

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.

**<AY2023> List of Subjects for ISTC,
Graduate School of Science and Engineering**

A I (Subjects of Specialized Fields)								
Department	Code	Class	Subject	Credit	Lecturer	Semester	Day/Period	Note *4
Information and Computer Science	31691001		Advanced Communications Engineering (E)	2	JUN CHENG	Spring	Mon/2	
	31691002		Advanced Emergent Systems (E) 【For students enrolled in 2022 and before】	2	(not available this year)	—	—	
	31691008		Advanced Programming Language (E) *Lectures will be given via internet	2	HAGA Hirohide	Spring	—	
	31691005		Advanced Nature-Inspired Computing (E)	2	IVAN TANEV	Fall	Thu/2	
	31691006		Advanced Information and Computer Sciences (E)	2	ANDREW DAVIES	Fall	Fri/2	
	31691007		Internship (E)	2	IVAN TANEV	All	Intensive	
	31691009		Advanced Distributed Systems (E)	2	KOITA Takahiro	Spring	Fri/1	*Prior Registration
	31691010		Advanced Natural Language Processing (E) *Only for the students in the department of Information and Computer Science	2	(not available this year)	—	—	
	31691011		Advanced Optimization Technologies (E)	2	(not available this year)	—	—	
	31691012		Advanced Knowledge Discovery in Databases (E)	2	OSAKI Miho	Fall	Fri/4	
	31691014		Advanced Digital Signal Processing (E)	2	KATO Tsuneo	Spring	Thu/2	
	31691081	*1	Research and Experiments I (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	1st year
	31691082	*1	Research and Experiments II (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	1st year
	31691083	*1	Research and Experiments III (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	2nd year
	31691084	*1	Research and Experiments IV (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	2nd year
	31691091	*1	Research and Experiments I (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	1st year
	31691092	*1	Research and Experiments II (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	1st year
	31691093	*1	Research and Experiments III (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	2nd year
	31691094	*1	Research and Experiments IV (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	2nd year
	31691090		Master's Thesis (E)	—	—	All	Intensive	*3
Electrical and Electronic Engineering	31692001		Advanced Infrastructure Engineering (E)	2	NAGAOKA Naoto	Fall	Tue/2	
	31692002		Advanced Opto-Electronic Waveguide (E) 【For students enrolled in 2019 and before】	2	TODA Hiroyuki	Fall	Thu/2	
	31692012		Advanced Optical Communication Engineering (E) 【For students enrolled in after 2020】	2	TODA Hiroyuki	Fall	Thu/2	
	31692008		Electrical Power Systems Engineering (E) *This subject is compulsory for the students are who enrolled in the department of Electrical and Electronic Engineering.	2	BEVRANI HASSAN	Spring	Intensive	1st year
	31692009		Advanced Applications of Electronics (E) *This subject is compulsory for the students are who enrolled in the department of Electrical and Electronic Engineering.	2	Yuki Sato *Lecturer may be changed.	Fall	Intensive	1st year
	31692010		Advanced Electrical and Electronic Engineering I (E) *Only for the students in the department of Electrical and Electronic Engineering who have completed Code 31692008 or 31692009.	2	BEVRANI HASSAN	Spring	Intensive	2nd year
	31692011		Advanced Electrical and Electronic Engineering II (E) *Only for the students in the department of Electrical and Electronic Engineering who have completed Code 31692008 or 31692009.	2	Yuki Sato *Lecturer may be changed.	Fall	Intensive	2nd year
	31692007		Internship (E)	2	Yuki Sato *Lecturer may be changed.	All	Intensive	
	31692081	*1	Research and Experiments I (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	1st year
	31692082	*1	Research and Experiments II (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	1st year
	31692083	*1	Research and Experiments III (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	2nd year
	31692084	*1	Research and Experiments IV (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	2nd year
	31692091	*1	Research and Experiments I (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	1st year
	31692092	*1	Research and Experiments II (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	1st year
	31692093	*1	Research and Experiments III (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	2nd year
	31692094	*1	Research and Experiments IV (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	2nd year
	31692090		Master's Thesis (E)	—	—	All	Intensive	*3
Mechanical Engineering	31693001		Advanced Fluid Dynamics (E)	2	(not available this year)	—	—	
	31693002		Advanced Mechanics of Materials (E)	2	OKUBO Kazuya	Fall	Thu/2	
	31693003		Advanced Spray Combustion Science (E)	2	SENDA Jiro	Fall	Tue/1	
	31693004		Advanced Fluid Engineering (E)	2	(not available this year)	—	—	
	31693005		Advanced Mechanical Materials (E)	2	MIYAMOTO Hiroyuki	Spring	Fri/3	
	31693006		Advanced Mechanical Engineering I (E)	2	(not available this year)	—	—	
	31693007		Advanced Mechanical Engineering II (E)	2	(not available this year)	—	—	
	31693008		Internship (E)	2	OKUBO Kazuya	All	Intensive	
	31693081	*1	Research and Experiments I (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	1st year
	31693082	*1	Research and Experiments II (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	1st year
	31693083	*1	Research and Experiments III (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	2nd year
	31693084	*1	Research and Experiments IV (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	2nd year
	31693091	*1	Research and Experiments I (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	1st year
	31693092	*1	Research and Experiments II (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	1st year
	31693093	*1	Research and Experiments III (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	2nd year
	31693094	*1	Research and Experiments IV (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	2nd year
	31693090		Master's Thesis (E)	—	—	All	Intensive	*3

