

For entrants in FY 2026

Appended Form 1

Specifications for Major Program

Name of School (Program) [School of Dentistry, Program of Oral Health Sciences]

Program name	(Japanese)	口腔工学プログラム
	(English)	Bachelor's Program in Oral Engineering
1. Degree to be obtained: Bachelor of Oral Health Science		
2. Overview		
<p>The Program for Oral Health Science provides two courses (Course of Oral Science and Course of Oral Engineering) to educate students to become researchers, educators, or highly advanced medical staff in the area of oral health sciences while liaising with other areas such as medicine, engineering, and nursing in a manner based on scientific evidence. The Course of Oral Engineering aims to enable students to acquire knowledge, skills, and attitudes regarding medicine, dentistry, and engineering, from the basics to the cutting-edge, in order to be able to contribute to the fields of dental medicine and medical care with advanced techniques, knowledge, and rich humanity in line with changes in society and future development in the sciences. The educational program provided in this course educates medical staff in fields of highly advanced oral engineering, researchers in areas of oral health science, dental technicians, and educators.</p>		
3. Diploma policy (policy for awarding degrees and goal of the program)		
<p>Course of Oral Engineering educates students to be able to integrate knowledge and skills regarding dentistry, medicine, and engineering to work in the following positions in oral engineering:</p> <ul style="list-style-type: none"> ▪ Dental medical staff with the mindset of researchers, and business people, researchers, and educators with a clinical mindset; ▪ Oral engineers who can work in international fields; ▪ Educators and researchers who can pioneer fields of oral engineering and establish, systematize, and develop them to a highly specialized level; or ▪ Medical staff, educators, and researchers with a deep devotion to humanity, ethics, a deep human spirit, and a decisive sense of responsibility. <p>Based on the aims above, this program will award the degree of bachelor of oral health sciences to students who have acquired the capabilities described below and earned the required credits for the educational course.</p> <p>(1) The ability to integrate and exercise knowledge and skills regarding liberal arts subjects, dental technology, basic dental medicine, clinical dental medicine, adjacent medicine, and related areas</p>		

of engineering;

(2) The normative awareness and manner, together with the knowledge, skills, and communication abilities required for medical staff, and a capability for establishing good relationships with patients and staff, and contributing to patient-oriented team dental medicine; and

(3) The ability to take a leading role in research, education, and clinical fields related to oral engineering, based on state-of-the-art knowledge, advanced skills, information gathering skills, problem solving abilities, an inquiring scientific mind, research capabilities, logical thinking skills, and an ability for lifelong study.

4. Curriculum policy (policy for arranging and implementing the curriculum)

To enable students to achieve the targets that are defined for Course of Oral Engineering, the educational course is organized and implemented according to the following policies:

(1) In the first year, students study liberal arts subjects, together with students in other schools, in order to acquire a wide-ranging intelligence and establish the intellectual foundation required for dental medical staff. In addition to this, through PBL (Problem Based Learning) in the liberal arts seminars, students also acquire the basic attitude, skills, and knowledge required for self-disciplined study. Furthermore, they acquire fundamental knowledge regarding specialized areas in order to establish the foundation for enhancing professional knowledge and skills.

(2) From the second to the fourth year, students study specialized subjects to acquire expertise and specialized skills. The specialized subjects include not only those related to dental technicians but also those regarding basic sciences such as life science, dentistry, adjacent medicine, and engineering such as system engineering and IT.

(3) In the third and fourth terms of the third year and in the fourth year, students take the subject "Clinical Practice in Oral Health Engineering" that is provided at the university hospital in order to practice the knowledge and skills that they have acquired up to this time. Students are expected, through this practice, to learn skills and knowledge regarding the tasks of an oral engineer, specialized dental medicine, general dental medicine, and team medicine at a university hospital, and to acquire communication abilities, the normative awareness and manner required for medical staff, social skills, a cooperative mindset, and sound judgment.

