Appendix 1.1.2

YUCD BULLETIN

Yonsei University
College of Dentistry

Academic Year: 2013-2014
Appendix 1.1.2

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## General Information

### ACADEMIC CALENDAR

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<th>Event</th>
</tr>
</thead>
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<tr>
<td>March, 2013 – Feb., 2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>18 – 22</td>
<td>Registration for the First Semester</td>
</tr>
<tr>
<td>March</td>
<td>1</td>
<td>Sam II Memorial Day Holiday</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>First Semester Begins</td>
</tr>
<tr>
<td>April</td>
<td>5</td>
<td>Arbor Day</td>
</tr>
<tr>
<td></td>
<td>22-27</td>
<td>Mid-term exam</td>
</tr>
<tr>
<td>May</td>
<td>5</td>
<td>Children's Day</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Yonsei University Foundation Day</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>Buddha's Birthday</td>
</tr>
<tr>
<td>June</td>
<td>6</td>
<td>National Memorial Day</td>
</tr>
<tr>
<td></td>
<td>17-29</td>
<td>First semester final exam</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>Summer break begins</td>
</tr>
<tr>
<td>July</td>
<td>17</td>
<td>Constitution Day</td>
</tr>
<tr>
<td>August</td>
<td>15</td>
<td>Liberation Day</td>
</tr>
<tr>
<td></td>
<td>23 – 30</td>
<td>Registration for the Second Semester</td>
</tr>
<tr>
<td>September</td>
<td>2</td>
<td>Second Semester Begins</td>
</tr>
<tr>
<td></td>
<td>13 – 15</td>
<td>The harvest Festival</td>
</tr>
<tr>
<td>October</td>
<td>7 – 8</td>
<td>Dental College Festival</td>
</tr>
<tr>
<td></td>
<td>21-26</td>
<td>Second semester mid-term exam</td>
</tr>
<tr>
<td>December</td>
<td>16 – 28</td>
<td>Second Semester Final Exam</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>Winter break begins</td>
</tr>
</tbody>
</table>

* Calendar dates are subject to change.
INTRODUCTION

A Brief History of Yonsei University
Since the founding of the university in 1885, the Yonsei University has known for its remarkable growth both in quantity and quality through the difficult years of Japanese colonization and transitional period following World War II. The Yonsei University is the product of a merger of two interdenominational institutions founded by Protestant missionaries to Korea. In 1957, Yonsei College and Severance Union Medical College merged into one institution named Yonsei University. The merger of the two institutions had been planned since 1928. The University now has 13 graduate schools and 17 colleges, including three in the medical complex and four in Wonju city, and 78 undergraduate academic departments.

Yonsei University College of Dentistry
Modern dentistry was first introduced to Korea in 1915 by Dr. W.J. Scheifley, who established the Department of Dentistry in Severance Union Medical College. In the early years, dental treatment took place in the Severance Hospital building. The new Director of Department of Dentistry, Dr. J.L. Boots, who succeeded Dr. Scheifley, was determined to build a separate building for dental patients. After five years of fund raising in the States, the first modern dental health center in Korea was built next to Severance Hospital in October 1931. When the merger of Severance Union Medical College and Yonsei University in 1957 occurred, the Department of Dentistry in Severance Union Medical College was moved to the present location in 1962.

Yonsei University College of Dentistry (YUCD) was accreditated by the Ministry of Education in 1967, and the first class of 40 students was admitted and began taking the predental courses in 1968. By 1977, the YUCD moved into a 5-story building and in 1995 a new dental hospital building was constructed, which at the time was the largest dental clinic in Korea, equipped with the latest up-to-date digital systems. The YUCD is one to the leading dental schools. Our goal is to provide the highest quality dental education and clinical training. The YUCD has adopted several educational programs such as problem based learning (PBL) and field study to expose the students to new challenges and opportunities. YUCD and Yonsei University Dental Hospital are well equipped to offer students the very best dental education they deserve. The YUCD was the first school to have a student clinic in Korea, allowing students to have the opportunity to practice dentistry under the supervision of professional specialists. In 1996, YUCD was rated as the best dental school by Korean Council for University Education in the categories of dental education and dental research, and has been making its mark as a leading dental school in Korea.
Mission and Visions

Mission:
In the spirit of God, creativity leading compassionate dentistry to serve humanity.

Vision: The Yonsei University College of Dentistry and Dental Hospital will strive to achieve the following.
( i ) a premier institution where dedicated, creative minded dental professionals are being trained.
( ii ) a leading institution where advances in dental sciences and technology are vigorously pursued,
( iii ) a patient oriented dental clinic, filled with caring and compassionate spirit
( iv ) a caring and devoted institution to our community.

Administration
College of Dentistry
Dean: Lee, Keun Woo, D.D.S.,Ph.D
Vice Dean for Academic Affairs: Kim, Kwang Mahn, D.D.S.,Ph.D
Vice Dean for Student Affairs: Kim, Kee Deog, D.D.S.,Ph.D
Vice Dean for Graduate Affairs: Yu, Hyung Seog, D.D.S.,Ph.D
Vice Dean for Research Affairs: Shin, Dong Min, D.D.S., Ph.D
Director for International Affairs: Cha, Jeong Heon, Ph.D
Director for Continuing Education Center: Kim, Seong Taek, D.D.S.,Ph.D

Dental Hospital
General Director for Yonsei University Dental Hospital: Cho, Kyoo Sung, DDS, Ph.D.
Director for Clinical Affairs: Choi, Hyung Jun, DDS, Ph.D.
Director for Education & Research: Kim, Euiseong, DDS, Ph.D.
Director for Central Dental Laboratory: Moon, Hong Seok, DDS, Ph.D.
Director for Predoctoral Student Clinic: Kim, Seong Oh, DDS, Ph.D.

Department Chair
Dept. Oral Biology: Kim, Hee Jin, D.D.S.,Ph.D
Dept. Oral Pathology: Yook, Jong In, D.D.S.,Ph.D
Dept. Preventive Dentistry & Public Oral Health: Kim, Baek Il, D.D.S.,Ph.D
Dept. Dental Biomaterials & Bioengineering: Kim, Kwang Mahn, DDS, Ph.D.
Dept. Orthodontics: Kim, Kyung Ho, D.D.S.,Ph.D
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Dept. Oral & Maxillofacial Radiology: Park, Chang Seo, D.D.S.,Ph.D
Dept. Conservative Dentistry: Park, Sung Ho, D.D.S.,Ph.D
Dept. Prosthodontics: Shim, June-Sung, D.D.S.,Ph.D
Dept. Pediatric Dentistry: Lee, JaeHo, D.D.S.,Ph.D
Dept. Periodontology: Kim, Chang Sung, D.D.S.,Ph.D
Dept. Advanced General Dentistry: Kim, Kee Deog, D.D.S.,Ph.D

Academic and Clinical Departments and Research Groups

The Dean of the school is fully responsible for all matters related to day-to-day operations of the YUCD from personnel and financial issues, and is assisted by four associate deans, Vice Dean for Academic Affairs, Vice Dean for Student Affairs, Vice Dean for Graduate Affairs and Vice Dean for Research Affairs. The Yonsei University Dental Hospital (YUDH) is the responsibility of the General Director for YUDH.

Basic Science: Department of Oral Biology
Department of Oral Pathology
Department of Preventive Dentistry & Public Oral Health
Department of Dental Biomaterials & Bioengineering

Clinical Science: Department of Conservative Dentistry
Department of Oral & Maxillofacial Radiology
Department of Oral & Maxillofacial Surgery
Department of Orofacial Pain & Oral Medicine
Department of Orthodontics
Department of Pediatric Dentistry
Department of Periodontology
Department of Prosthodontics
Department of Advanced General Dentistry

Research Institutes: Institute of Human Identification
Oral Science Research Institute
Oral Cancer Research Institute
The Craniofacial Deformity Institute
Research Institute for Dental Biomaterials & Bioengineering
Research Institute for Periodontal Regeneration
Research Center for Orofacial Hard Tissue Regeneration
Dental Device testing & Evaluation Center
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Center for Dental Education Development

Facilities

Medical Library
The Medical library is housed in the northern part of the Medical Science Building and serves the School of Medicine, College of Dentistry, School of Nursing, and the Graduate School of Public Health. The library is one of the largest medical libraries in the country, with 164,000 books, 604 subscription periodicals, and 2,100 audio-visual materials. The library offers a wide array of services, including instruction on using library and electronic resources, individual consultation on research topics, reserve readings, international interlibrary loan program, and a facsimile service. The library provides complete photocopying service for a nominal charge. Information on these services is available at the reference desk, as well as online through the Internet: http://ymlib.yonsei.ac.kr. In addition, more than 4,900 journals and 105 books are available online through the Electronic Journal. The library offers online data retrieval from MEDINE, CINAHL, CCIS, and MD Consult. The Audiovisual-Photographic Section has the capacity to produce and edit film, take pictures, and make posters for instructions and presentations.

Dental Museum
The Yonsei University Dental Museum, opened in November, 2006, exhibits the history of western and traditional dentistry in Korea. The YUCD made a concerted effort to preserve its history and to collect textbooks, journals, instruments, and documents of historical significance in dental education and dental practice in Korea. The museum puts on display the developmental process of present Korean dentistry, world history of dental science and historic dental relics. The museum puts special emphasis upon the history of how the western dentistry was introduced to Korea.

Fitness Center
To promote good health among students, faculty and staff, a fitness center, 130 square meters in size, was built in the basement of the dental building. It has three treadmills, three health cycles, and other exercise equipments. To use the fitness center, one must register at the Administration Office.

Rooms for Student Council
The student activities area on the second floor of the dental school holds a student association room, a female student lounge, and five rooms for student clubs.

Student Lounge
The student lounge is located on the second floor of the dental school building. Vending machines are provided on the second floor for the convenience of students.

Computer Room
The computer room on the second floor of the dental school building currently has 15 latest model computers with internet access and connected to a printer for students. The computer room is open from 7:00 am to 10:00 pm, Monday through Saturday.

PBL Room
Problem based learning (PBL) is a student-oriented learning method designed to develop and improve critical thinking and self-learning capabilities by encouraging students to integrate their scientific knowledge in solving problems as presented in a clinical case format. Yonsei University College of Dentistry has 10 rooms dedicated to PBL.

Student Dormitories
There are four dormitories for the dental students, located near the North Gate of the Yonsei University. One of the dormitories was built in 1998 from the generous donations of alumni. This dorm is divided into two buildings: Building A for the female students and Building B for the male students. The dorm complex had a chapel, a conference room, a recreation room, a fitness room and a study hall.

Admissions
The Yonsei University College of Dentistry selects entering students by two admissions procedures, as we have two tracks for dental program. One is a six-year dental education post secondary school that is common among many countries outside the U.S. and Canada. The other is the U.S. system of a four-year dental education post undergraduate. The number of incoming students to Yonsei University College of Dentistry totals 60 each year. The Department of Pre-Dentistry admits 30 students every year through regular admissions on a competitive basis, which is based on the applicant's national scholastic aptitude test, an essay and an admissions interview. In addition, Korean citizens residing abroad, international students, disadvantaged students, and rural residents are selected under a preferential admissions program. A maximum of 10% of the pre-dentistry quota can be filled by applicants under the preferential program. Those who are interested in pre-doctoral dental program at Yonsei University College of Dentistry should contact the Admissions Committee at the YUCD for the detailed information. Refer to the following contact address and phone numbers for the application forms and other inquiries. Those who are interested in the pre-doctoral dental
program should contact the Admissions Committee at the YUCD for detailed information.

