Studies（先端学際工学専攻）				
3787-005	Lectures on Advanced Research Strategy and Social Systems	A1A2		
3787-006	Lectures on Advanced Materials and Devices	A1A2		
3787-007	Lectures on Advanced Information System	S1S2		
3787-008	Lectures on Advanced Life Science	S1S2		
3788-034	University Entrepreneurship	A1A2		
3788-042	Leadership-talent growth program(I)-Proposal-	Year-long	Int	
3788-043	Leadership-talent growth program(II)-English in Advanced Science and Technology-	A1A2	Int	
3788-049	Advanced Environmental Science and Energetics	A1A2		
3788-060	Environmental Science Ⅱ	A1A2		
3788-062	Energy Science Ⅱ	A1A2		
3788-074	Special Lectures on Advanced Generic Technology	A1A2		
3788-076	Needs-Inspired Invention and Entrepreneurship	S1S2		
3788-080	Fundamentals of Advanced Life Science	A1A2		
3788-086	Economics of Innovation Policy and Management	A1A2		

Department of Nuclear Engineering and Management（原子力国際専攻）				
3789-032	Nuclear Reactor Theory and Radiation Physics	S 1		
3789-033	Nuclear Thermal-hydraulics and Structural Mechanics	S 1		
3789-034	Overview of Energy Systems	S 2		
3789-035	Social Science Essentials	S 1		
3789-036	Chemistry in Nuclear Engineering	S 2		
3789-037	Radiation Biology	S 1		
3789-038	Fundamentals in Nuclear Physics	S 1		
3789-039	Nuclear Safety Engineering	A1A2		
3789-041	Radiation Safety	S1S2		
3789-043	Nuclear Nonproliferation and Security	A1A2		
3789-045	Nuclear Plant Engineering	A1A2		
3789-046	Applied Radiation Engineering	A1A2		
3789-047	Management of Spent Fuel and Radioactive Waste	A1A2		

3789-048	Advanced Radiation Measurements	S1S2		
3789-056	Severe Accident (Advanced)	A1A2		
3789-057	Advanced Lecture on Simulation Science	A1A2		
3789-058	Advanced Lecture on Nuclear Fuel Cycle	S1S2		
3789-059	Introduction to Nuclear Engineering	A1A2		
3789-060	Special Lecture on Decommissioning and Dismantling	A1A2		
3789-072	Advanced Nuclear Engineering Seminar III	A1A2		
3789-073	Colloquiums on Nuclear Engineering and Management I	S1S2	Int	
3789-074	Colloquiums on Nuclear Engineering and Management II	A1A2	Int	
3789-075	Workshop on Nuclear Engineering and Management	S1S2	Int	
3789-090	Nuclear Engineering Master's Course Seminar 1	S1S2		
3789-091	Nuclear Engineering Master's Course Seminar 2	A1A2		
3789-092	Nuclear Engineering Master's Course Seminar 3	S1S2		
3789-093	Nuclear Engineering Master's Course Seminar 4	A1A2		
3789-094	Nuclear Engineering Doctoral Course Seminar 1	S1S2		
3789-095	Nuclear Engineering Doctoral Course Seminar 2	A1A2		
3789-096	Nuclear Engineering Doctoral Course Seminar 3	S1S2		
3789-097	Nuclear Engineering Doctoral Course Seminar 4	A1A2		
3789-098	Nuclear Engineering Doctoral Course Seminar 5	S1S2		
3789-099	Nuclear Engineering Doctoral Course Seminar 6	A1A2		
3789-105	Nuclear Engineering Master's Course Exercise 1	S1S2		
3789-106	Nuclear Engineering Master's Course Exercise 2	A1A2		
3789-107	Nuclear Engineering Master's Course Exercise 3	Year-long		
3789-108	Nuclear Risk Management	S1S2		
3789-113	Nuclear Engineering Doctor's Course Exercise 1	S1S2		
3789-114	Nuclear Engineering Doctor's Course Exercise 2	S1S2		
3789-115	Nuclear Engineering Doctor's Course Exercise 3	S1S2		
3789-116	Nuclear Engineering Doctor's Course Exercise 4	A1A2		
3789-117	Nuclear Engineering Doctor's Course Exercise 5	A1A2		
3789-118	Nuclear Engineering Doctor's Course Exercise 6	A1A2		
3789-119	Advanced Nuclear Engineering Seminar 3A	A1A2		
3789-120	Advanced Nuclear Engineering Seminar 3B	A1A2		
3789-121	Advanced Nuclear Engineering Seminar 3C	A1A2		
3789-122	Management and Maintenance Engineering for Nuclear Systems E	S1S2		
3789-123	Materials and Fuels in Nuclear Systems E	A1A2		