(4) In the third and fourth terms of the third year and in the fourth year, students take the subject "Special Study for Graduation" to acquire information gathering skills, problem solving abilities, research capabilities, logical thinking skills, and presentation skills, and to foster an inquiring scientific mind, positiveness, flexibility, creativity, and patience.

(5) This course provides a bio-dental education program and IPE that aims to educate students to foster their scientific inquiring mind and acquire advanced knowledge and medical techniques that make them capable of cooperating with experts in various professions.

Academic achievement is evaluated based on the grade scores for the subjects and the

achievement level against the target defined for each educational program.

5. Start time and acceptance conditions

In the first year (when the student enters the university)

In the Program for Oral Health Science, the entrance examination is held for each course. This course is organized only for students who enter the Course of Oral Engineering in the Program for Oral Health Science in the School of Dentistry.

6. Obtainable qualifications

Qualification for the national examination for dental technicians (awarded when the student graduates.)

Students who have earned the credit specified separately are eligible to be awarded the degree in cell culture engineering certified by the Japanese Tissue Culture Association; and to obtain the Basic Grade 2 Certificate for Rehabilitation Make-up from Reiko Kazki Co., Ltd.

7. Class subjects and their contents

* For the class subjects, refer to the subject table in Attached Sheet 1.

* For the details of the class subjects, refer to the syllabus that is published for each academic year.

8. Academic achievement

The evaluation criteria are specified for each evaluation item for academic achievement, and the achievement level against the criteria is designated at the end of each semester.

The evaluation score for each evaluation item is converted to a numerical value (S = 4, A = 3, B = 2, and C = 1) and the evaluation standard for academic achievement, from when the student entered the university to the end of the last semester, is determined using these values while applying weightings. The evaluation standards consist of three levels, i.e. Excellent, Very Good, and Good.

Achievement evaluation	Numerical conversion
S (Excellent: 90 or more points)	4
A (Very good: 80 - 89 points)	3
B (Good: 70 - 79 points)	2
C (Passed: 60 - 69 points)	1

Academic achievement	Evaluation standard
Excellent	3.00 - 4.00
Very Good	2.00 - 2.99
Good	1.00 - 1.99

* Refer to the relationship between evaluation items and evaluation criteria described in Attached Sheet 2.

* Refer to the relationship between evaluation items and class subjects described in Attached Sheet 3.

* Refer to the curriculum map in Attached Sheet 4.

Study achievement in the course (specific knowledge, skills, and attitude that students can obtain)

○ Knowledge & understanding

1. Knowledge and understanding related to liberal arts such as human and natural sciences
2. Knowledge and understanding related to foreign languages and culture
3. Knowledge and understanding related to the principles of medicine
4. Knowledge and understanding related to the basic attitude required for dental medical staff (dental technicians)
5. Knowledge and understanding related to social dentistry
6. Knowledge and understanding related to life science
7. Knowledge and understanding related to dental materials and biomaterials
8. Knowledge and understanding related to the prevention, medical examination, medical testing, diagnosis, and treatment of disease in areas of dentistry and adjacent medicine
9. Knowledge and understanding related to the specialized fields of dental technicians (dental technology)
10. Knowledge and understanding related to engineering (information processing, CAD/CAM, ME (medical engineering), system engineering, and management science)

○ Abilities and skills

1. Communication skills required for dental medical staff (dental technician)
2. Abilities and skills related to life science, material science, and social dentistry
3. Abilities, skills, and attitudes related to prevention, medical examination, medical testing, diagnosis, and treatment of disease in the regions of the mouth, jaw, and face

4. Abilities, skills, and attitude required for practically applying techniques in the specialized fields of dental technicians (dental technology) as a member of a dental medical team

5. Abilities and skills required for applying related engineering (information processing, CAD/CAM, ME (medical engineering), system engineering, management science, and bio-technology)