Address: Yonsei University Office of Admissions  
134 Sinchon-dong, Seodaemun-gu,  
Seoul, South Korea 120-752

Homepage: http://dentistry.yonsei.ac.kr  
Dept. of Academic Affairs: +82-2-2228-3012 (FAX) 82-2-362-8618  
Dept. of Student Affairs: +82-2-2228-3013 (FAX) 82-2-362-8618  
Dept. of Graduate Affairs: +82-2-2228-3014 (FAX) 82-2-362-8618

**Tuition and Fees**
The tuition for College of Dentistry should be fully paid to the cashier at the Yonsei University branch of Woori Bank in Seoul no later than the last day of the registration period at the beginning of each semester. Students who do not meet their financial obligations to the YUCD will not be permitted to attend the classes and may not be able to register until the next semester. Even in the case of an extended absence, the tuition fees will not be refunded.

**Grading System**
Academic performance is evaluated by a relative grading system of A+, A, A-, B+, B, B-, ---, and F.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>35%</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>35%</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>20 ~ 30%</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>10 ~ 20%</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>0 ~ 10%</td>
</tr>
</tbody>
</table>

**Student Promotion to the next Class**
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A minimum grade point average of 1.75 without an F grade is required to advance to the next class. A student who gets an F in any of the courses will need to stay back and repeat the entire year.

**Graduation Requirements**

Students must have satisfactorily completed four full years of the required curricula with a minimum of 165 credits to graduate and receive their D.D.S degree. Eligible students are recommended to the president of Yonsei University to confer a Diploma of Doctor of Dental Surgery degree. The diploma is awarded by the President of the University at the graduation ceremony.

**National Dental Board Examination**

Graduates from Yonsei University College of Dentistry are eligible to take the National Dental Board Examination in order to receive a dental license to practice dentistry in Korea. The license examination is administered annually by the Ministry of Health, Welfare and Family Affairs in conjunction with the Korean Dental Association.

**Field Study Program (Specialized Elective Course)**

As part of a dental education attempting to prepare the students for the future challenges and to expand their global horizon, a two or three-week field study program is offered to the third year students at Yonsei University College of Dentistry since 1998. The students choose to visit dental schools in the U.S., Japan, China and other countries, spend the time shadowing dentists in their private practice or dental hospitals, work as interns at law firms to learn about medical laws, or engage in volunteer work in rural areas and overseas where an access to dental care service is limited.

**FINANCIAL AIDS**

**Loan**

Students may apply for tuition loan by signing up for student loan trust guarantee fund. The interested students should visit [www.studentloan.go.kr](http://www.studentloan.go.kr) to fill out a student loan application form. The authentication certificate will be issued by the internet banking site after opening an account with the bank. The YUCD recommends Woori Bank.

**Scholarships**
A number of scholarships are available to eligible dental students who maintain sound academic performance and demonstrate good moral and ethical character. Additional scholarship funds are available for those who have financial hardship, and children of the Yonsei University employees. Students who wish to be considered for scholarship should submit the following documents to the Office of Student Affairs by December for the first semester and by June for the second semester. In addition to the application form, letters of recommendation for faculty members and a proof of financial hardship are required. For detailed information, please contact the Yonsei University College of Dentistry.

**Student Research Grant**
Each year the YUCD earmarks 20,000,000 KRW (approximately, US $20,000) in research grant for qualified students to pursue student research projects.

**CURRICULUM**

**Courses for First Year**

**Introduction to Dental Science:** The objectives of this course are to provide motivation for the study of dental science by understanding the major oral disease and the social responsibilities of dentists.

**Anatomy:** By fostering an understanding of the structure of the human body, this course teaches a foundations of the knowledge that applies to both dentistry and the other fields of medical sciences.

**Dental Anatomy & Morphology:** This course aims at acquiring knowledge of morphological features and the functions of each tooth in order to establish an applicable diagnosis of oral disease and treatment plans.

**Histology:** The objective of histology is to enable the students to understand the normal functions of the human body through an integrated study on microscopic structures and cells.

**Biochemistry & Molecular Biology:** This course discusses the characteristics of biological substances and disease mechanisms which control various phenomena of life and
metabolism. This course involves examination of the process of genome organization and DNA replication, and the further attainment of biochemical knowledge in biological phenomena.

**Dental Biomaterials**: This course is designed to help students to understand the general nature of materials and the special features of dental biomaterials by exploring experience through laboratory exercises.

**Pathology**: Instruction in pathology investigates the cause and origin of occurrence of inevitable symptoms common to all diseases: cell damage, inflammation, hemodynamic impediment, immunity, tumor, and infection. This course helps the students to understand changes in patterns observed in each body part, and their clinical significance.

**Microbiology**: This course examines a variety of microscopic organisms and helps to understand their anatomy and metabolism. The objective of the course is to help students understand diseases caused by microscopic organisms and practical application to diagnosis, treatment and prevention.

**Dentistry in Society**: The essential knowledge on the interrelation between dental science and society will be acquired in this course, which includes the social aspects of health care.

**Physiology I**: This course offers comprehensive coverage of each organism related to the functions of the internal organs of the human body and promotes the understanding of the detailed concept of the phenomenon of life through the synthesis of these functions in the structure of cells.

**Tooth & Periodontal Disease I-1, I-2**: This course helps students to understand the developmental process of teeth, connective oral tissues, and the structure and functions of the pathogenesis of dental caries and periapical diseases. It will teach students to understand principle diagnosis and treatment planning of dental caries and periapical diseases.

**Preventive Dentistry I**: The course introduces the philosophy and concepts of preventive dentistry for students to acquire the knowledge that contributes to the improvement of public oral health and put it to practical use.
**Appendix 1.1.2**

**Pharmacology:** The focus of the course includes understanding the pharmaceutical effects and side effects of drugs, and the general principles of prescriptions the dentists should know.

**Restorative Dentistry I:** The concept of restorative dentistry and representative restoration material that can be directly used for restoration will be studied in this course.

**Craniofacial Growth & Development:** The process of craniofacial growth and development will be discussed in this course on the basis of fundamental dentistry. With the review of clinical consideration, this subject needs to be made applicable to other related clinical research.

**Physiology II:** This course is designed to teach students each original cause related to internal organs and the function of the human body. The course focuses on understanding the specific concept regarding the phenomenon of life with an explanation of the functional mechanism of human organs at the cell level.

**Introduction to Radiology:** This course covers the basic knowledge required for the introduction to dental radiology.

**Fixed Prosthodontics I:** This course focuses on the theory behind the fixed prosthodontic materials and guides their clinical applications.

**Immunology:** The students will acquire a necessary understanding of the basic principles of cell mediated and anti-body mediated immune responses. The course will explain the basic principles of excessive immune responses, self-immune diseases, the immune responses to viral and bacterial infection, the immune responses to tumor and to transplants that may occur within the human body.

**Occlusion I:** This course covers the concepts of occlusion necessary for tooth restorative treatment, orthodontic treatment, and restorative function treatment of oral structure through the understanding of the functional relationship of structural elements and the study of the connective tissue in occlusion of upper and lower tooth structures.

**Elective Lecture I:** Depending on their interests and preferences, students may select from the list courses for humanities and social dentistry.
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Courses for Second Year

Pediatric Dentistry: By focusing on the characteristics of children and teenagers who are in the process of growth and development, this course will enable students to understand and obtain a variety of theories concerning pedodontics and the knowledge necessary for dental treatment.

Tooth & Periodontal Disease II: This course aims to help students understand the progressive process of the periodontium by studying normal periodontal structure, disease theory on the periodontium, host-mediated responses, and partial cause of the periodontium.

Endodontics I: The objective of the course is to understand the pathological and biological phenomenon of pathogenesis on dental pulp and cementum.

Complete Denture Prosthodontics I: To help students understand the basic concept of total prosthodontic dentistry, a preclinical lecture is given for them to acquire basic dental prosthodontics. The basic concept of total prosthodontic dentistry and dental techniques required for operating on actual prosthodontic patients are practiced with models in the lab.

Preventive Dentistry II: The course aims at cultivating students with the necessary knowledge and capability to prevent and manage periodontal and oral diseases.

Removable Partial Prosthodontics I: Knowledge of basic prosthodontics for the treatment of partial edentulism patients with challenges such as disconfiguration, pronunciation, and appearance, using removable prosthodontic material, is acquired in this course. The actual manufacturing of partial prosthodontics will help students to understand the contents of the lectures, develop their ability to perform technical work, facilitate communications with dental technicians during the treatment of patients, and cultivate the capability to evaluate dental materials.

Oral & Maxillofacial Disease: Students will learn about the etiology and types of orofacial disease. The course covers the diagnosis and treatment of the disease.

Public Oral Health: As dental professionals, the students need to be equipped with an
overall understanding and knowledge of public health and modern medical care. In addition, the students must understand oral health issues that concern the community and develop the ability to offer solutions to those problems and present alternative suggestions as well.

**Fixed Prosthodontics II:** A basic knowledge necessary for the completion of fixed prosthodontic materials will be acquired from this course. Through the practice of fixed prosthodontics, technical procedures will be learned for the production of dental bridges.

**Restorative Dentistry II:** The difference between direct restorative dentistry and indirect cast restorative dentistry is addressed. Practical techniques applicable to the clinic will be acquired, along with esthetic formulas.

**Periodontal Treatment:** In this course, the students will learn to make accurate diagnoses of periodontium, establish optimal treatment plans based on a knowledge of basic periodontal science, and develop the practical and clinical skills necessary to become highly qualified dentists.

**Endodontics II:** A state of the art on endodontics will be studied and implemented. By gaining an understanding of the pathological and biological phenomena of pathogenesis on dental pulp and cementum, diagnosis and treatment planning strategies can be acquired.

**Preclinical Restorative Dentistry:** Restorative and preclinical skills will be acquired. These skills will be applied in a dental clinic.

**Diagnosis & Treatment of Malocclusion I:** By understanding the developmental process of teeth, students will learn to recognize normal and abnormal occlusion, and its prevention and applications.

**Complete Denture Prosthodontics II:** This course offers a preclinical stage practice aimed at understanding the laboratory and clinical aspects of prosthodontics.

**Removable Partial Prosthodontics II:** To understand the basic principles of partial prosthodontics and its special component features, students should learn and familiarize themselves with the production of functional partial prosthodontics and the basics of treatments for partial prosthodontic patients. The actual manufacturing of partial...
prosthodontics will help students to better understand the lectures, develop student’s ability to do technical work, enhance communications with dental technicians during the treatment of patients and cultivate the skills to evaluate dental materials.

**Oral & Maxillofacial Surgery I:** This subject cultivates student’s ability to diagnose and treat patients with thorough knowledge of surgical principles such as dental infection, tooth extraction, operation for prosthodontics and the use of dental implants.

**Occlusion II:** This course helps students to understand the concept of occlusion necessary for tooth restorative treatment, orthodontic treatment, and restorative function treatment of oral structures through the understanding of the functional relationship of structural elements which consist of tooth, supporting structure, periodontal ligament, muscle of mastication, and muscle nerve system, and learning the connective tissue in occlusion of upper and lower tooth structures.

**Fixed Prosthodontics III:** Through the practice of fixed prosthodontics in this course, technical formula will be understood. This course provides the basics of dental equipment, dental techniques, and practical applications in the clinic. This course explains the theory used in fixed prosthodontics materials.

