

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		Available	Spring	Intensive
	31425013	001	Research and Experiments in Biomedical Sciences and Informatics III (E)	2		Available	Fall	Intensive
	31425014	001	Research and Experiments in Biomedical Sciences and Informatics IV (E)	2	Shizuko Hiryu	Available	Spring	Intensive
	31425011	101	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	Kota Kobayashi	Available	Spring	Intensive
	31425011	102	Research and Experiments in Biomedical Sciences and Informatics I (E)	2	Tomoyuki Hiroyasu	Available	Spring	Intensive
	31425012	101	Research and Experiments in Biomedical Sciences and Informatics II (E)	2	Kota Kobayashi	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		Available	Spring	Intensive
	31425007	001	Research and Experiments in Medical Life Systems III (E)	2		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	Kiyotaka Nishikawa	Available	Spring	Intensive
	31425006	101	Research and Experiments in Medical Life Systems II (E)	2	Kiyotaka Nishikawa	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	Iwaki Akiyama	Available	Spring	Intensive
	31425107		Advanced Organic Chemistry (E)	2	Tetsuo Ohta	Available	Spring	Intensive
	31425108		Advanced Theory for Medical Imaging System (E)	2	Iwaki Akiyama	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	Shizuko Hiryu	Available	Spring	Intensive
	31425119		Advanced Lectures in Applied Chemistry (E)	2	Yohei Oe	Available	Fall	Intensive
Medical Life Systems	31425110		Advanced Lectures in Neuroanatomical and Neurophysiological Basis of Neurologic Diseases (E)	2	Masaya Ikegawa, Hiroaki Misonou	Available	Spring	Intensive
	31425111		Advanced Lectures in Systems Biological Sciences in Diseases (E)	2	Akira Kobayashi, Keizo Nishikawa	Available	Spring	Intensive
	31425112		Advanced Lectures in History of Japanese Medicine (E)	2	Keiko Iwaisako, Yoshikazu Yonei, Hiroshi Ichikawa	Available	Spring	Intensive
	31425113		Advanced Lectures in Molecular Pharmacology and Cellular Signaling (E)	2	Kiyotaka Nishikawa,	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		Biology (E)	2	Masaya Ikegawa	Available	Fall	Fri/4
	31405202		Computation Structure (E)	2	Hirohide Haga	Available	Spring	Internet
	31405203		Electric Circuit Theory (E)	2	Hiroyuki Toda	Available	Fall	Wed/2
	31405204		Nonlinear Physics (E)	2	Masanori Takaoka	Available	Spring	Mon/4
	31405205		Materials Chemistry (E)	2	Akiko Nomura	Available	Spring	Mon/2
	31405206		Applied Mathematical Analysis (E)	2	Naoshi Nishimura	Available	Fall	Tue/3
	31425207		Neuroscience (E)	2	Kota Kobayashi	Available	Spring	Fri/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	Makoto Sarata	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	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	Makoto Sarata	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 Information I ~ IV	or	8
	Research and Experiments in Medical Life Systems I ~ IV		
Elective Subjects	Category I, Group A		8 or more
	Category II, Group A		*All credits from other courses are counted in this category.
	Group B		6 or more (counted up to 8 as credits)
SUBTOTAL of CREDITS			4 or more (counted up to 6 as credits)
GRAND TOTAL of CREDITS			22 or more
			30 or more + Thesis
			※Students are required to submit thesis to complete the program.

How to Register

Students should follow their supervisor's instruction and take subjects according to the chart below.

Chart of credits required (minimum) for completion of Master's Program

	Elective subjects				Total
	A			B (Common General Subjects)	
	I (Subjects of Specialized Fields) ※1		II (Common Core Subjects)		
	①Research and Experiment I ~IV	②Other Subjects			
Credits	8	8 or more	6 or more	4 or more	30
	16 or more		6 or more	4 or more	
	24 or more				

※ 1. A I (subjects of specialized fields) have two sections

①Research and Experiments I ~IV【Compulsory】

Students are required to earn 8 credits of your own department.

It is compulsory to register one by one per each semester.

②Other subjects

Students need to earn 8 or more credits from following subjects;

-Subjects for ISTC of your own department

-Subjects for ISTC of other than your department

ISTC subjects of Graduate School of Life and Medical Sciences are included (P.14).

-Subjects of your own department other than ISTC

For example, regular Japanese course subjects;

in case you register these subjects, you need to follow Japanese registration guide.

※ 2. Students in the department of Electrical and Electronic Engineering need to register following compulsory subjects