A I (Subjects of Specialized Fields)									
Applied Chemistry	31694001		Advanced Organic Chemistry (E)	2	KOGA Tomoyuki KODERA Masahito KITAGISHI Hiroaki	Spring	Tue/2		
	31694002		Advanced Inorganic Chemistry (E)	2	INABA Minoru KATO Masaki KIMURA Yoshifumi	Spring	Tue/1		
	31694003		Advanced Physical Chemistry (E)	2	SHIOI Akihisa	Fall	Fri/2		
	31694004		Advanced Analytical Chemistry (E)	2	TSUKAGOSHI Kazuhiko	Fall	Tue/2		
	31694005		Advanced Transport Phenomena (E)	2	TSUCHIYA Katsumi	Fall	Thu/3		
	31694006		Internship (E)	2	MIZUTANI Tadashi	All	Intensive		
	31694081	*1	Research and Experiments I (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	1st year	
	31694082	*1	Research and Experiments II (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	1st year	
	31694083	*1	Research and Experiments III (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	2nd year	
	31694084	*1	Research and Experiments IV (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	2nd year	
	31694091	*1	Research and Experiments I (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	1st year	
	31694092	*1	Research and Experiments II (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	1st year	
	31694093	*1	Research and Experiments III (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	2nd year	
	31694094	*1	Research and Experiments IV (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	2nd year	
	31694090		Master's Thesis (E)	—	—	All	Intensive	*3	
	Science of Environment and Mathematical Modeling	31695001		Advanced Analysis (E)	2	TAKEI Yoshitsugu	Fall	Tue/1	
31695002			Advanced Numerical Analysis (E)	2	OMATA Seiro	Spring	Tue/2		
31695003			Advanced Difference / Differential Equations (E)	2	SAITO Seiji	Fall	Wed/3		
31695004			Advanced Natural Environment Studies (E)	2	TSUTSUMI Hiroyuki	Spring	Tue/5		
31695005			Advanced Earth and Planetary Environment Science (E)	2	HAYASHIDA Akira	Fall	Mon/3		
31695006			Advanced Ecology (E)	2	HASEGAWA Motohiro	Spring	Mon/3		
31695007			Advanced Environmental Systems Engineering (E)	2	(not available this year)	—	—		
31695009			Advanced Human and Environmental Studies (E)	2	AKAO Satoshi	Spring	Wed/3		
31695010			Advanced Statistical Finance (E)	2	TSUDA Hiroshi	Spring	Thu/4		
31695011			Advanced Biodiversity Science (E)	2	OSONO Takashi	Fall	Thu/4		
31695012			Advanced Atmospheric Environment Studies (E)	2	YAMANE Shozo	Spring	Thu/1		
31695008			Internship (E)	2	HASEGAWA Motohiro	All	Intensive		