**Elective Lecture II:** Depending on their interests and preferences, students may select from the list courses for humanities and social dentistry

**Courses for Third Year**

**Interdisciplinary Program I:** This course explores a variety of prosthodontic treatment plans for patients with periodontal diseases accompanying multiple sclerosis.

**Interdisciplinary Program II:** The goal of this course is to develop and enhance student’s communications skills in their relationship with patients.

**Dental Anesthesiology:** This course teaches the basic knowledge and skills of anesthesia that are essential to dental procedures.

**Hospital Dentistry:** The purpose of the course is to promote participation in the dental treatment of general patients at hospitals as dentists while understanding the physiological characteristics of general diseases and medical management systems and learning the organic mechanisms of dental patients.
Diagnosis & Treatment of Malocclusion II: In this course, students will learn to recognize normal orthodontic and abnormal orthodontic, and the process of teeth development in order to prevent orthodontic problems. This course introduces students to the origin of dental treatment devices, their production methods and their practical applications.

Oral & Maxillofacial Surgery II: The aim of the course is to offer students opportunities to acquire clinical training in oral and maxillofacial surgery which is an important part of clinical practice, treating various diseases, injuries and defects in the oral and maxillofacial area with surgical concepts and techniques.

Orofacial Pain: The goal of the course is to instruct students to attain the patterns and basic concepts of pain regarding symptoms of orfacial pain in the head and neck area that is recently becoming more prevalent, and to evaluate patients and become familiar with the principles of the treatments.

Oral & Maxillofacial Traumatology: The purpose of the course is to teach the basic information and clinical knowledge concerning various traumatic injuries that occur within the oral and maxillofacial area and to cultivate the capability to deal with the actual clinical situations.

Interdisciplinary Program III: This course develops in students the capability to conduct differential diagnosis on diseases that occur in the oral cavities and setup a comprehensive treatment plan. Students will learn to conduct diagnosis on diseases of the oral mucosa and the jaw that occur in the oral cavities.

Interdisciplinary Program IV: This course is designed to provide a clinical education through various case reports and gives a systematic overview of pedodontic procedures.

Implant Dentistry: In this course, basic knowledge of dental implant is acquired which is necessary for mastication, articulation, and appearance of patients with partial or total tooth loss using implant prostheses. Diagnosis, treatment plans and clinical techniques for surgery and prosthesis are taught.

Dental Ethics: Moral and ethical values and social responsibilities of the dental professionals are discussed. Students will learn to deal with these moral and ethical
issues arising in clinical practice.

**Diagnosis & Treatment of Malocclusion II:** Basic knowledge of orthodontic and clinical orthodontics will be discussed in the course. The process of tooth and maxillofacial development, normal occlusion and malocclusion will be taught.

**Health & Medical Laws:** Students will come to understand the laws and regulations on health care that the dentists must be aware of. Students will study the laws regarding health care, understand the principles of government laws and regulations on health care.

**Forensic Odontology:** This course will teach general concepts of forensic medicine the students need to know as the future dental professionals, and develop the abilities to understand the field of forensic dentistry.

**Geriatric Dentistry:** The course will offer students the opportunities to understand the relationship between aging and dentistry and particular issues related to treating the elderly patients.

**Behavioral Dentistry:** The course will introduce students to the psychological and developmental processes of human beings. Students will also study human behaviors and learn to deal with children’s behavior.

**Oral & Maxillofacial Surgery II:** As a preparatory course to clinical practice, this course discusses tooth extraction which is the most basic technique in the oral and maxillofacial field, aims to develop diagnostic skills through didactic lectures and practice with models, and teach other clinical skills required for the treatment of hard and soft tissue damage and loss.

**Clinical Practice on Orthodontics I:** Students will be provided with opportunities to learn about diagnosis and treatment planning for malocclusion with the aid of cast models, cephalograms of patients, fabrication of removable and fixed orthodontic appliances, observation of clinical practice on patients.

**Clinical Practice on Oral Medicine I:** This course deals with the diagnosis, treatment and prognosis of the oral disease for the practical use.

**Clinical Practice on Oral & Maxillofacial Radiology I:** Clinical training in interpretation,
reporting and evaluation of full mouth intraoral radiograph series, occlusal radiography and bite-wing radiography will discussed.

Clinical Practice on Oral & Maxillofacial Surgery I: The aim of the course is to provide practical training in suturing, intermaxillary fixation, Z plasty, sterilization, instrumentation and patient management. It bridges the gap between theory and clinical practice of oral surgery.

Clinical Practice on Conservative Dentistry I: The course will help students confirm their fundamental knowledge with observation on operative treatment preliminary to clinical experience as fourth year students.

Clinical Practice on Removable Partial Prosthodontics: The course aims to provide clinical training in partial prosthodontics. It includes the following topics: introduction, principles and functions of typical components, principles of design of removable partial dentures, diagnosis and treatment planning of denture construction.

Clinical Practice on Fixed Prosthodontics I: The aim of this course is to provide clinical training in basic principles of fixed prosthodontics and fundamentals of biomechanics, components and function of fixed partial denture and the basic principles of full and partial veneered restorations.

Clinical Practice on Prosthodontics for Edentulous Patients I: The aim of this course is to provide clinical training in complete dentures, and proceeds to anatomy of underlying tissues, methods of establishing vertical and horizontal jaw relationships, selection of artificial teeth and functional tooth arrangement.

Clinical Practice on Pediatric Dentistry I: In this course students will learn about the practical pedodontics by applying the knowledge they have acquired to treatment of patients and study how to control and manage patients behavior and discuss cases.

Clinical Practice on Periodontics I: Emphasis is placed on developing the basic abilities to position operator and instrumentation, training in establishment of diagnosis and treatment plan for periodontal disease, and improving the abilities to treat stomatitis.

Clinical Practice on Comprehensive Dental Care I: In this course students will participate in head and neck examination, diagnostic process, and comprehensive
treatment planning. Furthermore, students will learn to understand and manipulate dental unit chairs, instruments and materials in students clinic.

**Specialized Elective Course:** As part of a dental education that is designed to offer a wide variety of challenges, students may choose to pursue a two-week field study by visiting other dental schools around the world, or joining a medical mission to the areas where an access to dental care is severely limited.

**Courses for Fourth Year**

**Clinical Prosthodontics for Edentulous Patients:** This course will enable students to treat patients by applying the knowledge and skills acquired to offer complete denture prosthodontics

**Clinical Periodontics:** In this course, students will be introduced to the characteristics of developing children and adolescents, and will learn theories and clinical applications needed for overall pedodontic treatments. Students will also be introduced to such concepts as behavioral control, pulp therapy and restorative treatment, traumatic injury, and maxillofacial development of children and adolescents, and will study solutions to many dental problems that occur during these periods.

**Clinical Restorative Dentistry:** This course will enable students to apply to clinics the basic treatment procedures of conservative dentistry. It will encourage students to conduct comprehensive study on the clinical treatment procedures of conservative dentistry.

**Clinical Endodontics:** This course provides students with opportunities to understand the trends of current endodontic treatments, make appropriate treatment plans, predict success and failure, comprehend treatment of pulp hypersensitivity and anesthesia of sensitive pulp, and cope with accidents that may happen during endodontic therapies.

**Clinical Oral & Maxillofacial Surgery:** In this course students will learn theories on the subjects that are frequently encountered in real world clinical situations, such as tooth extraction, trauma and infection, as well as learn problems in clinical applications through specific case studies and understand in detail how oral and maxillofacial surgery in applied to the practice.
Clinical Oral Medicine: Among the areas of oral medicine that one needs to know as a dentist, This course covers the essential clinical contents and the new medical knowledge that can be applied and adapted in clinical treatments.

Clinical Orthodontics: This course will review the general subject of orthodontic, and understand the role of orthodontics in comprehensive dental care and the clinical applications. Students will learn to understand the principles of orthodontic treatments and the need for integrated treatments in solving malocclusion which accompanies various maxillofacial deformities and topical problems, and will practice the clinical application procedures of orthodontic treatment through clinical cases.

Clinical Fixed Prosthodontics: In this course students will have opportunities to apply their basic knowledge in fixed prosthodontics they have learned in the first and second year in dental school to develop appropriate treatment plans for prosthodontic cases.

Clinical Removable Partial Prosthodontics: In this course, students will learn about each component of partial denture prosthodontics and will study application methods to develop design skills for partial edentulous cases. Design approaches and principles according to the classification methods of partially edentulous will be taught through presentations and discussions.

Clinical Periodontics: The objective of the course is to train the students in treatment techniques of periodontal disease and implant by comprehending and mastering knowledge on periodontal regeneration treatment, post-treatment healing process, maintenance, aesthetic periodontics, implants, and tissues near implant.

Dental Management: The aim is to provide theoretical and practical aspects of management of dental practices, including organizational, personnel and financial issues associated with the practice.

Clinical Practice on Fixed Prosthodontics II: To apply the basic principles and knowledge learned during their preclinical course to the clinical situations, students will observe patient treatment procedures and train their clinical skills.

Clinical Practice on Orthodontics II: This course covers methods of case analysis, diagnosis and treatment planning, fabrication of removable orthodontic appliances and observation of orthodontic treatment procedures with fixed orthodontic appliances in the
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Clinical Practice on Oral Medicine II: This course exposed students to dental management of patients with systemic diseases, management of practice with orofacial pain, diagnosis and treatment of oral mucosal disease.

Clinical Practice on Oral & Maxillofacial Surgery II: The objective of the course is to provide practical training in the diagnosis, practice and prognosis of the clinical cases. It bridges the gap between theory and clinical practice in oral & maxillofacial surgery.

Clinical Practice on Removable Partial Prosthodontics II: The objective of the course is to train the students in laboratory procedures for the fabrication of removable partial dentures and solving the problems that occur during laboratory procedures.

Clinical Practice on Oral & Maxillofacial Radiology II: The course discusses intraoral, extraoral and panoramic radiographs in the clinic. It enables the students to understand film processing and radiologic interpretation.

Clinical Practice on Conservative Dentistry II: This course offers the students familiarity with clinical procedures of operative dentistry via observation and practice.

Clinical Practice on Pediatric Dentistry II: To improve clinical competency, the course allows the students to observe patients, compare their knowledge with the clinical procedures performed by the clinic faculty and explore solutions by group discussions.

Clinical Practice on Prosthodontics for Edentulous Patients II: This course provides an opportunity to analyze clinical cases, and to establish the practical treatment plan for edentulous patients.

Clinical Practice on Periodontics II: Emphasis is placed on developing the skills to draw up diagnosis, treatment plans, and prognosis of each disease and plaque control, scaling, subgingival curettage, and observing the surgical curettage.

Clinical Oral Pathology: The objective of the course is to acquire the ability of differential diagnosis for oral diseases.

Elective Course III, IV, V: Depending on their interests and preferences, students may
select from the list courses of basic sciences and advanced clinical practice

**STUDENT LIFE and STUDENT SERVICES**

**Counseling Service**
Psychological counseling services are available to the students who are having difficult personal issues that interfere with their dental education.

1. **Yonsei University Counseling Center**
The counseling center provides psychological tests and counseling services, free of charge for the students. It is part of the Yonsei Leadership Center, located on the fourth floor of Baekyang Hall. The center assists the students with personal problems by offering both individual and group counseling sessions. It conducts Myers-Briggs type indicator, Minnesota Multiphasic Personality Inventory, and Personality Assessment Inventory and Aptitude Assessment Test for the students as needed.