○ Comprehensive capability

1. Comprehensive capability and attitude for autonomously and positively studying for the whole of one's life as a member of dental medical staff (dental technician)

2. Comprehensive capability and attitude related to medical testing, diagnosis, treatment, and prevention of disease in the regions of the mouth, jaw, and face

3. Comprehensive capability and attitude required for practically applying techniques in the specialized fields of dental technicians (dental technology)

4. Comprehensive capability for gathering, selecting, logically organizing, and presenting information

5. Comprehensive capability required for problem identification, research planning and promotion, results analysis, and presentation of results in a field related to oral engineering

9. Graduation thesis (graduation research) (meaning, student allocation, timing, etc.)

Students are required to prepare their graduation theses.

① Purpose

To enable students to establish a foundation of knowledge and techniques required for research, in order to allow them to make a smooth start in their research at a higher level when they enter the graduate school.

② Overview

Students are allocated to one of the departments, i.e. Anatomy and Functional Restorations, Medical System Engineering, and Oral Biology and Engineering. The contents of research vary depending on the department. The details of each department are introduced in the guidance of "Special Study for Graduation." Students join cutting-edge research activities in which the faculty is engaged, or identify a problem regarding oral health sciences by themselves and conduct the research to solve it. They are expected to acquire information gathering skills, problem solving abilities, research capabilities, and logical thinking skills through this process.

③ Student allocation timing and method

Students are allocated to the department in the second semester of the third year. Although the allocation method is separately defined, a great deal of importance is attached to the wishes of the student.

10. Responsibility

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

Table of Registration Standards for Liberal Arts Education Subjects, School of Dentistry

<Bachelor's Program in Oral Engineering>

Type	Subject type		Required No. of credits	Class subjects, etc.	No. of credits	Type of course registration	Year in which the subject is taken (Note 1)					
							1st grade		2nd grade			
							1st semester	2nd semester	3rd semester	4th semester		
Liberal Arts Education Subjects	Peace Science Foundation Courses	Peace Courses	2		2	Elective/required			○			
		Collaborative Peace Studies Courses	1		1	required	○					
	Basic Courses in University Education	Introduction to University Education		2	Introduction to University Education	2	Required	○				
		Liberal Arts Education		2	Introductory Seminar for First-Year Students	2	Required	○				
		Advanced Seminar		0	Advanced Seminar	1	Freeelective	○	○			
	Common subjects	Area Courses			2	General Health and Oral Sciences I	2	Required	○			
					2	General Health and Oral Sciences II	2	Required		○		
					4	From Courses in Arts and Humanities / Social Sciences (Note 2)	1 or 2	Elective/required	○	○		
		Foreign Language Subjects	English	Communication Basic	2	Communication Basic I	1	Required (Note 3) (Note 4)	○			
				Communication Basic II	1				○			
			Communication I	2	Communication IA	1			○			
				Communication IB	1				○			
			Communication II	2	Communication IIA	1				○		
				Communication IIB	1					○		
			Initial Program Languages (You have to select one language from German, French and Chinese.)			4	Basic Foreign Language Subjects I		1	Elective/required (Note 5)	○	
					Basic Foreign Language Subjects II	1		○				
					Basic Foreign Language Subjects III	1			○			
					Basic Foreign Language Subjects IV	1			○			
		Information and Data Sciences Subjects			2	Introduction to Information and Data Sciences	2	Required (Note 6)	○			
					2	From courses in Information and Data Sciences Subjects	2	Elective/required		○		
	Health and Sports Subjects			2	Health and Sports Sciences	2	Elective/required	○	○			
					Practicum in Sports A	1			○	○		
					Practicum in Sports B	1			○	○		
					Sports Theory and Exercise	1			○	○		
	Social Cooperation Courses			0		1 or 2	Free elective	○	○			
	Basic Subjects			2	Psychology for Medical Care Workers	2	Required (Note 7)		○			
		2	Development of International Collaboration in Medical Science	2	Required	○						
		4	Foundation biology for life science (Note 8)	2	Elective/required (Note 10)	○						
			Cell Science	2				○				
			General Chemistry	2			○					
			Foundation physics for life science (Note 9)	2			○					
			2	Fundamental Physics I	2			○				
		2	Basic Calculus	2	Elective/required	○						
			2	Basic Linear Algebra		2		○				
Total			41									

