

<2026> International Science and Technology Course,
Graduate School of Life and Medical Sciences
Subjects

Research Subjects (Compulsory Subjects)								
Major	Code	Class	Subject	Credits	Professor	Remarks	Semester	Day/Period
Biomedical Engineering and Biomedical Information	31425011	001	Research and Experiments in Biomedical Sciences and Informatics I (E)	2			Fall	Intensive
	31425012	001	Research and Experiments in Biomedical Sciences and Informatics II (E)	2			Spring	Intensive
	31425013	001	Research and Experiments in Biomedical Sciences and Informatics III (E)	2			Fall	Intensive
	31425014	001	Research and Experiments in Biomedical Sciences and Informatics IV (E)	2	HIRYU Shizuko	Available	Spring	Intensive
	31425011	101	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	HIRYU Shizuko	Available	Spring	Intensive
	31425011	102	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	AKIYAMA Iwaki	Available	Spring	Intensive
	31425011	103	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	KOBAYASHI Kota	Available	Spring	Intensive
	31425011	104	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	TAKAYANAGI Shinji	Available	Spring	Intensive
	31425012	101	Research and Experiments in Biomedical Sciences and Informatics II (E)	2			Fall	Intensive
	31425013	101	Research and Experiments in Biomedical Sciences and Informatics III (E)	2			Spring	Intensive
Medical Life Systems	31425014	101	Research and Experiments in Biomedical Sciences and Informatics IV (E)	2			Fall	Intensive
	31400099		Thesis	–		Available		
	31425005	001	Research and Experiments in Medical Life Systems I (E)	2			Fall	Intensive
	31425006	001	Research and Experiments in Medical Life Systems II (E)	2			Spring	Intensive
	31425007	001	Research and Experiments in Medical Life Systems III (E)	2			Fall	Intensive
	31425008	002	Research and Experiments in Medical Life Systems IV (E)	2	IWAISAKO Keiko	Available	Spring	Intensive
	31425005	101	Research and Experiments in Medical Life Systems I (E)	2			Spring	Intensive
	31425006	101	Research and Experiments in Medical Life Systems II (E)	2			Fall	Intensive
	31425007	101	Research and Experiments in Medical Life Systems III (E)	2			Spring	Intensive
	31425008	101	Research and Experiments in Medical Life Systems IV (E)	2			Fall	Intensive
	31400099		Thesis	–		Available		

Category I , Group A (Courses of Specialized Fields)								
Major	Code	Class	Subject	Credits	Professor	Remarks	Semester	Day/Period
Biomedical Engineering and Biomedical Information	31425106		Advanced Lectures in Ultrasonic Electronics (E)	2				Intensive
	31425107		Advanced Organic Chemistry (E)	2				Intensive
	31425108		Advanced Theory for Medical Imaging System (E)	2	AKIYAMA Iwaki	Available	Fall	Intensive
	31425109		Advanced Lectures in Evolutionary Computation (E)	2				Intensive
	31425114		Advanced Practice in Special Project A (E)	2				Intensive
	31425117		Advanced Physical Science of Life (E)	2				Intensive
	31425118		Advanced Biosensing Engineering (E)	2	HIRYU Shizuko	Available	Fall	Intensive
Medical Life Systems	31425119		Advanced Lectures in Applied Chemistry (E)	2	OE Yohei	Available	Fall	Intensive
	31425110		Advanced Lectures in Neuroanatomical and Neurophysiological Basis of Neurologic Diseases (E)	2	IKEGAWA Masaya MISONO Hiroaki	Available	Fall	Intensive
	31425111		Advanced Lectures in Systems Biological Sciences in Diseases (E)	2	KOBAYASHI Akira NISHIKAWA Keizo	Available	Spring	Intensive
	31425112		Advanced Lectures in History of Japanese Medicine (E)	2	IWAISAKO Keiko YONEI Yoshikazu	Available	Spring	Intensive
	31425113		Advanced Lectures in Molecular Pharmacology and Cellular Signaling (E)	2	NISHIKAWA Kiyotaka FUNAMOTO Satoru	Available	Spring	Intensive
	31425251		Advanced Lectures in Special Topics(E)	2				Intensive

Category II , Group A (Common Core Subjects)								
Major	Code	Class	Subject	Credits	Professor	Remarks	Semester	Day/Period
All	31425201	001	Biology (E)	2	IKEGAWA Masaya	Available	Fall	Fri／4
	31425201	002	Biology (E)	2				
	31425207		Neuroscience (E)	2	KOBAYASHI Kota	Available	Spring	Fri／2
	31405203		Electric Circuit Theory (E)	2	INOUE Kaoru TODA Hiroyuki KOYAMA Daisuke IBI Shinsuke	Available	Fall	Wed／2
	31405204		Nonlinear Physics (E)	2	TAKAOKA Masanori	Available	Spring	Mon／4
	31405205		Materials Chemistry (E)	2	NOMURA Akiko	Available	Spring	Wed／2
	31405206		Applied Mathematical Analysis (E)	2	YOSHIKAWA Hitoshi	Available	Fall	Thu／2
	31405210		Chemical Biology (E)	2	NOMURA Akiko	Available	Fall	Wed／2
	31405211		Advanced Distributed Systems (E)	2	KOITA Takahiro	Available	Spring	Fri／1

Group B (Common General Courses)								
Major	Code	Class	Subject	Credits	Professor	Remarks	Semester	Day/Period
All	31405301		Ethics for Scientists and Engineers (E)	2	PHILIP TROMOVITCH	Available	Spring	Thu／4
	31405302		Technology and Business Project Management (E)	2	SARATA Makoto	Available	Spring	Tue／3・4
	31405303	001	Science and Engineering Writing I (E)	2	PHILIP TROMOVITCH	Available	Spring	Wed／3
	31405303	002	Science and Engineering Writing I (E)	2	CAMILLE-FAITH PASCUA ROMERO	Available	Fall	Fri／3
	31425308	001	Science and Engineering Writing 2 (E)	2	PHILIP TROMOVITCH	Available	Spring	Thu／3
	31425308	002	Science and Engineering Writing 2 (E)	2				
	31405305		Presentation Skills for Scientists and Engineers (E)	1				
	31405306		R & D Planning for Scientists and Engineers (E)	2	CAMILLE-FAITH PASCUA ROMERO	Available	Fall	Thu／2
	31405307		Japanese Corporate Culture (E)	2	SARATA Makoto	Available	Fall	Tue／3・4

Open class(Graduate School of Science and Engineering)								
Major	Code	Class	Subject	Credits	Professor	Remarks	Semester	Day/Period
Science and Engineering	31610040		Advanced Nature-Inspired Computing	2	IVAN TANEV	Available	Fall	Thu／2

CREDIT REQUIREMENT
Students are required to earn a certain amount of credits from each category as follows;

		Credit Requirement
Compulsory Subjects	Research and Experiments in Biomedical Sciences and Informatics I ~ IV or Research and Experiments in Medical Life Systems I ~ IV	8
Elective Subjects	Category I , Group A	8 or more *All credits from other courses are counted in this category.
	Category II , Group A	6 or more (counted up to 8 as credits)
	Group B	4 or more (counted up to 6 as credits)
	SUBTOTAL of CREDITS	22 or more
GRAND TOTAL of CREDITS		30 or more + Thesis ※Students are required to submit thesis to complete the program.