31695081		*1	Research and Experiments I (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	1st year	
31695082		*1	Research and Experiments II (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	1st year	
31695083		*1	Research and Experiments III (E) 【For students enrolled in spring】	2	*2	Spring	Intensive	2nd year	
31695084		*1	Research and Experiments IV (E) 【For students enrolled in spring】	2	*2	Fall	Intensive	2nd year	
31695091		*1	Research and Experiments I (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	1st year	
31695092		*1	Research and Experiments II (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	1st year	
31695093		*1	Research and Experiments III (E) 【For students enrolled in fall】	2	*2	Fall	Intensive	2nd year	
31695094		*1	Research and Experiments IV (E) 【For students enrolled in fall】	2	*2	Spring	Intensive	2nd year	
31695090		Master's Thesis (E)	—	—	All	Intensive	*3		
A II (Common Core Subjects)									
Department	Code	Class	Subject	Credit	Lecturer	Semester	Day/Period	Note	*4
ALL	31696501		Computation Structure (E) *Lectures will be given via internet	2	HAGA Hirohide	Fall	—		
	31696502		Electric Circuit Theory (E)	2	TODA Hiroyuki BABA Yoshihiro INOUE Kaoru KOYAMA Daisuke	Fall	Wed/2		
	31696503		Nonlinear Physics (E)	2	TAKAOKA Masanori	Spring	Mon/4		
	31696504		Materials Chemistry (E)	2	NOMURA Akiko	Spring	Mon/2		
	31696505		Applied Mathematical Analysis (E)	2	OMATA Seiro	Fall	Tue/2		
	31696506	001	Biology (E)	2	IKEGAWA Masaya	Fall	Fri/4		
	31696507		Neuroscience (E)	2	KOBAYASHI Kota	Spring	Fri/2		
B (Common General Subjects)									
Department	Code	Class	Subject	Credit	Lecturer	Semester	Day/Period	Note	*4
ALL	31696601		Ethics for Scientists and Engineers (E)	2	PHILIP TROMOVITCH	Spring	Thu/4		
	31696602		Technology and Business Project Management (E)	2	SARATA Makoto	Spring	Tue/3·4		
	31696603	001	Science and Engineering Writing 1 (E)	2	PHILIP TROMOVITCH	Spring	Wed/3		
		002	Science and Engineering Writing 1 (E)	2	PHILIP TROMOVITCH	Fall	Wed/3		
	31696608	001	Science and Engineering Writing 2 (E)	2	PHILIP TROMOVITCH	Spring	Thu/3		
		002	Science and Engineering Writing 2 (E)	2	PHILIP TROMOVITCH	Fall	Thu/4		
	31696605		Presentation Skills for Scientists and Engineers (E)	1	PHILIP TROMOVITCH	Fall	Thu/3		
	31696606		R & D Planning for Scientists and Engineers (E)	2	CAMILLE-FAITH PASCUA ROMERO	Fall	Thu/2		
	31696607		Japanese Corporate Culture (E)	2	SARATA Makoto	Fall	Tue/3·4		

