

# For entrants in FY 2019

Appended Form 1

## Specifications for Major Program

Name of School (Program) [School of Dentistry, Program of International Dentistry]

Program name (Japanese)	国際歯学プログラム
(English)	Program of International Dentistry
1. Degree: Bachelor (Dentistry)	
2. Outline The School of Dentistry provides the "Program for International Dentistry" based on a foundational philosophy that aims to educate dental medical staff to acquire cross-disciplinary, general, creative, and international capabilities. To enable students to achieve the targets defined for this program, education is provided according to the contents described below: (1) Biodental education in the newly established academic framework that fuses life science and dental medicine and teaches the latest research methods, knowledge, and skills while respecting the existing academic frameworks of life science and dental medicine; (2) Education for developing dental medical staff who are able to collect and analyze required knowledge and information, update their thinking based on such knowledge and information in order to find comprehensive solutions to problems from a variety of points of view, and who possess a mindset that leads them to attempt to judge and act on their own responsibility and with deep humanity; and (3) Education that fosters expressiveness, comprehension, and a rich sensitivity for Japanese and foreign languages, and that develops capabilities for communication with and presentation to persons from different cultures and/or academic realms.	
3. Diploma policies (degree conferment policy & program attainment goals) The Program for International Dentistry will award a degree of Bachelor of Dentistry to students who, in addition to earning the required credits defined for the educational course, have acquired the capabilities described below: (1) Deep humanity, an understanding of the professional responsibilities of a dentist, and the fundamental knowledge, skills, and attitude required for putting such responsibilities into practice; (2) Recognition of the importance of research, as well as possession of a scientific intelligence and creativity; (3) The ability to think critically and solve problems, as well as the ability to study continuously throughout life; (4) The ability to communicate appropriately with patients, their families, and the other medical staff; (5) A capability for coping with change in society and progress in science related to dental medicine;	

and

- (6) The ability to deepen empathy and understanding toward different cultures and scientific realms, as well as a capability for convincingly representing personal opinions in an international society.

#### 4. Curriculum policies (policies for organizing & providing curricula)

To enable students to achieve the targets that are defined for the Program for International Dentistry, the educational courses are organized and executed according to the following policies:

- (1) The liberal arts subjects are provided to enable students to establish the academic foundation required for the specialized education, acquire academic and general knowledge, methodology, and points of view, and develop a deep humanity based on a wide-ranging intelligence and the normative consciousness required for medical staff.
- (2) Students are allowed to improve their basic English ability by taking foreign language subjects in the liberal arts education and practical English subjects provided in the specialized education. In addition to this, they join specialized educational subjects that are provided in both Japanese and English (Dual Linguistic Education), and study with students on the International Dental Course and short-term international students, in order to enhance their empathy and understanding toward the cultures of various countries and improve their international communication abilities.
- (3) The specialized education subjects provide biodental education for practicing dental medicine based on life science in order to enable students to acquire the basic knowledge and skills in life science and the specialized knowledge and basic clinical skills required for dentists; to enhance their understanding of scientific literacy, research ethics, and medical ethics; and to develop their scientific thinking abilities and creativity through practical dentistry research and education.
- (4) Students are encouraged to enhance their awareness as future dental practitioners through the practical clinical experience gained in early stages of the course, and to recognize both the importance of the establishment of good human relationships with patients, their families, and other medical staff and the diversity of needs in dental medicine. In addition to this, they acquire the perspectives, knowledge, skills, and attitude required to provide the high-quality dental medicine that citizens require and to take positions of responsibility in local society.
- (5) Integrated dental medicine education is provided for whole the educational course by introducing Problem-based Learning (PBL) and the other educational methodologies as self-leading study methods to enable students to develop the professionalism required for medical staff; improve their problem solving abilities, critical thinking, and ability for lifelong study; and acquire the capabilities required for dental medicine based on the holistic philosophy and general competence required in an international society.

The achievement in education is evaluated based on the result of the common achievement test (Computer Based Testing (CBT) / Objective Structured Clinical Examination(OSCE)), conducted before starting practical clinical exercises, in addition to the grade scores for the subjects in the

Program for International Dentistry and evaluation of the achievement level against the target defined for this program, in order to develop dentists with the superior capabilities that are required in society and by citizens.