- Note 1 : Semesters marked with ○ are the standard semesters for taking related subjects. If you failed to obtain the credit(s) in said semester, you may take the subject again in later semesters. Since the semester in which the subject is actually provided may be changed, you should confirm the accurate semesters by the relevant documents such as annual class tables for Liberal Arts Education.
- Note 2 : If you acquire excessive credits from Elective/required subjects of Information and Data Sciences Subjects, within 4 credits of them will be considered as credits of Courses in Arts and Humanities / Social Sciences in Area Courses.
- Note 3 : If you have obtained more than the required credits by taking the classes of Area Courses and Social Cooperation subjects which the Language of Instructions are [E: English] on Syllabus, you can substitute for English credits (6 credits) necessary for graduation. For details, see the items related to Liberal Arts Education in the Hand book for Students.
- Note 4 : You can substitute the credits which you have obtained by taking the "Online English Seminar I, II & III" based on self-learning for English credits (6 credits) necessary for graduation. Also, there is a Credit Transfer System based on foreign language proficiency tests and language training. For details, see the items related to English in Liberal Arts Education and "Handling of Credit Accreditation Based on Foreign Language Proficiency Tests, etc." in the Hand book for Students.
- Note 5 : There is a Credit Transfer System based on foreign language proficiency tests. For details, see the items related to English in Liberal Arts Education in the Hand book for Students.
- Note 6 : When failing to earn the credit for "Introduction to Information and Data Sciences" is it allowed to take the subject from courses in Information and Data Sciences Subjects.
- Note 7 : Only when failing to earn the credit for "Psychology for Medical Care Workers" is the credit for the subject "Psychology A" or "Psychology B" accepted as that for the information subjects required for graduation (2 credits).
- Note 8 : Students who did not take the subject "Biology" in the Common Test for University Admissions are required to take the subject "Foundation biology for life science."
- Note 9 : Students who did not take the subject "Physics" in the Common Test for University Admissions are required to take the subject "Foundation physics for life science."
- Note 10 : It is required to choose two groups from the subject groups of biology, chemistry, and physics and to earn credit for one subject for each chosen group.

<Bachelor's Program in Oral Engineering>

Subject type	Class Subject	Minimum No. of credits required	Year in which the subject is taken								Note				
			1st grade		2nd grade		3rd grade		4th grade						
			1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester					
Specialized Education Subjects	⊙ Practice in Crown Restoration and Health Engineering (Facing Crown and Implant Superstructure II)	1						1							
	⊙ Practice in Crown Restoration and Health Engineering	1												1	
	⊙ Removable Denture and Health Engineering (Complete Denture)	2		2											
	⊙ Removable Denture and Health Engineering (Partial Denture)	2			2										
	⊙ Practice of Removable Denture and Health (Complete Denture)	2				2									
	⊙ Practice of Removable Denture and Health (Partial Denture)	2				2									
	⊙ Practice of Removable Denture and Health (Anaplastology I)	1						1							
	⊙ Practice of Removable Denture and Health (Anaplastology II)	1						1							
	⊙ Practice of Removable Denture and Health (Implant Superstructure)	1							1						
	⊙ Practice of Removable Denture and Health	1												1	
	⊙ Esthetic Dentistry	1				1									
	⊙ Practice on Medical Design and Engineering	1												1	
	⊙ Practice of Oral Process Engineering	1												1	
	⊙ Clinical Practice in Oral Health Engineering	13							1	6	6				
	⊙ Medical Design Engineering I	1							1						
	⊙ Medical Design Engineering II	1							1						
	⊙ Disaster Dentistry and Forensic Odontology	1							1						
	⊙ Dysphagia Rehabilitation	1							1						
	⊙ Special Study for Graduation	9								6	2	1			
	Special Course in Rehabilitation Make Up	1							1						
⊙ Research Start-Up	1				1										
	Seminar of International Dentistry A	1												Offered in odd-numbered semesters. Can be taken repeatedly.	
	Seminar of International Dentistry B	1												Offered in even-numbered semesters. Can be taken repeatedly.	
Total		111	3	6	27	17	22	16	8	12					