*1 Please choose the class code from the list on the next page, p.13.

*2 It will be lectured by your supervisor.

*3 【Master's Thesis】 should be registered in final Spring semester.

*4 1st year=the first and second semester, 2nd year=the third and fourth semester

***1) Class Code for [Research and Experiments I ~ IV]**

Information and Computer Science	
Class	Lecturer
008	HAGA Hirohide
010	WATABE Hirokazu
013	OKUBO Masashi
014	HASHIMOTO Masafumi
015	JUN CHENG
016	TSUCHIYA Takao
018	SATO Kenya
021	TAKAHASHI Kazuhiko
022	OSAKI Miho
023	IVAN TANEV
024	TSUCHIYA Seiji
025	KATO Tsuneo
026	KOITA Takahiro
027	OKUDA Masahiro
028	ONO Keiko
029	TAMURA Akihiro
030	KIMURA Tomotaka
031	KATSURAI Marie

Electrical and Electronic Engineering	
Class	Lecturer
001	INOUE Kaoru
002	KONDO Koichi
017	WADA Motoi
018	TSUJI Mikio
020	KATO Toshiji
021	NAGAOKA Naoto
026	MATSUKAWA Mami
027	KASUYA Toshiro
028	DEGUCHI Hiroyuki
030	IWAI Hisato
031	TODA Hiroyuki
032	BABA Yoshihiro
033	FUJIWARA Koji
034	OTANI Naoki
035	SATO Yuki
036	KOYAMA Daisuke
037	TAKAHASHI Yasuhito
038	IBI Shinsuke

Mechanical Engineering	
Class	Lecturer
018	MATSUOKA Takashi
019	SENDA Jiro
020	AOYAMA Eiichi
022	TSUJIUCHI Nobutaka
024	HIRATA Katsuya
027	INAOKA Kyoji
028	OKUBO Kazuya
029	TAKAOKA Masanori
033	MIYAMOTO Hiroyuki
034	HIROGAKI Toshiki
036	TANAKA Tatsuya
039	TAKUWA Hideki
040	MATSUMURA Eriko
041	ITO Akihito
043	SASADA Masahiro
044	OBUNAI Kiyotaka
045	YUASA Motohiro
046	NAKAMURA Morimasa

Applied Chemistry	
Class	Lecturer
025	KODERA Masahito
026	MATSUMOTO Michiaki
027	TSUKAGOSHI Kazuhiko
029	MIZUTANI Tadashi
032	TSUCHIYA Katsumi
033	INABA Minoru
035	SHIOI Akihisa
036	SHIRAKAWA Yoshiyuki
037	KATO Masaki
038	KIMURA Yoshifumi
039	HITOMI Yutaka
040	KOGA Tomoyuki
041	TAKENAKA Sakae
042	HASHIMOTO Masahiko
043	KITAGISHI Hiroaki
044	DOI Takayuki

Science of Environment and Mathematical Modeling	
Class	Lecturer
003	HAYASHIDA Akira SHIBATA Kazunari
016	SAITO Seiji
019	MORIMITSU Masatsugu
020	TSUDA Hiroshi
022	YAMANE Shozo
023	GOTO Takuya
024	IMAI Hitoshi
026	KAWAGUCHI Shu
027	TAKEI Yoshitsugu
028	OSONO Takashi
029	TSUTSUMI Hiroyuki
030	HASEGAWA Motohiro
031	AKAO Satoshi
032	ASAOKA Masayuki

**<AY2023> List of Subjects for ISTC,
Graduate School of Life and Medical Sciences**

A I (Subjects of Specialized Fields)								*5				
Graduate School	Code	Class	Subject	Credit	Lecturer	Semester	Day/Period	I	E	M	A	S
Life and Medical Sciences	31425107		Advanced Organic Chemistry (E)	2	OTA Tetsuo	Spring	Intensive	○	○	○	○	○

ISTC students in the Graduate School of Science and Engineering are able to take the subjects offered by the Graduate School of Life and Medical Sciences as above.

ISTC subjects of Graduate School of Life and Medical Sciences are counted as A I subjects (P.10, "How to register", ※1 ②)

**<AY2023> List of Subjects taught in English for Regular Course (non-ISTC),
Graduate School of Science and Engineering**

A I (Subjects of Specialized Fields)								*5				
Department	Code	Class	Subject	Credit	Lecturer	Semester	Day/Period	I	E	M	A	S
Information and Computer Science												
Electrical and Electronic Engineering	31620049	000	先端電気工学特別講義1 (Special Lecture in Frontier Electrical Engineering 1)	2	BEVRANI HASSAN	Spring	Intensive	×	○	×	×	×
	31620056	000	回路理論特論(Advanced Circuit Theory)	2	KATO Toshiji	Fall	Thu/1	×	○	×	×	×
	31620063	000	自動制御工学特論(Advanced Lectures in Automatic Control Engineering)	2	INOUE Kaoru	Spring	Mon/2	×	○	×	×	×
Mechanical Engineering												
Applied Chemistry												
Science of Environment and Mathematical Modeling												

Subjects of your own department other than ISTC (i.e. regular Japanese course subjects) can be counted.