   The areas in which the students can receive expert assistance are academic performance, psychological problems, mental health related issues, emotional challenges, etc. Students confidentiality is strictly protected.
   - Office hours: 9:00 am - 5:00 pm, Monday - Friday
   - Phone: 02-2123-3373, 3374
   - Homepage: www.yonsei.ac.kr/counsel
   - Email: counsel@yonsei.ac.kr

2. **College of Dentistry Mentoring System**
The mentoring system was established to provide guidance and assistance in career and academic affairs of students. A student who wishes to have a guidance session should contact the Office of Associate Dean for Student Affairs.
Student Health Services

1. Prematriculation
Prior to the start of a new academic year the students are required to take medical checkups to protect themselves, colleagues and patients from any contagious and infectious diseases.

2. Severance Hospital and Dental Hospital
After visiting doctors and receiving treatments at the Yonsei University health system and Dental Hospital, the students who are enrolled in the College of Dentistry can get their medical refunded if the receipts are submitted to the Mutual Health Aid Association.

Health Services Center
The Health Services Center is located on the second floor of the Student Union Building. The center’s services include physical examination, internal examination, preventive dental care, general surgical first aid treatment and vaccination.
- Office hours: 9:00 am – 4:00 pm, Monday – Friday
- Phone: 02-2123-3346

Campus Housing (Muak House)
Muak dormitory includes four twin buildings, accommodating 1,970 students. It is located near the north gate of the university. Dorm buildings 1 and 2 accommodate about 996 undergraduate and graduate students. Dorm building 3 is for dental and nursing students and dorm building 4A is for students in general studies and Dorm building 4B is for foreign faculty members. Application form for incoming students is due by early February for the first semester and early August for the second semester. Dorm assignment is made by a random selection.

1. How to apply
The application form for a dorm space is available online at http://web.yonsei.ac.kr/housing/index.htm. Students should fill out the form along with other required documents to the Housing Office. Students who are assigned a room will be announced on the dormitory website. Information regarding the deposit and payment options and move-in date will also be announced on the web.

- An application form
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- A copy of the national registry card for Korea citizens
- A certificate of residence issued by Korean embassy / consulate for foreign students
- A copy of passport for international students

2. Move-in
A. Date: February 28, 1:00 pm - 6:00 pm
B. Bring: ID card, 3x4 cm color photo taken within 3 months
C. Refrigerators, space heaters, utensils, and pets are not allowed in a dormitory room.
D. Move-in procedures: When you arrive at the dorm building, a housing office staff at the information desk will assist you with check-in procedures listed below.
   1) Circle your name and the room number on the assignment sheet.
   2) Pick-up an ID card, a room key and a dormitory packet. Attach a photo on the ID card.
E. Use of ID Card: When entering the dorms, an ID card must always be presented to the guards. Remember, ID cards are nontransferable. When the ID card is lost, report immediately to the Housing Office for renewal.
F. Check out: ID cards, room keys and other borrowed items must be returned to the front desk. If a student wishes to leave earlier than scheduled, he/she must contact the Housing Office.

Move-in Day Parking: Get a parking validation stamp on the ticket at the Housing Office and submit it to the parking kiosk.

3. Physical Examination
Every dorm resident must go through a physical examination (chest X-ray, hepatitis B check up) within a week after moving in. Visit the Health Services Center, located on the second floor of the Student Union Building for the physical exam. Those who evade the physical examination will be automatically dismissed from the privilege of living in the dorm. If you have the chest X-ray taken and Hepatitis B exam done elsewhere, the results should be submitted to the Housing Office.
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STUDENT ACITIVITIES and EVENTS

Student Activities

■ Student Council Activities and Introduction to Clubs
In the spirit of democratic, student-governing activities, the students take the initiatives to organize and run their own committees in order to promote the independent, self-regulated student government to unite all dental students. In addition, the following club activities have been organized for the interests of the students.

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<th>Categories</th>
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<td>Music</td>
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<td>DENU Choir</td>
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<td>Dental Orchestra</td>
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<td>Yeoul</td>
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<td>Cranial No.5 (Rock Band)</td>
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Events

■ June 9 Festival
June 9 Festival is an intercollegiate exchange event commemorating World Oral Health Day. Because the date of the festival falls in the final exam week, the event is moved and takes place in late May each year. The purpose of the event lies in building community spirit through mutual exchange between dental schools in South Korea. The event was launched as a joint athletic activities among 10 dental schools, however, because of the difficulties in assembling all of the Korean dental schools, during a period 1985-2000 it has been reduced to an event among three schools; Yonsei University College of Dentistry, Kyung Hee University College Dentistry and Seoul National University College of Dentistry. From 2001 the June 9 Festival has been held with all 11 Korea dental schools participating. The festival includes the opening evening celebration, symposium, athletic meetings, musical performance, exhibition, chorus, pop band performance, etc.

■ Yona Festival
Yonah Festival, organized by the College of Dentistry student council, is a festival for the YUCD students and the faculty get together to get acquainted better. The event occurs in early November every year. Now entering its twenty-eighth year the festival is a joyful event for everyone at the YUCD.

■ Student Exchange Program with Tokyo Dental College
To build and strengthen lasting friendship with Tokyo University Dental College, our sister dental school, through mutual exchange events, faculty and students from the two dental schools visit each school taking turns, and the events are jointly led by the students from both schools.

■ Yona Reunion
The YUCD alumni and the graduating class hold this event together. They spend a day of celebration which is sponsored by the alumni.

■ Orientation for the first year students
In mid-February an orientation session is held for the entering first year students to help them adapt to the Yonsei University College of Dentistry. The entering students are introduced to the academic programs and facilities at the YUCD and the dental school’s facilities. The main goal is to help them smoothly transition to a new environment.
Training Trip for First Year Pre-dental Students
A three-day trip is held in February for the entering students. The program is divided into two parts. For the pre-dental first year students the program focuses on building relationships with their fellow classmates and providing guidance for successfully going through the dental education at the YUCD.

Community Service in Rural Areas
During summer and winter breaks from classes, students, organized by the student council, visit remote rural villages that are without adequate access to dental care and provide dental treatments free of charge, as part of their community service.

MILITARY AFFAIRS ADMINISTRATION
Because dental students are given an option to postpone their mandatory military service until age 27, the male students should report to the Yonsei University Military Affairs Administration and file a postponement request. After graduation from dental school, the students who pass the national dental board exam may serve in military as a dental officer or a public health dental officer.

GRADUATE PROGRAM
Introduction
Department of Dentistry and Department of Applied Life Science, The Graduate School, Yonsei University offer one of the most desirable educational environment in dental medicine in the country. The students and faculty at the Graduate Schools benefit from the university’s commitment to seek for truth and freedom based on Christian principles and to encourage students to participate in the community service. The Yonsei University College of Dentistry and Dental Hospital have 15 departments with over 100 full-time faculty members and a number of part-time clinic instructors. The finest and the most modern facilities are available for research and students to pursue clinical training. We shall continue to strive to become a leading dental school in education, clinical competency and research.

Admissions
We are looking for individuals who have the potential and strong desire to become
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independent scientists, and can make significant contributions to the advances in dental science. Applicants should have excellent academic grades from undergraduate and possess attributes such as initiative, inquisitive mind, perseverance, maturity, creativity, caring and compassionate spirit.

(i). Master’s degree: The students applying for a Master’s degree should have a bachelor’s degree or an equivalent degree prior to the beginning of the graduate program.

(ii). Ph.D. degree: The candidates for a Ph.D. degree should have a Master’s degree from an accredited institution to be considered for the program.

Requirements for Advanced Degrees

The advanced degrees in dental sciences are awarded under the jurisdiction of the Yonsei University Graduate School.

(i). Required courses: Thirty semester credits are required for the Masters degree, at least 12 of which are obtained from the core courses and the rest from the minor and electives (an approval of a thesis supervisor is required). Sixty semester credits, including 30 credits from the Masters program are required for the Ph.D. degree.

(ii). TOEFL: Prior to the start of thesis research work, TOEFL (Test of English as a Foreign Language) test must be taken.

(iii). Screening procedures: As soon as the degree candidate has satisfactorily completed the core courses, a screening meeting will be called. The screening procedures include written examinations. It is the student’s responsibility to file the Request for Permission to take a Ph.D. and Masters Qualifying examination form with the Graduate School. Candidates are encouraged to take a qualifying examination as soon as possible after earning at least 24 credits for Masters and 51 for Ph.D. and passing the TOEFL. A qualifying exam for thesis research is offered once each in the spring and fall semester. The written exams will cover specific subject areas of the core curricula, as well as topics selected by the supervisors. After successfully passing all the written exams, the candidate will prepare and submit a research proposal to the screening committee. Two subjects, one core course and one optional course, will be tested for a Masters degree, while two core courses and one optional course will be tested for a Ph.D. degree. The doctoral dissertation is to focus on an original research which reflects the creative scholarly abilities of the candidates and contributes to the advancement of biological understanding of the theoretical basis of disease and its treatment.
COURSES OF INSTRUCTION

Major Elective Subjects

Diagnostic Division
DEN8510: Orofacial Pain
Orofacial Pain deals with etiology, diagnosis, treatment and prognosis of pain in orofacial region.

DEN8511: Cephalometric Analysis
Through cephalometric analysis, facial anomalies and orthodontic diagnosis are studied. Treatment planning using the cephalometric analysis is discussed.

DEN8512: Halitosis & Xerostomia
Halitosis & Xerostomia deals with etiology, examination and treatment of halitosis and xerostomia.

DEN8513: Dental Digital Imaging
This course deals with the principles and clinical applications of the digital imaging which is being introduced into the field of clinical dentistry. It will also have the students participate in the manual practice including camera works and software manipulation.

Conservative Division
DEN8520: Root Resorption
Causes and pathways of the root resorption are investigated. A research on diagnose and treating the root resorption is carried out through the program.

DEN8521: Dental Cariology
A study on the mechanics, the development and the histological changes of the dental caries is expected of the students. Lectures are given on the use of preventive measures like fluoride.

DEN8522: Biomechanics in Conservative Dentistry
The objective is to study the force distribution and fracture of the tooth-restoration complex restoration.
**DEN8523: Pain Associated with Endodontic Therapy**

Before treating a patient in pain, a correct diagnosis is imperative. However, since pain is a versatile phenomenon, diagnosis may be beyond the knowledge and expertise of a general dentist. The purpose of this course is threefold: (1) to understand the factors affecting the occurrence of pain associated with endodontic therapy; (2) to determine whether a pain is of dental origin; and (3) to locate the site nature of the origin of the pain.

**DEN8524: Adhesive Dentistry**

This lecture will introduce the student to the concept and major trends of scientific research of adhesive dentistry. In addition, a series of lectures will be given on many advanced clinical techniques and information concerning adhesive dentistry and its related fields.

**Rehabilitation Division**

**DEN8530: Geriatric Dentistry**

One of the biggest contributions by the modern medical science is in lengthening the life expectancy. During the 20th and 21st centuries, especially the 21st century, the life expectancy has dramatically increased and as a result the proportion of the elderly population has grown. The elderly patients have a different needs in terms of medical, psychological and social aspects. Therefore, to understand and meet these needs, appropriate treatment plans and procedures for the elderly population are encompassed.