5. Start of the program / Admission conditions

First year (at the time of admission)

6. Qualification(s)

Qualification for the National Board Dental Examination (obtainable on graduation)

7. Class subjects and class content

\* See the Table of Registration Standards on Attached Sheet 1 for your class subjects.

\* See the syllabus announced in each fiscal year for class content.

8. Academic achievements

At the end of each semester, evaluation criteria will be shown with a clear indication of attainment levels according to the evaluation items for academic achievements.

Students' learning outcomes from admission to the current semester will be indicated as one of three levels: "Excellent," "Very Good," and "Good," based on evaluation criteria calculated by adding the weighted values to numerically converted evaluations of their academic achievements (S = 4, A = 3, B = 2, and C = 1) in each subject being evaluated.

Evaluation of academic achievement	Converted values
S (Excellent: 90 points or higher)	4
A (Superior: 80 – 89 points)	3
B (Good: 70 – 79 points)	2
C (Fair: 60 – 69 points)	1

Academic achievement	Evaluation criteria
Excellent	3.00 – 4.00
Very Good	2.00 – 2.99
Good	1.00 – 1.99

\* See the relationships between evaluation items and evaluation criteria on Attached Sheet 2.

\* See the relationships between evaluation items and class subjects on Attached Sheet 3.

\* See the Curriculum Map on Attached Sheet 4.

Academic achievements based on the Program (detailed knowledge, skills, and attitude)

○ Knowledge & understanding

1. Knowledge & understanding of liberal arts including the humanities and natural sciences
2. Knowledge of the principles of medicine
3. Knowledge regarding basic and clinical dental medicine
4. Knowledge regarding related areas of medicine
5. Knowledge of life sciences
6. Knowledge & understanding of foreign languages and foreign cultures

○Abilities & skills

1. Basic skills for prevention, examination, inspection, diagnosis, and treatment of diseases in areas of dental medicine
2. Basic skills required for conducting experiments and presentations
3. Skills for appropriately collecting, selecting, organizing, and presenting information regarding life science and dental medicine

○Comprehensive abilities

1. Rich humanity, understanding of professional responsibilities of a dentist, and general capabilities including basic knowledge, skills, and attitude required for putting such responsibilities into practice
2. Recognition of the importance of research, scientific intelligence, and creativity
3. Ability to think critically, solve problems, and engage in lifelong learning
4. Skills for appropriately communicating with patients, their families, and other medical staff
5. Ability for coping with change in society and progress in science related to dental medicine
6. Capabilities for coexisting and cooperating with persons from various cultures and regions, and for international communication

9. Graduation thesis (graduation research) (placement and method & time of assignment)

Students are not required to prepare a graduation theses.

1 0. Responsibility system

The dean room council and the faculty council of the School of Dentistry are engaged in planning for and execution of this course. For the processes of evaluation and action for improvement, the dean of the School of Dentistry consults with the dean room council and the faculty council of the School of Dentistry, and carries out the required actions while taking the results of the consultations into consideration.

## &lt;Program of International Dentistry&gt;

Type	Subject type		Required No. of credits	Class Subject	No. of credits	Type of course registration	Term in which the subject is taken (※1)		
Liberal Arts Education Subjects	Peace Science Courses		2		2	Elective/required	2nd grade 2 term		
	Basic Courses in University Education	Introduction to University Education	2	Introduction to University Education	2	Required	1 term		
		Introductory Seminar for First-Year Students		2	Introductory Seminar for First-Year Students	2	Required	1 term	
	Common Subjects	Area Courses		4	More than 2 subjects and 4 credit from Courses in Arts and Humanities/Social	1or2	Elective/required	1, 3 term	
				2	General Health and Oral Sciences I	2	Required	2 term	
				2	General Health and Oral Sciences II	2	Required	4 term	
		Foreign Languages	English (※2)	English Communication	2	English Communication I	1	Required	1term
					2	English Communication II	1		3term
			Communication I	2	Communication IA	1	Required	1, 2 term	
				2	Communication IB	1		3, 4 term	
			Communication II	2	Communication IIA	1	Required	3, 4 term	
				1	Communication IIB	1		1~4term	
		Non-English Foreign Languages (Choose 1 language from German, French, Chinese)		4	Foreign Languages: Basic Studies I, II	1	Elective/required	1, 2term	
				Foreign Languages: Basic Studies III, IV	1	3, 4 term			
	Information Courses		2	Elements of Information Literacy	2	Elective/required (※3)	1 term		
				Exercise in Information Literacy	2		3 term		
	Health and Sports Courses		2	Health and Sports Sciences	2	Elective/required	1~4term		
				Practicum in Sports	1				
	Foundation Courses		6	General Chemistry	2	Required	2term		
				Cell Science	2		3term		
				Development of International Collaboration in Medical Science	2		1term		
			4	Foundation physics for life science(※4)	2	Elective/required	2term		
				Foundation biology for life science(※4)	2		1term		
Anatomy for understanding human being I				1	3term				
Anatomy for understanding human being II				1	4term				
Basic Calculus				2	2term				
Basic Linear Algebra				2	4term				
Fundamental PhysicsI				2	3term				
Total		39							