Department of Bioengineering（バイオエンジニアリング専攻）				
3791-011	Protein Engineering	S1S2		
3791-029	Human Anatomy	S 1	Int	
3791-030	Human Physiology	S 1	Int	
3791-031	Human Pathology	S 1	Int	
3791-032	Overview on Clinical Medicine	S 1	Int	
3791-038	Biosensor Engineering	S1S2		
3791-108	Advanced Biomaterials	A 2		
3791-113	Radiation Biology	S 1		
3791-115	Advanced Biodevices	A1A2		
3791-116	Bioengineering exercise for social implementation 1	A1A2		
3791-117	Bioengineering exercise for social implementation 2	A1A2		
3791-121	Basic Bioelectronics	S 1		
3791-122	Overview of Bioelectronics	S 2		
3791-125	Basic Biology	A1A2		
3791-126	Overview of Chemical Bioengineering	S1S2		
3791-127	Multiscale Biosystems Engineering	A1A2		
3791-205	Overview of Biomaterials 1	S1S2		

3791-211	Overview of Mechano bioengineering 2	S1S2		
3791-216	Overview of Bioimaging 2	S1S2		
3791-521	Bioengineering Seminar 1(A)	S1S2		
3791-522	Bioengineering Seminar 1(B)	A1A2		
3791-523	Bioengineering Seminar 2(A)	S1S2		
3791-524	Bioengineering Seminar 2(B)	A1A2		
3791-601	Bioengineering Seminar 3(A)	S1S2		
3791-602	Bioengineering Seminar 3(B)	A1A2		
3791-603	Presentation and writing in bioengineering	A1A2		

Department of Technology Management for Innovation（技術経営戦略学専攻）				
3792-104	Technology Management and Product Development	S1S2		
3792-129	Risk Management	A1A2		
3792-130	Innovation and Entrepreneurship	A1A2		
3792-131	International Intellectual Property Management	A1A2		
3792-140	Resilience Informatics for Innovation	A1A2		
3792-141	Global Business Strategy and Policy	A 1		
3792-142	Quantitative Methods for Management and Policy Analysis	S 1		
3792-146	Science, Technology and Public Policy	A 1		
3792-147	Science, Technology, and Innovation Policy	A1A2		
3792-150	Advanced Technology Management	A1A2		
3792-164	Empirical Methods in Applied Economics	S1S2		
3792-166	Global Logistics	A1A2		
3792-171	Economics of Innovation Policy and Management	A1A2		
3792-175	Industrial Ecology and Input-output Analysis	S1S2		
3792-520	Projects VI	Year-long	Int	