**DEN8531: Dental Implantology**

To understand bases of implant dentistry on restoration of masticatory function, speech and aesthetics of partially or fully edentulous patients with implant supported prosthodontics. Also the students will learn basic science, surgical and prosthodontics and acquire clinical applications on implant patients.

**DEN8532: Dental Materials for Oral & Maxillofacial Plastic Surgery**

Reconstructive alloplastic materials in post traumatic or post operational maxillofacial defects are researched on a physiological and scientific basis.

**DEN8533: Comprehensive Treatment Planning for Complex Restorative & Periodontal Problems**

Understanding a number of principles and interdisciplinary approaches to restore oral tissue that is damaged by trauma and other pathologies and helping to make proper treatment plans that meet patient’s requirements.
DEN8534: Dental Bioengineering
The lectures provide a fundamental mechanism of apparatus and equipment as well as application method to dentistry. Furthermore, this course improves the ability to develop easier and more effective apparatus and equipment.

DEN8535: Esthetic Dentistry
Restoring esthetics is one of the important prosthodontic treatment goals. Collaborative work between departments will be discussed to learn how to approach the different problems in systemic manner.

DEN8536: Mandibular Movement & Occlusion
The purpose of this seminar is to study the physiologic mandibular movement and dynamic relationship of the dentition in the oral rehabilitation.

Growth & Development Division
DEN8540: Interdisciplinary Orthodontic Treatment
This course is to study the protocol of treatment plans for orthodontic patients as a interdisciplinary collaboration by understanding the application of other specialty fields such as periodontics and prosthodontics during orthodontic diagnosis and treatment plans.

DEN8541: Orthodontic Diagnosis & Treatment Plan for Orthognathic Surgery
The diagnosis, operation and post-operative management of congenital anomaly, acquired deformities of the maxillofacial region are discussed.

DEN8542: Pediatric Dental Materials, Orthodontics
Physical and mechanical characteristics of the dental materials used in pedodontics and orthodontics are studied.

DEN8543: Etiology of Craniofacial Deformities
This course is to discuss the genetic and environmental factors underlying various craniofacial deformities, including the maxillomandibular skeletal discrepancy, cleft lip and palate and other craniofacial deformities leading to specific types of malocclusion, to relate the pathophysiology to the current treatment modalities involving orthodontic and surgical treatment policies.

DEN8544: Growth & Development of the Face
Principles of bone growth and cranio-cervico-facial growth will be studies.
DEN8545: Development & evaluation of restorative materials
Development of restorative treatment materials has been changed dramatically. To apply these materials in the clinic, they should be evaluated by mechanical, physiological and biological aspects. In this class, we will review developmental procedures of the materials and their clinical test methods and results.

DEN8546: Evaluation of Growth & Development
To understand individual growth status by evaluating growth and development of craniofacial regions.

Surgical & Pathological Division
DEN8550: Biology of oral cancer
This course will study the oral carcinogenesis, mechanism of metastasis, experimental animal model, diagnosis, treatment of oral malignant tumor and dental treatment of head and neck cancer patients.

DEN8551: Advanced Implant surgery
The objective of this course is to study the advanced and new surgical technique and related healing mechanism in the area of implant surgery.

DEN8552: Tissue Engineering in Periodontology
The objective of this course is to study the biomaterial related tissue engineering technique and its healing mechanism for the purpose of periodontal regeneration.

Oral Biology Division
DEN8560: Tooth Biology
The structure and function of dental tissues are discussed in view of cell and intercellular matrix. Genes and their relationship in tooth formation is also discussed.

DEN8561: Oral Nutrition
A study on the relationship between the nutrition and the occurrence of oral diseases will be done. Diet control methods for the prevention of oral diseases are discussed.

Methodology
DEN8570: Dental Research Methodology
Lectures on writing a research paper, planning a research, analyzing and interpreting the outcomes will be studied.
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DEN8571: Statistics
Various statistical analytic methods that are used in dentistry are discussed.

Compulsory Subjects

Oral Pathology
DEN6001: Molecular Pathology
Based on molecular biologic mechanism, oral diseases are reviewed.

DEN6002: Benign & Malignant Bone Lesions of the Jaw
Normal histology and biology of bone is reviewed and non-neoplastic lesions, benign and malignant tumors of the jaw are studied.

DEN6003: Cysts & Tumors of Odontogenic Origin
cysts and tumors of odontogenic origin are classified and their histogenesis and origins are studied.

DEN8000: Oral Oncology
The pathogenesis, treatment, and prognosis of oral cancer are reviewed. In particular, this course focuses on the study of cancer prevention.

DEN8001: Embryology & Developmental Biology of Head & Neck
Embryologic study of head and neck area is performed. In particular, the development and growth of tooth germ, mandible and maxilla, and salivary glands are studied.

DEN8003: Cellular Biology of Cancer
This class will provide the knowledge of molecular and cellular basis of cancer development and progress.

Oral Biology
DEN6100: Craniofacial Neuroscience
The Sensory and motor functions of masticatory system are taught to understand the systematic functions in the craniofacial region.

DEN6101: Oral Biology
The lectures will introduce biology and biochemistry at the molecular level in the field of dentistry. The lectures also involve the clinical application of the knowledge on
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prevention and treatment of oral diseases.

**ALS6300: Pathogenicity of Microorganism**
To understand the pathogenicity of microorganism, virulence factors including adhesion, invasion, toxin and resistance to host defense are reviewed.

**DEN6102: Neuropharmacology**
The lectures provide the students with an understanding of the underlying mechanism of the neuronal conduction and transmission. This course also deals with the action and use of drugs, which exert their effects by binding to the specific receptors.

**DEN6103: Salivary Biology**
The lectures provide students with the knowledge about molecular structures and regulations of ionic channels and transporters related to the fluid and macromolecular secretion in salivary gland acinar cells. The lectures will also deal with the molecular components of saliva.

**DEN6104: Molecular Experimental Methodology**
In this course, students will learn about the basic anatomic knowledge of head and neck. Based on this morphologic knowledge, they will be able to apply in the clinical situations. In addition, learning the methodology of morphological research in the head and neck may lead the students to writing scientific research papers.

**DEN6106: Techniques of Practical Biochemistry & Molecular Biology**
Lectures on the biochemical and molecular biological methods for research are given.

**DEN6107: Molecular Oral Microbiology**
The functional principles and techniques of research in oral bacteria causing oral disease like periodontitis are taught in order to apply those in the graduate studies.

**DEN8100: Craniofacial mechanobiology**
The underlying mechanism of craniofacial patterning and bone remodeling at the cellular level are reviewed. Particularly, cellular responses by mechanical stress are focused on the craniofacial architecture.

**DEN8101: Animal Models in Dental Research**
Experiments with animals are indispensable in research. Selection of proper animal
model is very important in dentistry. This course will provide students with an opportunity to perform a high quality research.

**DEN8102: Immunobiology**

This course will provide a general knowledge of cell- and antibody-mediated immunity. Autoimmunity, hypersensitivity, immune response against tumor, implant and microorganism are also reviewed.

**DEN8103: Clinical Pharmacology for Dentistry**

The main objective of this course is to study the pharmacological properties of the drugs commonly used in dentistry.

**DEN8104: Molecular Physiology**

The lectures are designed to help students understand the molecular mechanism of cell physiology on oral and maxillofacial region and how cells translate the external signals to the intracellular signals and how the intracellular signals act on target molecules in cells. Especially, this course will provide students with the knowledge related to biology, functions and structures of cell membrane in molecular level.

**DEN8105: Clinical Anatomy**

Through this course, students will be able to acquire the topographic and systematic anatomical knowledge in the head, neck and oral region.

**DEN8106: Dentofacial Development & Deformities**

Dentofacial development is discussed to understand, diagnose and treat dentofacial deformities. Recent trends on clinical applications are discussed.

**DEN8107: Clinical Application of Biochemical Tools**

This course is designed to provide students with biochemical techniques needed for the research in dentistry.

**DEN8108: Medical Bacteriology**

The functional principles and techniques in medical bacteriology are taught with a special emphasis on the basic biological characteristics of pathogenic organism, basic host reactions to the infections and diagnostic tests for infectious agents.

**Public Oral Heath**

**DEN6200: Public Oral Health**
This course is to present the history, philosophy and approaches toward public oral health, and discuss the relationship between the prevalence of oral disease and the social environment or human behaviors.

**DEN6201: Oral Epidemiology**  
This course is to study epidemiology to describe the occurrence, distribution and etiology of oral disease, and how to collect and analyze the data.

**DEN6202: Preventive Dentistry**  
This course is to present individual plaque control programs, prevention methods of oral diseases and practical applications.

**ALS6702: Early Detection & Diagnosis of Dental Caries**  
This course is to study importance of early dental caries detection and diagnosis criteria and how to detect the early dental caries.

**DEN8200: Principle of Oral Health Promotion**  
This course is to present the planning, treatment and evaluation of oral health promotion and to discuss the oral health education which is an important aspect of oral health promotion.

**DEN8201: Public Oral Health Service Administration**  
This course is to present dental health care management such as dental care delivery system, dental manpower forecasting and dental health insurance, etc.

**ALS8701: Topic of Fluoride**  
This course studies the chemical property of fluoride, the mechanism and prevention methods in dental caries.

**DEN8202: Clinical Preventive Dentistry**  
This course is to study treatment methods of preventive dentistry in dental clinic.

**Dental Materials**  
**DEN6300: Materials Sciences**  
This course provides a general knowledge on the basic properties of materials such as metallic, polymeric and ceramic materials via critical thinking.
DEN6301: Introductive Dental Materials
This course provides a principal knowledge on the physical and chemical properties of
dental materials, i.e., synthetic resin, impression material, adhesive material, dental
amalgam, noble and base dental alloys, gypsum product and investment.

DEN6302: Specifications for Dental Materials & Test Method
The objective of the course is to derive the most effective testing method of materials
by means of comprehensive knowledge concerning specification, and the necessary
standard of dental materials.

DEN6303: Testing Procedures in Biomaterials & Instruments
The course will introduce the basic approach, the principles of instrumentation and the
study methods of dental materials used in the head and neck region.

DEN8300: Dental Polymeric Materials
This course provides a general knowledge of polymeric materials and applications to
dentistry.

DEN8301: Dental Metallurgy
This course provides a general knowledge of metals, alloys and their applications to
dentistry.

DEN8302: Dental Ceramics
This course provides a general knowledge of ceramics and applications to dentistry.

DEN8303: Biocompatibility of Dental Materials
This course provides the trend of research and development on biomaterials in teeth and
alveolar bone repair as well as toxicities to teeth, periodontic tissue and whole body.

Orthodontics
DEN7000: Assessment of Growth
This course is to discuss different methods and practical applications of the basic
evaluation of patient's growth, development and orthopedic treatments with a growth
modification and camouflage treatment and surgical procedures in patients with severe
skeletal malocclusion by reviewing previous cases and data.

DEN7001: Adult Orthodontics
This course is to discuss the anatomic and physiologic differences in adults and adolescent populations in perioral structures. Practical orthodontic treatments will be discussed and dealt with the limitations in adult orthodontics and its treatment plans and procedures.

**DEN7002: Surgico-Orthodontic Treatment**
This course is to assess the surgical treatment procedures, considering the post surgical stability by understanding the anatomical and diagnostic characteristics of maxillofacial deformities. In addition, the goals and mechanics for pre and post operative orthodontic treatment will be discussed.