※1 : : If there is no annual statement in the table, you should take it in the first year. If they have failed to earn the credit in the term, it is allowed to take the subject after the term. It is required to confirm the semester in which the subject is provided in the class schedule for liberal arts education subjects that is published every academic year, because some subjects might be provided in a term other than that which is shown in this document.

※2 : : The credit for "Field Research in the English-speaking World" that is earned through such activities as a short-term study abroad, and that for "Online English Seminar I · II · III" that is earned through a program of self-study, are accepted as the credit for English required for graduation (8 credits). Achievement in a foreign language skill test and language training might be accepted as a credit. For the details, refer to the description regarding English subjects in liberal arts education and the item "Credit based on Achievement in Foreign Language Skill Test" in the Students Handbook.

※3 : : It is required to take the subject "Elements of Information Literacy" that is provided in the first semester of the first year. Only when failing to earn the credit for "Elements of Information Literacy" is it allowed to take the subject "Exercise in Information Literacy" that is provided in the second semester.

※4 : : The subjects for which the credit is required to be earned are specified in the School of Dentistry. The credit for any subject that is not specified is not accepted as the credit required for graduation.





Subjects of clinical	⊙ Early Clinical Exposure	4		1		2		1				
	⊙ Clinical Practice	39							39			
	<b>Total</b>		2	4	24	24	28	30	34	22	18	40
		226	6	48	58	56	58					

⊙ indicates required subjects

**Necessary credits for graduation :264credits**

Liberal Arts Education Subjects

Peace Science Courses	2credits
Basic Courses in University Education	4credits
Common subjects	
Area Courses	8credits
Foreign Languages	
English	7credits
Non-English Foreign Languages	4credits
Information Courses	2credits
Health and Sports Courses	2credits
Foundation Courses	10credits

Specialized Education Subjects

Fundamental subjects	
Basic Specialized Courses	12 credits
Subjects of life sciences	53 credits
Medical subjects	12 credits
Subjects of interdisciplinary de	74 credits
Community dentistry	4 credits
Subjects of Dental research	4 credits
Advanced subjects	
Subjects of clinical practice	
Early Clinical Exposure	4 credits
Subjects of clinical practice	39 credits