Undergraduate Program

Int-Intensive, NAE*: Not Available for Exchange Student

General Subject（共通）				
FEN-CO4003S2	Academic Writing	S 1		
FEN-CO4004S2	Academic Writing	S 1		
FEN-CO4005S2	Academic Presentation	S 2		
FEN-CO4006S2	Academic Presentation	S 2		
FEN-CO3913S3	International Collaborative Practice S III	S1S2	Int	
FEN-CO3943S3	International Collaborative Practice A III	A1A2	Int	
FEN-CO3944S3	International Collaborative Practice A IV	S 2		
FEN-CO3945S3	International Collaborative Practice A V	A1A2	Int	
FEN-CO3946S3	International Collaborative Practice A VI	A1A2	Int	
FEN-CO3995P3	International Collaborative PracticeVI	A1A2	Int	
FEN-CO3007S2	Workshop towards communicating engineers	S1S2		
FEN-CO3008S2	Workshop towards communicating engineers	S1S2		
FEN-CO4450L3	Visualizing Japan in the Modern World	A1A2	Int	
FEN-CO3g02P2	Creativity Engineering Project for UnderGraduate IB	S1S2	Int	
FEN-CO3g04P2	Creativity Engineering Project for UnderGraduate ID	S1S2	Int	
FEN-CO3g05P2	Creativity Engineering Project for UnderGraduate IE	S1S2	Int	
FEN-CO3g06P2	Creativity Engineering Project for UnderGraduate IF	S1S2	Int	
FEN-CO3g09P2	Creativity Engineering Project for UnderGraduate II	S1S2	Int	
FEN-CO3g11P2	Creativity Engineering Project for UnderGraduate IK	S1S2	Int	
FEN-CO3g12P2	Creativity Engineering Project for UnderGraduate IL	S1S2	Int	
FEN-CO3g14P2	Creativity Engineering Project for UnderGraduate IN	S1S2	Int	
FEN-CO3g15P2	Creativity Engineering Project for UnderGraduate IO	S1S2	Int	

FEN-CO3g16P2	Creativity Engineering Project for UnderGraduate IP	S1S2	Int	
FEN-CO3g29P2	Creativity Engineering Project for UnderGraduate I	S1S2	Int	
FEN-CO3g31P2	Creativity Engineering Project for UnderGraduate II A	S1S2	Int	
FEN-CO3g32P2	Creativity Engineering Project for UnderGraduate II B	S1S2	Int	
FEN-CO3g34P2	Creativity Engineering Project for UnderGraduate II D	S1S2	Int	
FEN-CO3g35P2	Creativity Engineering Project for UnderGraduate II E	S1S2	Int	
FEN-CO3g36P2	Creativity Engineering Project for UnderGraduate II F	S1S2	Int	
FEN-CO3g38P2	Creativity Engineering Project for UnderGraduate II H	S1S2	Int	
FEN-CO3g39P2	Creativity Engineering Project for UnderGraduate II I	S1S2	Int	
FEN-CO3g40P2	Creativity Engineering Project for UnderGraduate II J	S1S2	Int	
FEN-CO3g42P2	Creativity Engineering Project for UnderGraduate II L	S1S2	Int	
FEN-CO3g43P2	Creativity Engineering Project for UnderGraduate II M	S1S2	Int	
FEN-CO3g44P2	Creativity Engineering Project for UnderGraduate II N	S1S2	Int	
FEN-CO3g45P2	Creativity Engineering Project for UnderGraduate II O	S1S2	Int	
FEN-CO3g46P2	Creativity Engineering Project for UnderGraduate II P	S1S2	Int	
FEN-CO3g59P2	Creativity Engineering Project for UnderGraduate II	S1S2	Int	
FEN-CO4g62P2	Creativity Engineering Project for UnderGraduate III B	S1S2	Int	
FEN-CO4g64P2	Creativity Engineering Project for UnderGraduate III D	S1S2	Int	
FEN-CO4g65P2	Creativity Engineering Project for UnderGraduate III E	S1S2	Int	
FEN-CO4g66P2	Creativity Engineering Project for UnderGraduate III F	S1S2	Int	
FEN-CO4g69P2	Creativity Engineering Project for UnderGraduate III I	S1S2	Int	
FEN-CO4g71P2	Creativity Engineering Project for UnderGraduate III K	S1S2	Int	
FEN-CO4g72P2	Creativity Engineering Project for UnderGraduate III L	S1S2	Int	
FEN-CO4g74P2	Creativity Engineering Project for UnderGraduate III N	S1S2	Int	
FEN-CO4g75P2	Creativity Engineering Project for UnderGraduate III O	S1S2	Int	
FEN-CO4g76P2	Creativity Engineering Project for UnderGraduate III P	S1S2	Int	
FEN-CO4g89P2	Creativity Engineering Project for UnderGraduate III	S1S2	Int	
FEN-CO5962L2	International Collaborators' Lecture on Engineering II	S 2	Int	
FEN-CO5963L2	International Collaborators' Lecture on Engineering III	A1A2	Int	
FEN-CO5965L2	International Collaborators' Lecture on Engineering V	S 2	Int	