**DEN7003: Perio-Orthodontics**
This course is to investigate anatomical and physiological features of periodontal tissue. General topics in orthodontic treatments, and discuss diagnosis and treatment planning of periodontally compromised patients and different approaches and treatment procedures.

**DEN7004: Orthodontic Physiology**
This course is to introduce the mechanism of normal physical functions of stomatognathic systems, like swallowing and mastication, and investigate its effects to growth and considerations in clinical orthodontic treatment as well as prevention of abnormal oral functions.

**DEN7006: Introduction of Orthodontic Biomechanics**
This course is to review various studies about tooth movement and tissue reaction with respect to the direction & magnitude of force during orthodontic tooth movement, and discuss mechanical and biological principles applied in orthodontic force.

**DEN9000: Early Orthodontic Treatment**
This course is to discuss the effects of treatment time on final outcomes after understanding the rational, indications and advantages of early orthodontic treatment. Applications and effects of extra and intra oral appliances that are commonly used for early orthodontic treatment will be discussed.

**DEN9001: New Trends of Orthodontics**
This course is to investigate the recent trends in orthodontic treatment such as miniscrew implants, clear aligners and rapid orthodontics, and discuss the advantages of those treatments in comparison to conventional orthodontic treatment.
DEN9002: Relapse & Retention in Orthodontics
This course is to review literature on the relationship between post-orthodontic treatment relapse and physiologic, biologic principles and growth. Also discuss new possibilities for retention method and its clinical implications.

DEN9003: Prevention of Orthodontic Complications
This course is to analyze the cause for medical accidents which occur during orthodontic treatment regarding their patterns, and to discuss the prevention methods.

DEN9004: Dentofacial Deformities
A variety of diagnostic approaches and treatment methods of dentofacial deformities are discussed. The recent trends on clinical applications are discussed.

DEN9005: Orthopedics in Orthodontics
This course is to review literature and cases about general topics on principles, mechanism, treatment timing, indication and application of appliance and stability of orthopedic treatment utilizing growth and development of children with skeletal Class II or Class III malocclusion, facial asymmetry, open bite and deep bite.

DEN9006: Orthodontic Biomechanics
This class is to study biomechanical concepts which are applied to orthodontic treatment planning for intrusion of the anterior teeth, traction of the impacted tooth, closure of the anterior teeth and the compromised skeletal discrepancy, and to investigate detail methods to improve the outcomes and efficiency of the orthodontic treatment.

DEN9007: Bone Biology in Clinical Orthodontics
This course reviews the basic and applied bone biology related to the eruption and orthodontic movement of teeth, normal and abnormal growth of the maxillofacial structure and its control, and the altered bone formation in the pathogenesis of various facial deformities, to understand the physiologic mechanism of the etiology of each malocclusion and to suggest efficient treatment modalities for each type of malocclusion and facial deformity.

Oral Medicine
DEN7100: Forensic Dentistry
Forensic dentistry deals with tooth and maxillofacial hard tissues which are resistant to changes including decomposition, and provide characteristics useful for individual identification.

**DEN7101: Oral Medicine**
Oral medicine deals with basic diagnosis of systemic diseases and their relation to dental treatment.

**DEN7102: Analysis of Medical Dispute**
Medical obligation, rights and errors are analyzed for prevention of medical disputes.

**DEN7103: Emergency Management of TMD**
Emergency management of TMD deals with diagnosis and treatment of emergent TMD in clinics.

**DEN7104: Tongue Disease**
Tongue is a primary organ of taste, speech, swallowing and mastication. Also, it reflects general conditions and manifests the signs and symptoms of many systemic diseases. Knowledge of tongue diseases provide the differential diagnosis and treatment approaches.

**DEN9100: Dental Jurisprudence & Analysis of Cases**
Types and the present state of medical dispute cases are analyzed to work out countermeasures for the disputes.

**DEN9101: Stress & Orofacial Disease**
Stress & Orofacial Diseases deal with treatment, etiology and interrelationship of orofacial pain, oral soft tissue diseases caused by stress.

**DEN9103: Medical Errors & Communications**
Medical Errors & Communications deal with disputes between doctors and patients which is an important aspect in practice.

**DEN9104: Comprehension of Oral Medicine**
Oral medicine deals with basic diagnosis of systemic diseases and their relation to dental treatment. The practice of oral medicine will provide optimal health care to patients through the diagnosis and management of oral diseases (Orofacial pain, oral
DEN9105: Orofacial pain & biobehavioral treatment
Biobehavioral interventions are viewed as safe, reversible, and non-invasive, and for the most part they emphasize strategies under the patient's control. Biobehavioral modalities are useful and effective in the management of chronic pain. The phrase "biobehavioral" has gained acceptance as a collective term that refers to treatment approaches for chronic pain that are derived from the application of behavioral science theories and methods to change the perception and appraisal of pain and to ameliorate or eliminate the personal suffering and psychosocial dysfunction that often accompanies persistent pain conditions. It is necessary to know and apply it to manage the pain condition.

Oral & Maxillofacial Radiology
DEN7200: Diagnostic Imaging of Jaw Lesions
The course will enable students to understand the diagnostic imaging techniques and interpret the images for diagnosing the diseases in the jaws.

DEN7201: Principle of Diagnostic Imaging
In this course, we study the basic physical properties and principles of radiographic equipment for understanding diagnostic images.

DEN7202: Diagnostic Imaging of Temporomandibular Joint
This course is for studying diagnostic imaging and its interpretations for the anatomic structures and diseases of the temporomandibular joint.

DEN7204: Differential Diagnosis of Jaw Lesion
Will study the radiologic and clinical findings and to make a differential diagnosis from the diseases having similar symptoms.

DEN9200: Differential Diagnosis of Oral & Maxillofacial Lesions
In this course, we study the diseases in oral & maxillofacial area and its differential diagnosis.

DEN9201: Differential Diagnosis of Head & Neck Lesions
In this course, we study the diseases in head and neck area and its differential diagnosis.
DEN9202: Diagnostic Imaging of Oral & Maxillofacial Lesions
It enables students to understand the diagnostic imaging technique and interpret the imaging for diagnosing the diseases in oral and maxillofacial area.

DEN9203: Diagnostic Imaging of Head & Neck Lesions
It enables students to understand the diagnostic imaging techniques and interpret the images for diagnosing the diseases in head and neck area.

DEN9204: Sectional Imaging of Sinonasal Cavities
Will study the sectional images of the normal anatomy of the sinonasal cavities and to understand the findings of the various diseases occurring in the sinonoasal cavities.

DEN9205: Sectional Imaging of Upper Aerodigestive Tract
Will study the sectional images of the normal anatomy of the upper airway and to understand the findings of the various diseases occurring in the upper airway.

DEN9206: Sectional Imaging of Jaws & Temporomandibular Joints
Will study the sectional images of the normal anatomy of the jaws and temporomandibular joints and to understand the findings of the various diseases occurring in the jaws and temporomandibular joints.

DEN9207: Sectional Imaging of Neck
Will study the sectional images of the normal anatomy of the neck and to understand the findings of the various diseases occurring in the neck.

Oral & Maxillofacial Surgery
DEN7300: The Treatment of Congenital Deformity in Oral & Maxillofacial Region (CLP))
Embryology, pathogenesis and disability of cleft lip & palate and the physiologic treatment modality.

DEN7301: Maxillofacial Infections
The origins of infection in teeth and maxillofacial regions, its systemic effect and treatment are studied.

DEN7302: Craniomaxillofacial Implantology
The course provides the basic concept of the dental implant, treatment of congenital
deformity and acquired large defect of oral & maxillofacial region. The course covers the related anatomy, design and esthetic restoration.

**DEN7303: Diagnosis of Developmental Maxillofacial Deformity**
The scope of this course encompasses the understanding the maxillofacial shape, function, and the causative factors of non-congenital craniomaxillofacial & occlusal developmental disturbances. It will also focus on the treatment planning and the clinical application based on the diagnosis.

**DEN7304: Emergencies & Treatments in Dental Office**
This course is to consider the diagnoses, the treatments and the prevention of general complications and side effects which can occur in dental offices.

**DEN7305: Pediatric Oral & Maxillofacial Surgery**
The course will discuss pediatric surgical patients concerning psychosomatic aspects of growth and development, and furthermore, clinical applications to other areas in oral & maxillofacial surgery.

**DEN7306: Tooth Replantation**
The course will introduce topics on tooth replantation after traumatic tooth injury and intentional replantation for the purpose of salvage.

**DEN7307: Oral & Maxillofacial Traumatology**
This course is to study the new research findings on types, diagnosis, treatment planning and methods for oral & maxillofacial trauma.

**DEN7308: Emergency Oral & Maxillofacial Care**
This course covers the topics associated with the clinical oral & maxillofacial surgery, such as, oral bleeding, trauma, infection, maxillary sinus perforation, nerve injury, pulmonary aspiration, et al.

**DEN7309: Surgery on Salivary glands**
Will study the surgical treatment of salivary glands on the basis of anatomical and physiologic properties.

**DEN7310: Maxillofacial Plastic & Reconstructive Materials**
Will study and discuss materials used for functional and esthetic reconstruction of maxillofacial soft and hard tissue.
DEN7311: TMJ Surgery
Various surgical methods applicable to temporomandibular joint will be discussed.

DEN9300: The Treatment of Developmental Deformity in Oral & Maxillofacial Region (DFD)
Pathogenesis, disability of DFD and the diagnosis and the functional treatment of DFD.

DEN9301: Orthognathic Surgery
Will study the topics on diagnosis, operation and post-op. management of dentofacial deformities.

DEN9302: Treatment of Oral & Maxillofacial Tumors
The aim of this course is to study the characteristics of oral & maxillofacial tumors, treatment and prognosis.

DEN9303: Congenital Maxillofacial Deformities & their Developments
The aim of this course lies in the understanding the congenital craniomaxillofacial deformities in terms of etiology, developing mechanism, and its related experimental research.

DEN9304: Conscious Sedation in Dentistry
This course is to absorb the concepts of the conscious sedation and to understand the process of conscious sedation, and to establish the practical clinical knowledge to perform the conscious sedation, and their potential side effects and complications.

DEN9305: Micro-Reconstructive Surgery
The course will cover historical significance and the concepts of micro-reconstructive surgery for maxillofacial hard and soft tissue reconstruction and microsurgical repair of motor and sensory nerves in oral & maxillofacial region related to traumatic injury and ablative tumor surgery.

DEN9306: Surgical Treatment of TMJ Disorders
The various approaches to the TMJ surgery with their implications and complications are discussed.
DEN9307: Obstructive Sleep Apnea
The course is to study the etiopathogenesis, diagnosis, and treatment modalities emphasizing the surgical maneuver and to discuss the clinical cases of obstructive sleep apnea.

DEN9308: Oral Surgical Care in Medically Compromised Patients
This course covers the topics on the contents associated with hospital dental surgical care in medically compromised patients, such as, cardiopulmonary, hemorrhagic, endocrine, and various malignant tumor patients.

DEN9309: Tissue Engineering for Orofacial Reconstruction
Will study methods of orofacial reconstruction using tissue engineering.

DEN9310: Preprosthetic Surgery
In the course the students will study and discuss essential surgical procedures (special exodontias, soft tissue manage, augmentation of alveolar bone, implant surgery, sinus lift etc.) before denture or implant prosthodontic treatment.

DEN9311: Pathophysiology of TMJ
This course will discuss topics on pathophysiology of temporomandibular joint, which is useful to making diagnosis and treatment plan of the temporomandibular disorders.