Liberal Arts Education Subjects 39credits

Specialized Education Subjects 226 credits



Academic achievements of Program of International Dentistry

Relationships between the evaluation items and evaluation criteria

Academic achievements		Evaluation criteria		
Evaluation items		Excellent	Very Good	Good
Knowledge and Understanding	(1) Knowledge & understanding of liberal arts including the humanities and natural sciences	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
	(2) Knowledge of the principles of medicine	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
	(3) Knowledge regarding basic and clinical dental medicine	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
	(4) Knowledge regarding related areas of medicine	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
	(5) Knowledge of life sciences	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
	(6) Knowledge & understanding of foreign languages and foreign cultures	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
Abilities and Skills	(1) Basic skills for prevention, examination, inspection, diagnosis, and treatment of diseases in areas of dental medicine	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also, participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn in hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
	(2) Basic skills required for conducting experiments and presentations	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also, participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn in hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
	(3) Skills for appropriately collecting, selecting, organizing, and presenting information regarding life science and dental medicine	Has sufficient capabilities, and finding and studying by himself/herself problems that need to be solved.	Has sufficient capabilities.	Has capabilities.
Comprehensive Abilities	(1) Rich humanity, understanding of professional responsibilities of a dentist, and general capabilities including basic knowledge, skills, and attitude required for putting such responsibilities into practice	Has sufficient capabilities for providing appropriate medical care as a dentist under supervision of a clinical instructor, and finding and studying by himself/herself problems that need to be solved.	Has sufficient capabilities for providing appropriate medical care as a dentist under supervision of a clinical instructor.	Has capabilities for providing appropriate medical care as a dentist under supervision of a clinical instructor.
	(2) Recognition of the importance of research, scientific intelligence, and creativity	Is capable of finding a problem related to life science that needs to be solved, and solving it using scientific methodologies.	Is capable of finding a problem related to life science that needs to be solved, and sufficiently explaining its importance and the process needed to solve it using scientific methodology.	Is capable of finding a problem related to life science that needs to be solved, and explaining its importance and the process needed to solve it using scientific methodology.
	(3) Ability to think critically, solve problems, and engage in lifelong learning	Is able to select and study an appropriate dental treatment by himself/herself based on scientific evidence.	Is able to sufficiently explain the importance and process of selecting and studying an appropriate dental treatment by himself/herself based on scientific evidence.	Is able to explain the importance and process of selecting and studying an appropriate dental treatment by himself/herself based on scientific evidence.
	(4) Skills for appropriately communicating with patients, their families, and other medical staff	Is capable of holistically communicating in a dignified manner with a patient and his/her family, and collaborating with medical staff, to establish an appropriate relationship of trust as a dentist.	Is sufficiently capable of holistically communicating in a dignified manner with a patient and his/her family, and collaborating with medical staff.	Is capable of holistically communicating in a dignified manner with a patient and his/her family, and collaborating with medical staff.
	(5) Ability for coping with change in society and progress in science related to dental medicine	Has wide-ranging intelligence and adaptability, and is able to cope with change in social conditions and innovation in medical technologies.	Has wide-ranging intelligence and adaptability, and is able to sufficiently explain the necessity of coping with change in social conditions and innovation in medical technologies.	Has wide-ranging intelligence and adaptability, and is able to explain the necessity of coping with change in social conditions and innovation in medical technologies.
	(6) Capabilities for coexisting and cooperating with persons from various cultures and regions, and for international communication	Sufficiently understands and has empathy toward various cultures and regions, and is capable of convincingly representing his/her own opinion in an international society.	Understands and has empathy toward various cultures and regions, and is capable of convincingly representing his/her own opinion in an international society.	Understands and has empathy toward various cultures and regions, and is capable of taking part in an international society.

Placement of the Liberal Arts Education in the Major Program

In this Program, students will create the academic foundation required for a specialized education, acquire knowledge through wide-ranging studies in the Humanities, Social Sciences, and Languages, and cultivate intellectual curiosity and the ability to take intelligent actions. They will develop the foundation as a medical expert, by acquiring communication skills and learning cooperation, the ability to collect information, and ideas on bioethics and dignity.







Curriculum Map of Course of Dentistry

Academic achievements	1 grade				2 grade				
	1 term	2 term	3 term	4 term	1 term	2 term	3 term	4 term	
Knowledge and Understanding	Knowledge & understanding of liberal arts including the humanities and natural sciences	Basic Courses in University Education (◎)					Peace Science Courses (○)		
		Area Courses (○)							
		Information Courses (○)							
		Foundation Courses (◎)							
		Foreign Languages (◎)							
	Knowledge of the principles of medicine	Development of International Collaboration in Medical Science (◎)							
	Knowledge regarding basic and clinical dental medicine					Medical Ethics (◎)			Medical Informatics (◎)
	Knowledge regarding related areas of medicine		Gross Anatomy	Basic Practice of Anat	Basic Practice of Anat	Oral Anatomy (◎)	Embryology (◎)	Microbiology (◎)	Microbiology (◎)
						Oral Histology (◎)	Oral Physiology (◎)	Dental Pharmacology (◎)	Dental Pharmacology (◎)
						Oral Physiology (◎)	Oral Biochemistry (◎)	Basic Oral Pathology (◎)	Basic Oral Pathology (◎)
					Oral Biochemistry (◎)	Basic Practice of Histology (◎)	Dental Materials and Devices Practice (◎)	Immunology (◎)	
					Basic Practice of Histology (◎)	Dental Materials and Devices Practice (◎)	Practice of Oral Biochemistry (◎)	Dental Materials and Devices Practice (◎)	
					Dental Materials and Devices (◎)	Public Health Administration (◎)	Laboratory Work in Oral Practice (◎)	Dental Materials and Devices Practice (◎)	
Knowledge of life sciences									
						Human Genetics (◎)		Research Start-Up (◎)	
Knowledge & understanding of foreign languages and foreign cultures						Early Clinical Exposure (◎)			
								Em	
Abilities and Skills	Basic skills for prevention, examination, inspection, diagnosis, and treatment of diseases in areas of dental medicine		Basic Practice of Anat	Basic Practice of Anat	Basic Practice of Histology (◎)	Basic Practice of Histology (◎)	Dental Materials and Devices Practice (◎)	Dental Materials and Devices Practice (◎)	
	Basic skills required for conducting experiments and presentations					Early Clinical Exposure (◎)	Practice of Oral Biochemistry (◎)	Medical Informatics (◎)	
						Practice on Oral Anatomy (◎)	Laboratory Work in Oral Practice (◎)		
Skills for appropriately collecting, selecting, organizing, and presenting information regarding life science and dental medicine						Early Clinical Exposure (◎)			
Comprehensive Abilities	Rich humanity, understanding of professional responsibilities of a dentist, and general capabilities including basic knowledge, skills, and attitude required for putting such responsibilities into practice								
	Recognition of the importance of research, scientific intelligence, and creativity								
	Ability to think critically, solve problems, and engage in lifelong learning								
	Skills for appropriately communicating with patients, their families, and other medical staff								
	Ability for coping with change in society and progress in science related to dental medicine								
	Capabilities for coexisting and cooperating with persons from various cultures and regions, and for international communication								



