

**<2024> 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		Available	Fall	Intensive
	31425012	001	Research and Experiments in Biomedical Sciences and Informatics II (E)	2	KOBAYASHI Kota	Available	Spring	Intensive
	31425012	002	Research and Experiments in Biomedical Sciences and Informatics II (E)	2	HIROYASU Tomoyuki	Available	Spring	Intensive
	31425012	003	Research and Experiments in Biomedical Sciences and Informatics II (E)	2	AKIYAMA Iwaki	Available	Spring	Intensive
	31425013	001	Research and Experiments in Biomedical Sciences and Informatics III (E)	2	KOBAYASHI Kota	Available	Fall	Intensive
	31425013	002	Research and Experiments in Biomedical Sciences and Informatics III (E)	2	HIROYASU Tomoyuki	Available	Fall	Intensive
	31425013	003	Research and Experiments in Biomedical Sciences and Informatics III (E)	2	AKIYAMA Iwaki	Available	Fall	Intensive
	31425014	001	Research and Experiments in Biomedical Sciences and Informatics IV (E)	2		Available	Spring	Intensive
	31425011	101	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	HIRYU Shizuko	Available	Spring	Intensive
	31425012	101	Research and Experiments in Biomedical Sciences and Informatics II (E)	2		Available	Fall	Intensive
	31425013	101	Research and Experiments in Biomedical Sciences and Informatics III (E)	2		Available	Spring	Intensive
	31425014	101	Research and Experiments in Biomedical Sciences and Informatics IV (E)	2		Available	Fall	Intensive
		31400099		Thesis	-		Available	
Medical Life Systems	31425005	001	Research and Experiments in Medical Life Systems I (E)	2		Available	Fall	Intensive
	31425006	001	Research and Experiments in Medical Life Systems II (E)	2	NISHIKAWA Kiyotaka	Available	Spring	Intensive
	31425007	001	Research and Experiments in Medical Life Systems III (E)	2	NISHIKAWA Kiyotaka	Available	Fall	Intensive
	31425008	001	Research and Experiments in Medical Life Systems IV (E)	2		Available	Spring	Intensive
	31425005	101	Research and Experiments in Medical Life Systems I (E)	2	YONEI Yoshikazu	Available	Spring	Intensive
	31425006	101	Research and Experiments in Medical Life Systems II (E)	2	YONEI Yoshikazu	Available	Fall	Intensive
	31425007	101	Research and Experiments in Medical Life Systems III (E)	2		Available	Spring	Intensive
	31425008	101	Research and Experiments in Medical Life Systems IV (E)	2		Available	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	AKIYAMA Iwaki	Available	Spring	Intensive
	31425107		Advanced Organic Chemistry (E)	2	OTA Tetsuo	Available	Spring	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
	31425119		Advanced Lectures in Applied Chemistry (E)	2	OE Yohei	Available	Fall	Intensive
Medical Life Systems	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 ICHIKAWA Hiroshi	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
	31405202		Computation Structure (E)	2	HAGA Hirohide	Available	Fall	Internet
	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	OMATA Seiro	Available	Fall	Tue/2
	31405207		Advanced Information and Computer Sciences II (E)	2	MOHD HAFIZ BIN MOHD	Available	Spring	Internet
	31405208		Advanced Information and Computer Sciences III (E)	2	MOHD HAFIZ BIN MOHD	Available	Spring	Internet
	31405209		Advanced Information and Computer Sciences IV (E)	2	MOHD HAFIZ BIN MOHD	Available	Spring	Thu/4
	31405210		Chemical Biology (E)	2	NOMURA Akiko	Available	Fall	Wed/2

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 1 (E)	2	PHILIP TROMOVITCH	Available	Spring	Wed/3
	31405303	002	Science and Engineering Writing 1 (E)	2	PHILIP TROMOVITCH	Available	Fall	Wed/3
	31405304	001	Science and Engineering Writing 2 (E)	2	PHILIP TROMOVITCH	Available	Spring	Thu/3
	31405304	002	Science and Engineering Writing 2 (E)	2	PHILIP TROMOVITCH	Available	Fall	Thu/4
	31405305		Presentation Skills for Scientists and Engineers (E)	1	PHILIP TROMOVITCH	Available	Fall	Thu/3
	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.