Conservative Dentistry
DEN7400: Trauma & Surgical Approach
The objective of the course is to acquire the knowledge of treating traumatized teeth and surgical approach when endodontic treatment has failed.

DEN7401: Multi-Disciplinary Approaches in Endodontic Therapy
The objective of the course is to develop treatment plans associated with success and failure in endodontics and complicated cases associated with periodontic, prosthodontics, pedodontics, and orthodontics problems.

DEN7402: Dentin-Pulp Complex
The goal is to study pulpal reaction to dentin caries, operative treatment and direct & indirect pulp capping.

DEN7404: Intra-Canal Treatment
The objective of the course is to diversify the procedures and to advance the quality of treatment through studying clinical literature review concerning access cavity preparation, filling, medication, and radiologic, microbiologic and materialistic research papers.

**DEN7405: Esthetic Restoration**
The course is designed to study the rapidly changing concepts and to advance the quality of treatment of composite resins and ceramic restoration by studying clinical literature.

**DEN7406: Patho-Phsiological Consideration of Pulpal Disease**
The goal of the course is to develop the abilities to diagnose and to acquire basic knowledge leading to optimal treatment planning through the study of anatomy, histopathology, pain and clinical literature.

**DEN7407: Biologic aspect of operative treatment**
Restoration of the original tooth function and anatomy is the optimal goal of restorative treatment. In this class, we will discuss which factors should be considered and how to deal the pulp-dentin complex to obtain the ideal restoration.

**DEN9400: Enamel-Dentin Complex**
The objective is to study tooth structure as enamel-dentin complex.

**DEN9401: Dental Traumatology**
The objective is to understand pathogenic changes of traumatized teeth and study its treatment.

**DEN9402: Esthetics & Tooth Bleaching**
Will discuss esthetic considerations and tooth bleaching.

**DEN9403: Microorganisms & Endodontics**
Most pathoses of the dental pulp and periradicular tissues are either directly or indirectly related to microorganisms. Knowledge of the bacteria associated with endodontic pathoses is important in understanding the disease process and a sound rationale for treatment. This course discusses bacteria associated with pulpal and periradicular disease, infection control, and the treatment of endodontic infections including adjunctive antibiotic therapy.
DEN9405: Methodology in Esthetic Materials
The students in the course will study the esthetic adhesive materials and clinical applications.

DEN9406: Patho-Physiology of Pulpal & Periradicular Disease
The objective is to study and acquire dental and general medical knowledge related to patho-physiology of pulpal and periradicular diseases planning for further study.

DEN9407: Past, present & the future of operative dentistry
For the past 100 or so years operative treatment has been developed and advanced. The treatment concept of amalgam was changed a lot because of the introduction of dental composite and bonding agents. In this lecture, we will discuss the most recently introduced concepts of operative treatment.

Prosthodontics
DEN7500: Prosthodontic Treatment for Edentulous Patient
The prosthodontic treatment for edentulous patients is to restore stomatognathic function. The conventional complete dentures and over-denture can include the use of dental implants.

DEN7501: Removable Partial Denture Design
This course is offered for the students to gain general knowledge on the diagnosis and treatment planning for patients requiring removable partial denture, and gain ability to design partial dentures and apply in clinical situation though various clinical cases.

DEN7502: Clinical Study of Fixed Prosthodontics
Clinical standardized procedures and the materials which are used in fixed prosthodontics will be discussed and summarized.

DEN7503: Treatment Planning for Dental Implants
This seminar is to provide the guidelines to the practitioners to make the proper treatment plans and procedures by studying current literatures.

DEN7504: Biomaterial Science for Prosthodontics
The goal of the course is to introduce the students to the basic principles of biomaterial science for prosthodontics and extending the knowledge to the concepts of new biomaterials.
DEN7505: Basic & Clinical Implant Dentistry
This course provides basic knowledge on implant dentistry, implant components, biomechanics, and their application to clinical dentistry.

DEN7506: Clinical Removable Partial Denture
This didactic and pre-clinic course will discuss the key points in practicing removable partial denture for the restoration of the partially edentulous patient.

DEN7507: Adhesive Dentistry in the Anterior Dentition
The advances in adhesive dentistry dramatically enhanced the quality of the esthetic restoration especially in the anterior dentition. The types and applications of adhesive restoration will be discussed.

DEN9500: Communicating & Understanding with Patient
In patient management, the relationship between the patients and the clinicians has one of the most important influences in the success and failure of a treatment that is to be delivered. This relationship starts from the first encounter, and throughout the interactions between two, whilst the mutual trust and respect are being developed.

DEN9501: Success & Failure of Dental Implants
From some failed implant cases, the reasons for failures were analyzed and evaluated. An improvement in clinical operation, material and choices in implant systems are discussed to improve the long term success rates of implants.

DEN9502: Perio-Prosthodontics
The objectives of the prosthodontics are preservation of the healthy tissue and rehabilitation of the functions and esthetic that were lost. It is almost impossible to establish prosthodontic treatment plan by itself without periodontal considerations. In this respect the periodontal factors associated with prosthodontics will be discussed in detail.

DEN9503: Advanced Removable Prosthodontics
This course is to study the advanced treatments for edentulous patients such as interim denture, immediate denture, overdenture prosthodontics and implant related removable prosthodontics.
DEN9504: Patient Management in Clinical Environment
The objective of this course is to enhance the skills of communications and practice management to effectively deal with the patients.

DEN9505: Basic Research in Implantology
This course studies the current trend of implant dentistry, the past and ongoing biomechanical research findings on the osseointegration and implant designs.

DEN9506: Precision Attachment in Removable Partial Denture
In this course will have the students choose one of the attachment systems and utilize it to fabricate the removable partial dentures.

DEN9507: Interdisciplinary Approach for the Oral Rehabilitation
In clinical dentistry, a multidisciplinary approach is inevitable to get a high quality treatment outcome. Multidisciplinary aspects on diagnosis, treatment planning and treatment will be discussed.

Pediatric Dentistry
DEN7600: Pulp Treatment in Pediatric Dental Patient
This course is to study the pulp of the primary and immature permanent teeth and discuss the pulpal treatment.

DEN7601: Child Management in Dental Office
A goal of the course is to promote positive dental attitudes and improve the dental health policies. This course will discuss the psychological, and nonpharmacological approaches to managing children's behavior during the treatment.

DEN7602: Treatment Planning in Pediatric Dental Patients
This course is designed to study treatment plan for effective dental care and learn from clinical procedure.

DEN7603: Dental Traumatology in Pediatric Dentistry
The objective of the course is to learn about diagnosis and treatment of dental injuries in pediatric patients.

DEN7604: Preventive Orthodontics
This course covers the study of abnormal development of dentition and proper treatment
strategy for prevention of malocclusion.

DEN9600: Treatment of Abnormal Growth & Development of Tooth & Oral Structure
This course is to introduce congenital and acquired disorders of teeth and oral tissue development, and study its treatment method.

DEN9601: Sports Dentistry
This course is to study the treatment of orofacial injuries and the prevention of sports-related orofacial injuries.

DEN9602: Dental Care for the Disabled Children
This course will discuss topics on patient management, treatment plans and preventive dentistry of the disabled children.

DEN9603: Oral Pathology & Medicine in Pediatric Dentistry
This course will study soft tissue disease and oral medicine problems in pediatric patients.

DEN9604: Occlusal Guidance in Pediatric Dental Patient
This course will study the proper guiding method of favorable eruption in mixed dentition.

Periodontics
DEN7700: Studies of Periodontal Regeneration
The objective of this course is to study the principles of periodontal tissue regeneration and techniques to enhance tissue regeneration.

DEN7701: Preventive Periodontics
The objective of this course is to investigate the etiologic factors of periodontal disease and its prevention.

DEN7702: Combined Periodontal Therapy
The objective of this course is to study dental implantology, orthodontics and endodontics related to periodontium.

DEN7703: Etiology of Periodontal Disease
The purpose of this course is to study etiologic elements of various periodontal diseases.
DEN7704: Basic Periodontal Treatment
This course will introduce principles and methods of basic periodontal treatments including surgical and non-surgical periodontal procedures.

DEN7705: Periodontal Disease & Disease of Peri-Implant Tissue Disease
The aim of this course is to study histologic features, pathogenesis and treatment of periodontitis and peri-implantitis.

DEN9700: Studies of Treatment in Advanced Periodontal
This course is designed to discuss diagnosis, treatment and tissue healing in advanced periodontitis.

DEN9701: Esthetic Periodontics
This course deals with esthetic problems incurred by disease progression, sequelae of a periodontal treatment.

DEN9702: Guided Bone Regeneration
This course deals with esthetic problems and a periodontal treatment.

DEN9703: Systemic Disease & Periodontal Disease
The objective of this course is to study the impact of systemic diseases on periodontal tissue, and the relationship between genetics, immunology and periodontal disease.

DEN9704: Host Defense Mechanism in Periodontal Disease
The objective of this course is to study innate and acquired immune mechanisms related to periodontal diseases.

DEN9705: Studies for Successful Implant Treatment
The aim of this course is to enhance the success rate of implant treatment by providing the findings of clinical research.
DEPARTMENTS AND FULL-TIME FACULTY

BASIC SCIENCE

Department of Oral Biology
The Department of Oral Biology was first established in May, 1988, located on the 6th floor in the College of Dentistry building. The department includes faculty members specialized in physiology, microbiology, anatomy, histology, biochemistry, immunology and pharmacology. Currently, the Department of Oral Biology has 12 full-time faculty members, 2 research fellows, and 12 teaching and research assistants. The Department represents one of the largest unified research organizations for a dental school in Korea.

Faculty
Lee, S. I., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1983, Physiology
Park, K. K., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1988, Biochemistry, Molecular Biology
Yoo, Y. J., DDS, Ph.D., Director for Predental Program, Professor, Yonsei University, Ph.D., 1994, Microbiology, Immunology
Seo, J. T., DDS, Ph.D., Professor, University of Manchester, Ph.D., 1995, Pharmacology
Shin, D. M., DDS, Ph.D., Vice Dean for Research Affairs, Professor, Yonsei University, Ph.D., 1997, Physiology
Kim, H. J., DDS, Ph.D., Professor, Chair, Yonsei University, Ph.D., 1997, Anatomy
Jung, H. S., Ph.D., Professor, University College London, Ph.D., 1997, Histology, Developmental Biology
Cha, J. H., Ph.D., Director of International Affairs, Professor, University of North Carolina, Ph.D., 1996, Microbiology, Immunology
Chung, W. Y., Ph.D., Associate Professor, Seoul National University, Ph.D., 1998, Biochemistry, Molecular Biology
Hu, K. S., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2007, Anatomy
Cho, S. W., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2006, Histology, Developmental Biology
Moon, S. J., DDS, Ph.D., Assistant Professor, Johns Hopkins University School of Medicine, Ph.D., 2006, Molecular genetics
Lee, J. M., Ph.D., Research Assistant Professor, Yonsei University, Ph.D., 2009, Developmental Biology
Shim, J. W., Ph.D., Research Assistant Professor, Yonsei University, Ph.D., 2009, Molecular Biology
Appendix 1.1.2

Department of Oral Pathology
The Department of Oral Pathology was established in March, 1993. The department is responsible for offering courses in general pathology, oral and maxillofacial pathology, combined with laboratory classes in microscopic examination of the diseases. Clinical pathology course is one of the problem based learning courses that facilitates the students to apply the materials they have learned from the course to clinical situations. There are ten tutors working for the course to lead the class.