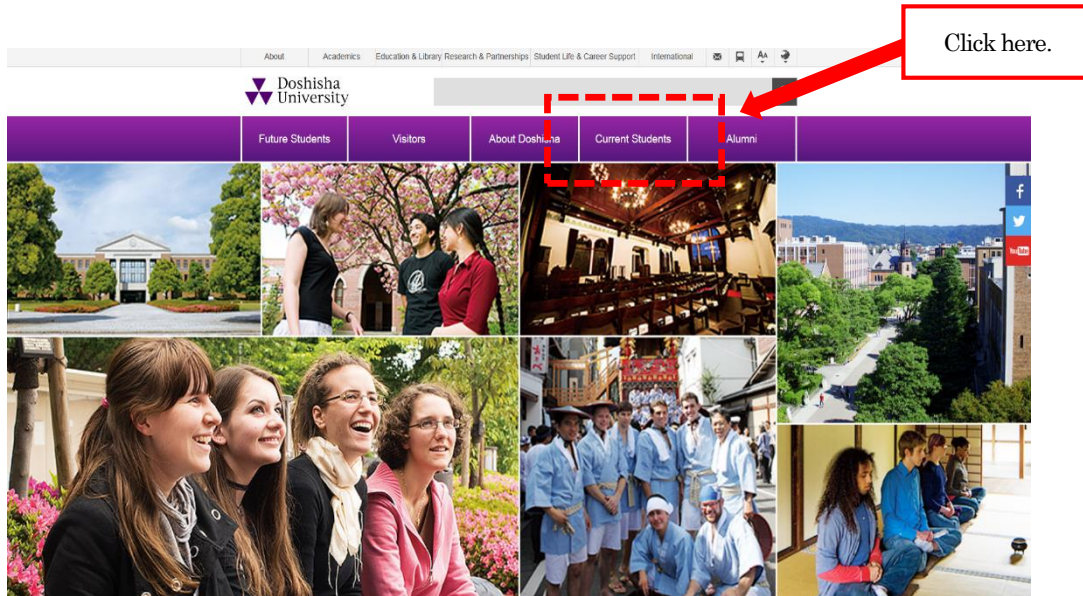
-Electrical Power Systems Engineering (E)

-Advanced Applications of Electronics (E)

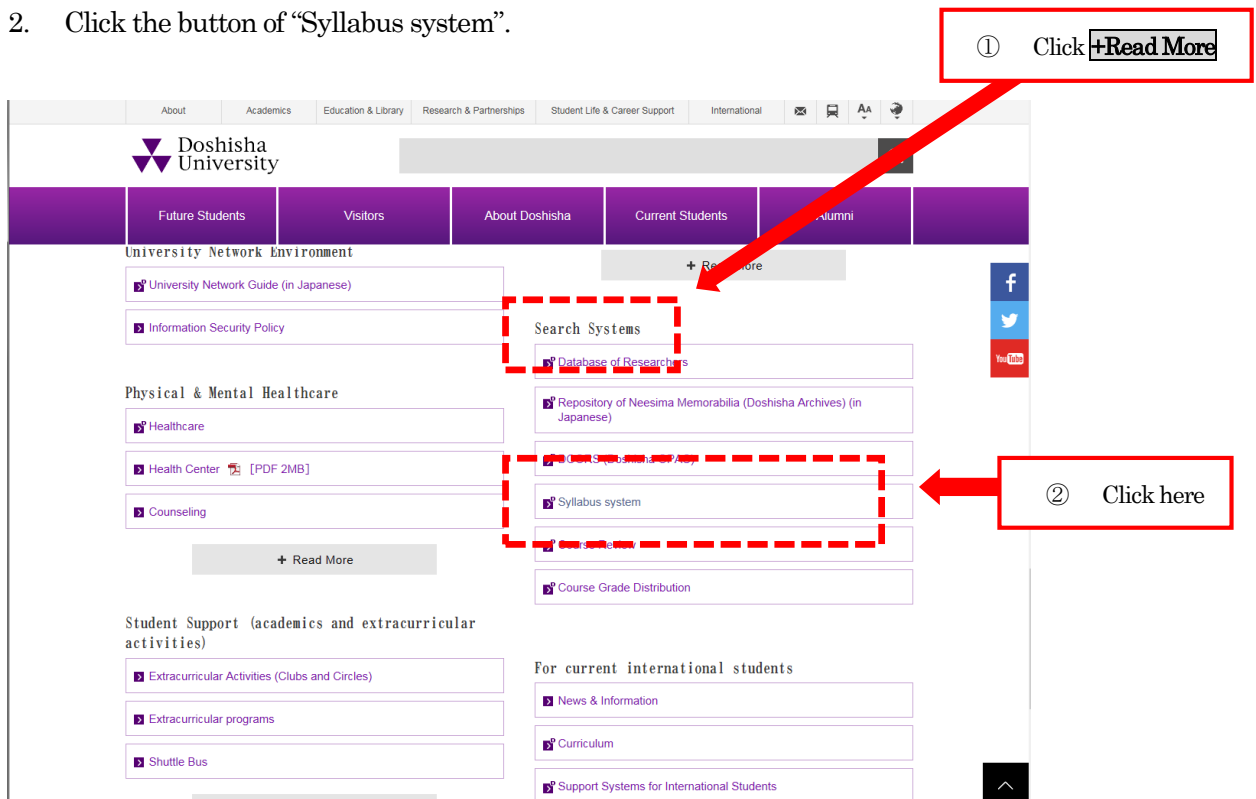
For non ISTC students to take subjects of ISTC, please visit the office of Faculty of Science and Engineering/Graduate School of Science and Engineering to register. Credits can be counted toward completion of the Master's Program within the limit of 6 credits together with other credits earned by subjects of other than your own course and of MOT course.

How to Search the Course Syllabus

1. Open the home page of Doshisha University (<http://www.doshisha.ac.jp/en/index.html>), click the button of “Current students” and scroll down.



2. Click the button of “Syllabus system”.



3. Input the subject code (name) into the box (①) and click the button of “Search”(②).

※ Refer to “List of Subjects” to find the subject code.

4. Click the title displayed in the Search results.

5. Details of the class are displayed.