⊙ indicates required subjects

Necessary credits for graduation : 152 credits

Liberal Arts Education Subjects

Peace Science Courses	2 credits
Collaborative Peace Studies Courses	1 credits
Basic Courses in University Education	4 credits
Common subjects	
Area Courses	8 credits
Foreign Languages	
English	6 credits
Non-English Foreign Languages	4 credits
Information and Data sciences Subjects	4 credits
Health and Sports Courses	2 credits
Foundation Courses	10 credits
Liberal Arts Education Subjects	41 credits

Specialized Education Subjects

Basic Specialized Courses	24 credits
Specialized Courses	87 credits

Specialized Education Subjects 111 credits

Academic achievements of Bachelor's Program in Oral Engineering

Relationships between the evaluation items and evaluation criteria

Academic achievements		Evaluation criteria		
Evaluation items		Excellent	Very Good	Good
Knowledge and Understanding	(1) Knowledge and understanding of liberal arts such as humanities and natural science	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) The knowledge and understanding on foreign languages and culture	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 and understanding on 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.
	(4) Knowledge and understanding of basic behavior as a dental professional (a dental technician)	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 and understanding of social dentistry	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 and understanding of life science	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.
	(7) Knowledge and understanding of dental materials and biomaterials	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.
	(8) Knowledge and understanding of disease prevention, treatment, diagnosis, and medical check-up concerning dentistry and other related studies	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.
	(9) Understanding and knowledge of dental technician (dental technology)	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.
	(10) The knowledge and understanding on related engineering (information processing, CAD/CAM, ME (medical engineering), system engineering, management)	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) Communication skills as a dental professional (a dental technician)	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) Abilities and skills concerning life science, materials technology, and social dentistry	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) The ability • skills and attitude related to prevention • examination • diagnosis • treatment of diseases in oral • maxillofacial region	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.
	(4) The capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team	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.
	(5) The ability and skills to apply related engineering (information processing, CAD/CAM, ME (medical engineering), system engineering, management, biotechnology)	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.
Comprehensive Abilities	(1) Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life	As a dental technician, to be able to learn independently, proactively, and continuously.	As a dental technician, to be able to learn independently and proactively.	As a dental technician, to be able to learn independently.
	(2) The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral • maxillofacial region	Being able to generalize knowledge in related to investigation, diagnosis, treatment and prevention in oral • maxillofacial region and make an appropriate action and judgement.	Being able to generalize knowledge in related to investigation, diagnosis, treatment and prevention in oral • maxillofacial region and make an appropriate action and judgement.	Being able to generalize knowledge in related to investigation, diagnosis, treatment and prevention in oral • maxillofacial region.
	(3) The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team	Being able to conduct dental techniques thinking of necessary needs and encouraging appropriately based on understanding each professional roles.	Being able to conduct dental techniques encouraging appropriately based on understanding each professional roles.	Being able to conduct dental techniques acknowledging being a member of a team
	(4) Comprehensive ability to separate necessary and unnecessary information, summarize and output it	To be able to collect, logically summarize and analyze required data. After that process, to be able to extract problems, consider solutions and present them.	After collecting, logically summarizing and analyzing information, to be able to output it with speculation.	To be able to output information which are collected and summarized.
	(5) The general ability necessary to discover the issues on oral engineering and conduct research planning • promotion • result analysis • result presentation	Being able to discover oral engineering issues and plan • promote the research, as well as analyze and present the results.	Being able to discover oral engineering issues and plan • promote the research, as well as present the results.	Being able to plan • present the research on oral engineering issues.