Department of Civil Engineering（社会基盤学科）				
FEN-CE4001L3	Basic International Communication I	S1S2		
FEN-CE4002L3	Basic International Communication II	A1A2		
FEN-CE4m17T2	Independent Project	S1S2	Int	
FEN-CE4m18T2	Civil Engineering Project	Year-long	Int	NAE*
FEN-CE5409L3	Project Finance	A1A2		
FEN-CE5410L3	Economics for Civil Engineers	A1A2		
FEN-CE5a13L3	Advanced Geotechnical Engineering	S 1		
FEN-CE5a14L3	Wind Engineering and Structures	S 1		
FEN-CE5a18L3	Computational Earthquake Engineering	A 2		
FEN-CE5a19L3	Structural Dynamics	A 1		
FEN-CE5m34L3	Case Studies of International Projects	S 2		
FEN-CE5m41L3	Projects in Developing Countries	A1A2	Int	
FEN-CE5m42L3	Innovations in Civil Engineering	S 1		

Department of Architecture（建築学科）				
FEN-AR3q08L1	Applied Plasticity for Buildings	S 1		
FEN-AR3s04S1	Exercises in Building Materials	S1S2		
FEN-AR3v05L1	Introduction to Architectural Informatics	A1A2		

Department of Urban Engineering（都市工学科）				
FEN-UE2m07L1	Introduction to Landscape Planning	A1A2		

FEN-UE3908S1	Exercises in Urban Engineering B-1	S1S2		
FEN-UE3913S2	Global seminar on urban engineering 1	S 1		
FEN-UE3914S2	Global seminar on urban engineering 2	A 1		
FEN-UE4919T2	Graduation Thesis, Urban Engineering	A1A2	Int	NAE*

Department of Mechanical Engineering（機械工学科）				
FEN-MX3905S2	Seminar of Mechanical Engineering in English	A1A2		
FEN-MX3b30L3	Robotics I	S 1		
FEN-MX3b31L3	Robotics II	S 2		
FEN-MX4910L3	Mechanical Engineering Seminar I	A1A2	Int	
FEN-MX4911L3	Mechanical Engineering Seminar II	A1A2	Int	
FEN-MX5604L3	Information and Measurement	S 1		
FEN-MX5b23L3	Applied Mathematics for Mechanical Engineering	S 1		
FEN-MX5b32L1	Medical Engineering	S1S2		
FEN-MX5d10L3	Numerical Methods in Mechanical Engineering	S 2		

Department of Aeronautics and Astronautics（航空宇宙工学科）				
FEN-AA3p07L1	Space Propulsion 1	A1A2		
FEN-AA4u82L2	Introduction to Aerospace System Engineering	S 1		
FEN-AA4u84L1	Special Lectures on Aeronautics and Astronautics	S1S2		

Department of Precision Engineering（精密工学科）				
FEN-PE3602L1	Measurement in Precision Engineering II	A1A2		
FEN-PE3903S2	Seminar and factory tour	A1A2		
FEN-PE4000S2	Presentation in English for Precision Engineering A	S1S2		
FEN-PE4001S2	Presentation in English for Precision Engineering B	S1S2		

Information and Communication Engineering,Electrical and Electronic Engineering(電子情報工学科・電気電子工学科)				
FEN-EE4d19L1	Programming Languages	S1S2		