In case you register these subjects, please follow their each registration guide.

(P.10, "How to register", ※1 ②)

*5 Whether the subjects can be counted as A I subjects (○) or not (×) for the students in the department of:

"I" = Information and Computer Science

"E" = Electrical and Electronic Engineering

"M" = Mechanical Engineering

"A" = Applied Chemistry

"S" = Science of Environment and Mathematical Modeling

Course Period and Length of Enrollment

For Master's Program, the standard period of study is 2 years.

The period cannot be extended more than 4 years.

School Hours

1st period	9:00 - 10:30
2nd period	10:45 - 12:15
3rd period	13:10 - 14:40
4th period	14:55 - 16:25
5th period	16:40 - 18:10
6th period	18:25 - 19:55

GPA (Grade Point Average) System

Doshisha University has been adopting the GPA system university-wide since 2004.

Graduate subjects are graded in 7 levels (A+, A, B+, B, C+, C, F). Each level is assigned with a Grade Point ranging from 4.5~0.0, with which the Grade Point Average per credit is calculated.

Grade	Grade Point	Description
A+	4.5	Exceptional
A	4.0	Excellent
B+	3.5	Very Good
B	3.0	Good
C+	2.5	Satisfactory
C	2.0	Adequate
F	0.0	Failure

Subjects that are not covered by the above system are graded as PAS (pass), FAL (fail), TFC (approved), PEN (pending) and CNT (continued).

GPA is calculated by firstly converting the grades for all the courses graded in the A+ ~ F range to grade points, and calculating the weighted average based on the number of credits. The formula to calculate GPA is

$$\text{Cumulative GPA} = \frac{([A+] \times 4.5 + [A] \times 4.0 + [B+] \times 3.5 + [B] \times 3.0 + [C+] \times 2.5 + [C] \times 2.0 + [F] \times 0.0)}{([A+] + [A] + [B+] + [B] + [C+] + [C] + [F])}$$

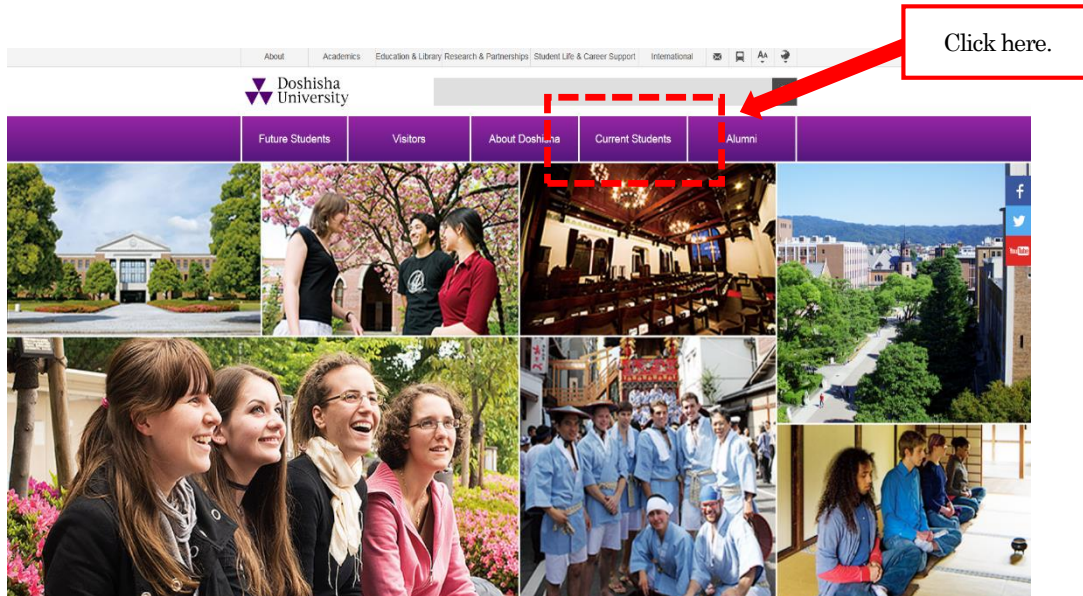
(A+ to F indicates the respective total numbers of credits for courses graded A+ to F)