Placement of the Liberal Arts Education in the Major Program

Students are expected to form the academic foundation required for specialized education, study wide range of subjects regarding human and social sciences and foreign languages, acquire knowledge, and foster an intellectual curiosity and the ability to take action. In addition, they are expected to acquire communication skills, a cooperative mindset, and information gathering abilities in order to establish the basis for personal development as a medical staff.

Curriculum Map of Program of Oral Engineering

Academic achievements Evaluation items	1st grade		2nd grade		3rd grade		4th grade		
	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	
Knowledge and understanding	Knowledge and understanding of liberal arts such as humanities and natural science	① Basic Courses in University Education ① Area Courses ① Health and Sports Subjects ① Basic Subjects ① Peace Science Foundation Courses	① Area Courses ① Health and Sports Subjects ① Basic Subjects ① Peace Science Foundation Courses	① Peace Science Foundation Courses					
	The knowledge and understanding on foreign languages and culture	① Foreign Language Subjects △ Seminar of International Dentistry A	① Foreign Language Subjects △ Seminar of International Dentistry B	△ Seminar of International Dentistry A	△ Seminar of International Dentistry B	△ Seminar of International Dentistry A	△ Seminar of International Dentistry B	△ Seminar of International Dentistry A △ Seminar of International Dentistry B	
	Knowledge and understanding on principles of medicine			① Medical ethics					
	Knowledge and understanding of basic behavior as a dental professional (a dental technician)	① Introductory course for oral engineering				① Team Care for Oral Health	① Laws and Regulations for Dental Technicians (included Social Security System)		
	Knowledge and understanding of social dentistry				① Social Dentistry		① Disaster Dentistry and Forensic Odontology		
	Knowledge and understanding of life science	① Anatomy and Oral Anatomy	① Physiology and Oral Physiology	① Basic Class of Oral Science ① Tooth Morphology ① Histology and Oral Histology ① Microbiology and Oral Microbiology △ Immunology ① Basic Biochemistry (included Food Science)					
	Knowledge and understanding of dental materials and biomaterials			① Dental Material ① Biomaterials ① Precision Casting Science					
	Knowledge and understanding of disease prevention, treatment, diagnosis, and medical check-up concerning dentistry and other related studies			① Pharmacology and Dental Pharmacology ① Pathology and Oral Pathology △ Oral Health	① Endodontology ① Periodontology ① Esthetic Dentistry	① Oral Surgery and Anesthesiology I ① Oral Surgery and Anesthesiology II ① Dentistry for Persons with Disabilities ① Lifestyle-related Dentistry /Geriatric Dentistry ① Pediatric Dentistry ① Dysphagia Rehabilitation	△ Clinical Medicine		
	Understanding and knowledge of dental technician (dental technology)		① Crown Restoration and Health Engineering I ① Removable Denture and Health Engineering (Complete Denture)	① Stomatognathic System and Function ① Crown Restoration and Health Engineering II ① Removable Denture and Health Engineering (Partial Dentures)	① Crown Restoration and Health Engineering III	① Overview of Oral Engineering I ① Overview of Oral Engineering II ① Orthodontics ① Medical System Engineering			
	The knowledge and understanding on related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management)	① Information and Data Sciences Subjects	① Information and Data Sciences Subjects ① CAD/CAM System Engineering		① Medical Informatics ① Medical Equipment				
Abilities and Skills	Communication skills as a dental professional (a dental technician)								
	Abilities and skills concerning life science, materials technology, and social dentistry			① Practice on Biomaterial	① Practice on Precision Casting Science				
	The ability • skills and attitude related to prevention • examination • diagnosis • treatment of diseases in oral • maxillofacial region				① Research Start-Up	① Quality and Safety Management in Dentistry △ Special Course in Rehabilitation Make Up			