Curriculum Map of (

Academic achievements		5 grade				6 grade				
Evaluation items		1 term	2 term	3 term	4 term	1 term	2 term	3 term	4 term	
Knowledge and Understanding	Knowledge & understanding of liberal arts including the humanities and natural sciences									
	Knowledge of the principles of medicine	English for Clinical Bio-Dentistry (◎)		International Future Dentistry with the Outcomes of Researches (◎)						
	Knowledge regarding basic and clinical dental medicine			Clinical Practice (◎)						
	Knowledge regarding related areas of medicine	International Future Dentistry	Advanced Course in Applied Oral Edentulous Patients (◎)		Clinical Practice (◎)					
		Advanced Course in Applied Oral Edentulous Patients (◎)	Advanced Course in Functional and Regenerative Oral Medicine (◎)							
		General DentistryII (◎)								
		General DentistryIII (◎)								
		Advanced Course in Oral and Maxillofacial Medicine (◎)								
	Knowledge of life sciences	Advanced Course in Growth and Development of Occlusion (◎)								
		General Seminar on Clinical Dentistry (◎)								
Knowledge & understanding of foreign languages and foreign cultures	Integrated lecture of basic and clinical dentistry (◎)									
	(◎)									
Abilities and Skills	Basic skills for prevention, examination, inspection, diagnosis, and treatment of diseases in areas of dental medicine	International Future Dentistry	Integrated lecture of basic and clinical dentistry (◎)	Clinical Practice (◎)						
	Basic skills required for conducting experiments and presentations	Dental Research Practices (◎)	Dental Research Practices (◎)	Clinical Practice (◎)						
	Skills for appropriately collecting, selecting, organizing, and presenting information regarding life science and dental medicine	Dental Research Practices (◎)	Dental Research Practices (◎)	Clinical Practice (◎)						
		English for Clinical Bio-Dentistry (◎)	General Seminar on Clinical Dentistry (◎)	Clinical Practice (◎)						
		Dental Research Practices (◎)	Dental Research Practices (◎)	Clinical Practice (◎)						
Comprehensive Abilities	Rich humanity, understanding of professional responsibilities of a dentist, and general capabilities including basic knowledge, skills, and attitude required for putting such responsibilities into practice	al Edentulous Patients (◎)	General DentistryII (◎)	Clinical Practice (◎)						
		General DentistryIII (◎)								
	Recognition of the importance of research, scientific intelligence, and creativity	Early Clinical Exposure (◎)								
		ine (◎)								
	Ability to think critically, solve problems, and engage in lifelong learning	ine (◎)								
		(◎)								
	Skills for appropriately communicating with patients, their families, and other medical staff			Clinical Practice (◎)						
				Clinical Practice (◎)						
Ability for coping with change in society and progress in science related to dental medicine			Clinical Practice (◎)							
			Clinical Practice (◎)							
Capabilities for coexisting and cooperating with persons from various cultures and regions, and for international communication			Clinical Practice (◎)							
	English for Clinical Bio-Dentistry (◎)									

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