Degree

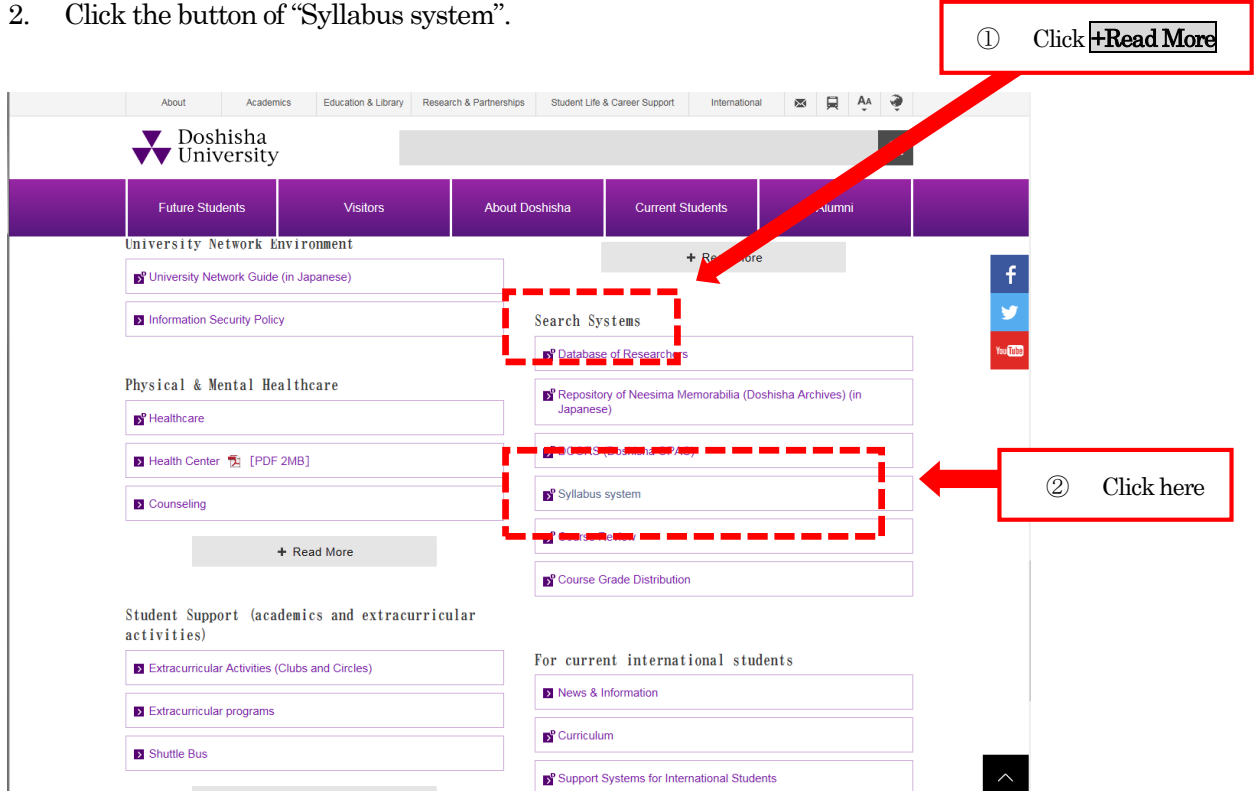
For the department of Applied Chemistry and Science of Environmental and Mathematical Modeling, the name of degree is to be determined "Master of Science" or "Master of Science in Engineering" under the guidance of students' supervisor.

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.