	The capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team			① Practice on Oral Anatomy I ① Practice on Stomatognathic System and Function ① Practice in Crown Restoration and Health Engineering (Inlay)	① Practice on Oral Anatomy II ① Practice in Crown Restoration and Health Engineering (Crown I) ① Practice in Crown Restoration and Health Engineering (Crown II) ① Practice of Removable Denture and Health (Complete Denture) ① Practice of Removable Denture and Health (Partial Denture)	① Health Science on Sports Dentistry and Temporomandibular ① Practice in Crown Restoration and Health Engineering (Bridge I) ① Practice in Crown Restoration and Health Engineering (Bridge II) ① Practice in Crown Restoration and Health Engineering (Facing Crown and Implant Superstructure I) ① Practice in Crown Restoration and Health Engineering (Facing Crown and Implant Superstructure II) ① Practice of Removable Denture and Health (Anaplastology I) ① Practice of Removable Denture and Health (Anaplastology II)	① Practice of Pediatric Dentistry ① Practice of Orthodontics I ① Practice of Orthodontics II ① Practice of Removable Denture and Health (Implant Superstructure) ① Clinical Practice in Oral Health Engineering	① Clinical Practice in Oral Health Engineering ① Practice on Applied Biomaterial ① Practice in Crown Restoration and Health Engineering ① Practice of Removable Denture and Health ① Clinical Practice in Oral Health Engineering	
	The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)					① Practical Training on Digital Dentistry	① Practical Training on Digital Dentistry		
	Comprehensive Abilities	Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life	① Introductory course for oral engineering				① Medical Design Engineering I ① Medical Design Engineering II ① Special Study for Graduation	① Special Study for Graduation	① Special Study for Graduation
		The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral • maxillofacial region					① Clinical Practice in Oral Health Engineering	① Clinical Practice in Oral Health Engineering	① Practice on Medical Design and Engineering ① Practice of Oral Process Engineering ① Clinical Practice in Oral Health Engineering
The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team						① Clinical Practice in Oral Health Engineering	① Clinical Practice in Oral Health Engineering	① Practice on Medical Design and Engineering ① Practice of Oral Process Engineering ① Clinical Practice in Oral Health Engineering	
Comprehensive ability to separate necessary and unnecessary information, summarize and output it		△ Seminar of International Dentistry A	△ Seminar of International Dentistry B	△ Seminar of International Dentistry A	△ Seminar of International Dentistry B	△ Seminar of International Dentistry A	① Medical Design Engineering I ① Medical Design Engineering II ① Seminar of International Dentistry B ① Special Study for Graduation	△ Seminar of International Dentistry A ① Special Study for Graduation	△ Seminar of International Dentistry B ① Special Study for Graduation
The general ability necessary to discover the issues on oral engineering and conduct research planning • promotion • result analysis • result presentation							① Special Study for Graduation	① Special Study for Graduation	① Special Study for Graduation

(Ex) Liberal Arts Education Subjects

Basic Specialized Courses

Specialized Courses

Special Study for Graduation

① Required

△ Free elective

Program member list of Bachelor's Program in Oral Engineering

04/01/2026

Mail : Please add "@hiroshima-u.ac.jp"

Name	Position	Laboratory name	Mail
KAKU MASATO	Professor	Anatomy and Functional Restorations	mkaku
SHIMOE SAIJI	Associate Professor	Anatomy and Functional Restorations	shimoe
MINE YUICHI	Lecturer	Medical System Engineering	mine
NIKAWA HIROKI	Professor	Oral Biology & Engineering	hirocky
TAJI TSUYOSHI	Associate Professor	Oral Biology & Engineering	taji
OKADA YOSHIYUKI	Professor	Division of Oral Health and Development	okay