Department of Applied Physics（物理工学科）				
FEN-AM4244L2	Solid State Physics (4)	A 1		
FEN-AP3961S2	Seminar in Applied Physics 1	S1S2		
FEN-AP4970S2	Advanced Seminar in Applied Physics	S1S2		

Department of Mathematical Engineering and Information Physics（計数工学科）				
FEN-MP3910E1	Laboratory on Mathematical Engineering and Information Physics	S1S2		
FEN-MP3950E1	Information Physics and Computing Laboratory 1	A1A2		
FEN-MP4703S2	Seminar in Information Physics and Computing 1	S1S2		
FEN-MP4704S2	Seminar in Information Physics and Computing 2	A1A2		
FEN-MP4900T1	Graduation Thesis, Mathematical Engineering	A1A2	Int	NAE*
FEN-MP4940S2	Seminar in Mathematical Information Engineering	S1S2		
FEN-MP4951E1	Information Physics and Computing Laboratory 2	S1S2		

Department of Materials Engineering（マテリアル工学科）				
FEN-MA2914L3	UT-MIT International Lecture	A1A2	Int	
FEN-MA3902S3	Seminars for Materials Engineering	S1S2		
FEN-MA3e22L3	Introduction to Structural Materials	A2	Int	
FEN-MA3e23L3	Introduction to Semiconductor Materials	A2	Int	
FEN-MA3f02L3	Introduction to Nano-Biomaterials	A2	Int	
FEN-MA4913T2	Graduation Thesis in Materials Engineering	Year-long	Int	NAE*
FEN-MA4e24L3	Applied Composite Materials	S 1		

FEN-MA4e26L3	Applied Materials Science of Biodevices	S 1		
FEN-MA4e27L3	Applied Physical Metallurgy of Steel	S 1		
FEN-MA4e28L3	Applied Semiconductor Processes	S 1		
FEN-MA4f03L3	Applied Medical Material Science	S 1		

Department of Applied Chemistry（応用化学科）				
FEN-CA4991T2	Graduation Thesis, Applied Chemistry	Year-long	Int	NAE*

Department of Chemical System Engineering（化学システム工学科）				
FEN-CS3701L1	Process System Engineering I	S1S2		
FEN-CS3702L1	Process System Engineering II	A1A2		
FEN-CS3m04S2	Readings on Chemical Systems Engneering	A1A2		
FEN-CS4304L2	Chemical Reaction Engineering II	S1S2		
FEN-CS4991T2	Graduation Thesis, Chemical System Engineering	Year-long	Int	NAE*
FEN-CS4m03S1	Process Design and Practices	S1S2		

Department of Chemistry and Biotechnology（化学生命工学科）				
FEN-CB2001L3	Introductory lectures for chemistry and biotechnology	A1A2		
FEN-CB4991T2	Graduation Thesis, Chemistry and Biotechnology	Year-long	Int	NAE*
FEN-CH3321L1	Chemical Reaction and Kinetics II	A1A2		
FEN-CH3m03S1	Exercises in Computer Chemistry	S1S2		
FEN-CH3m07S1	Chemical Engineer and Exercises I	A1A2		
FEN-CH4324L1	Structures Analysis	S1S2		
FEN-CH4903S2	Experiments and Exercises in Chemistry and Life Science	S1S2	Int	
FEN-CH4904S2	Experiments and Exercises in Chemistry and Life Science 2	A1A2	Int	

Department of Systems Innovation（システム創成学科）				
FEN-SC3973Z9	International field trip project	S 2	Int	
FEN-SI3b41L3	Heat Transfer and Thermodynamics	A 1		
FEN-SI4502L3	Advanced Environment & Energy	S 2		
FEN-SI4n04L3	Energy Beam Applications and Quantum/Relativistic Mechanics	S1S2		
FEN-SI4n06L3	Nuclear Reactor Engineering	S 1		