Faculty
Kim, J., DDS, Ph.D., Professor, Director of Oral Cancer Research Institute, Yonsei University, Ph.D., 1978.
Yook, J. I., DDS, Ph.D., Professor, Chair, Yonsei University, Ph.D., 1987.
Kim, H. S., DDS, Ph.D., Assistant Professor, Yonsei University, Ph.D., 2006.

Department of Preventive Dentistry & Public Oral Health
The Department of Preventive Dentistry and Public Oral Health was established as an independent department in February, 1996, with an appointment of Professor H. K. Kwon as head of the department. Recently, the department was recognized as the front runner in preventive dentistry in Korea. The department has 2 full-time faculty members, three research lecturers, six assistants and one research fellow.

Faculty
Kwon, H. K., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1994, Community Dentistry, Oral Epidemiology.
Kim, B. I., DDS, Ph.D., Associate Professor, Chair, Yonsei University, Ph.D., 2004, Preventive Dentistry.

Department of Dental Biomaterials & Bioengineering
The Department of Dental Biomaterials & Bioengineering was founded in 1988, and the name of the department was changed to the Department of Biomaterials and Bioengineering in 2002 to reflect the expansion of the department’s activities and responsibilities. The primary focus of the department is to teach courses in dental biomaterials to dental students, graduate students and dental hygiene students. The department has a joint program with engineering school and collaborative research projects with the overseas dental schools in USA, Japan and Russia. The department currently had three full-time faculty, sixteen part-time faculty, three teaching assistants, one technician and four testing inspectors.
Appendix 1.1.2

Faculty

Kim, K. N., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1984.
Kim, K. M., DDS, Ph.D., Vice Dean for Academic Affairs, Professor, Chair, Yonsei University, Ph.D., 1992.

CLINICAL SCIENCE

Department of Orthodontics
The Department of Orthodontics not only studies the classification, etiology, and treatment of malocclusion, but also puts effort on various basic and clinical scientific researches in cooperation with other departments to correct congenital and acquired facial deformities. Clinically, the department deals with the patients with deformities in the jawbone, abnormal alignment of teeth, and unaesthetic facial profile, to accomplish the maximum esthetic and functional outcome for individual patients. Computerized analysis and prediction of treatment changes in the facial bones and soft tissues are available for better understanding and communication between patient and doctors.

Faculty
Park, Y. C., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1986.
Baik, H. S., DDS, Ph.D., Professor, Yonsei University, Ph.D. 1986.
Hwang, C. J., DDS, Ph.D., Director of Craniofacial Deformity Research Center, Professor, Yonsei University, Ph.D. 1991.
Kim, K. H., DDS, Ph.D., Professor, Chair, Yonsei University, Ph.D. 1994.
Yu, H. S., DDS, Ph.D., Vice Dean for Graduate Affairs, Professor, Yonsei University, Ph.D. 1999.
Lee, K. J., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D. 2004.
Cha, J. Y., DDS, Ph.D., Assistant Professor, Yonsei University, Ph.D. 2007.
Chung, C., DDS, Ph.D., Assistant Professor, Tokyo University, Ph.D. 2004.
Choi, Y., DDS, Ph.D., Clinical Assistant Professor, Yonsei University, Ph.D. 2009.
Kim, M. J., DDS, Ph.D., Clinical Assistant Professor, Yonsei University, Ph.D. 2012.
Choi, T. H., DDS, M.Sc., Clinical Research Assistant Professor, Yonsei University, M.Sc. 2010.
Kim, J. Y., DMD, M.Sc., Clinical Fellow, Univ. of Pennsylvania School of Dental Medicine, M.Sc. 2011.
Department of Orofacial Pain & Oral Medicine
The Department of Orofacial Pain & Oral Medicine is one of the special fields in dentistry which deals with diagnosis and management of orofacial pain, temporomandibular disorders, and oral diseases present in orofacial area. Dental management of medically compromised patients is also included. The focus of the department’s undergraduate and graduate programs is on didactic, clinical and research in diagnosis and management of diseases in oral mucosal as well as orofacial regions. The department’s objective is to teach the students to understand different diseases, neuropathic pain in orofacial region, migraine, tension-type headache and chronic headache. The students learn to perform physical examination, make diagnosis, and develop proper treatment plans.

Faculty
Choi, J. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1997.
Kim, S. T., DDS, Ph.D., Associate Professor, Chair, Yonsei University, Ph.D., 2008.
Ahn, H. J., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2004.
Kwon, J. S., DDS, Ph.D., Clinical Assistant Professor, Yonsei University, Ph.D., 2009.

Department of Oral and Maxillofacial Radiology
The research on means to diagnose on various diseases under an active progression using the most advanced equipment maintained by the Department of Oral and Maxillofacial Radiology. Comparison, analysis, and evaluation are performed between recently developed equipment for radiologic inspection and the existed one. At the same time, the research on the relation between radiological and clinical findings is also under the consistant progression.

Faculty
Park, C. S., DDS, Ph.D., Professor and Chair, Yonsei University, Ph.D., 1986.
Park, H., DDS, Clinical Associate Professor, Yonsei University, MDS, 2005.
Jeong, H. G., DDS, Clinical Associate Professor, Yonsei University, MDS, 2006.
Jeon, K. J., DDS, Ph.D., Clinical Assistant Professor, Yonsei University, Ph.D., 2011.

Department of Oral and Maxillofacial Surgery
The department aims to be the standard bearer of dental education, post-doctoral training, and high quality patient care. The department is actively promoting exciting research projects from basic science to practical clinic oriented research. The faculty in the department dedicates to teaching in facial trauma, dento-alveolar surgery, TMJ
disease, orthognathic surgery, reconstructive and implant surgery, benign and malignant pathology, cleft lip and palate, and management of infection. The objective of undergraduate program is to teach management of medically compromised patients and routine dento-alveolar surgery. The goal of the resident and postgraduate program is to train oral and maxillofacial surgeons for private practice and academic career.

Faculty
Kim, H. G., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1985.
Park, H. S., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1985.
Yoo, J. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1990.
Park, K. H., MDS, Professor, DanKook University, 1994.
Cha, I. H., DDS, Ph.D., Professor, Korea University, Ph.D., 2000.
Choi, B. H., DDS, Ph.D., Professor, Freiburg University, Ph.D., 1991.
Lee, S. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1996.
Kang, J. W., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 1997.
Kim, H. J., DDS, Ph.D., Professor, Chair, Munchen University, Ph.D., 1999.
Huh, J. K., DDS, Ph.D., Professor, Yonsei University, Ph.D., 2003.
Jung, Y. S., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2005.
Nam, W., MDS, Associate Professor, Yonsei University, MDS, 2001.
Jung, H. D., MDS, Clinical Assistant Professor, Yonsei University, MDS, 2008.
Kim, S., MDS, Clinical Research Assistant Professor, Yonsei University, MDS, 2010.
Kim, H. J., MDS, Clinical Research Assistant Professor, Yonsei University, MDS, 2005.

Department of Conservative Dentistry
Ever since starting with six dental unit chairs, Department of Conservative Dentistry has improved dramatically in many aspects and become equipped with the best facilities. When the current dental hospital was built in 1995, the department was expanded with thirty dental unit chairs including a surgical suite. Also advanced new technologies have been continuously incorporated- for example, dental surgical microscope, CAD/CAM system and so forth- to keep us to lead our field. In the 1997's Korean dental school appraisal, we were awarded with an honor of the best department. We aren't, however, satisfied with the achievements so far and put our efforts to become the world best in the conservative dentistry. In March 2008, we are opening the microscope center which has been prepared to provide the best educational environment for our residents.

Faculty
Lee, C. Y., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1990.
Appendix 1.1.2

Lee, S. J., DDS, Ph.D., Professor, Seoul National University, Ph.D., 1991.
Park, S. H., DDS, Ph.D., Professor, Chair, Yonsei University, Ph.D., 1993.
Roh, B. D., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1995.
Jung, I. Y., DDS, Ph.D., Professor, Yonsei University, Ph.D., 2001.
Kim, E., DDS, Ph.D., Professor, Yonsei University, Ph.D., 2003.
Park, J. W., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2000.
Shin, S. J., DDS, MS, Associate Professor, University of Pennsylvania, MS, 2004.
Shin, Y. S., MDS, Clinical Assistant Professor, Yonsei University, MDS, 2005.
Song, M., MDS, Clinical Research Assistant Professor, Yonsei University, MDS, 2009.

Department of Prosthodontics

Prosthodontics is the dental specialty responsible for the diagnosis, treatment plan, rehabilitation and maintenance of patients with complex clinical conditions using biocompatible substitutes, including implants, to restore missing or deficient teeth and craniofacial tissue in esthetics and functions. Prosthodontics requires an extensive and combined knowledge of oral anatomy, oral physiology, materials science, occlusion, esthetics and head and neck oncology. Prosthodontics is divided into two major areas by its functions and forms; fixed and removable prosthodontics. Removable prosthodontics can be further divided into partial and complete prosthodontics. Prosthodontics also includes maxillofacial prosthodontics for facial defect.

Faculty

Chung, M. K., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1985.
Han, D. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1987.
Lee, K. W., DDS, Ph.D., Dean, Professor, Yonsei University, Ph.D., 1988.
Han, C. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1991.
Moon, H. S., DDS, Ph.D., Director of Central Dental Laboratory, Professor, Yonsei University, Ph.D., 2002.
Shim, J. S., DDS, Ph.D., Professor, Chair, Manchester University, Ph.D., 1999.
Kim, S. J., DDS, Ph. D., Associate Professor, Yonsei University, Ph.D., 2005.
Lee, J. H., DDS, Ph.D., Assistant Professor, Yonsei University, Ph.D., 2008.
Park, Y. B., DDS, Ph.D., Assistant Professor, SUNY at Buffalo, Ph.D., 2009.
Kwon, J. H., DDS, Clinical Assistant Professor, Yonsei University, M.Sc., 2008.
Jang, J. S., DDS, Ph.D., Clinical Assistant Professor, Yonsei University, Ph.D., 2008.
Jeon, K. J., DDS, Clinical Assistant Professor, Yonsei University, M.Sc., 2002.
Kim, J. H., DDS, Clinical Research Assistant Professor, Yonsei University, M.Sc., 2007.
Kim, S. H., DDS, Clinical Fellow, Yonsei University, M.Sc., 2009.
Department of Pediatric Dentistry
The Department of Pedodontics has been part of the Yonsei University College of Dentistry since 1968. The pediatric clinic has 29 chairs and equipped with digitalized radiographic system (Full FACS system), an electronic medical recording system, a gas inhalation sedation system, a patient monitoring system, and patient restraint equipment. Clinical research in the department is focused on maintenance of healthy dentition and oral hygiene through prevention, and dental caries. Currently, the department has five full-time faculty, 12 residents, 3 dental hygienists, and 9 assistants.

Faculty
Son, H. K., DDS, Ph.D., Professor, Tokyo Dental College, Ph.D., 1994.
Choi, B. J., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1988.
Lee, J., DDS, Ph.D., Professor, Chair, Yonsei University, Ph.D., 1998.
Choi, H. J., DDS, Ph.D., Vice Director of Dental Hospital, Professor, Chosun University, Ph.D., 1998.
Kim, S. O., DDS, Ph.D., Director for Predoctoral Student Clinic, Associate Professor, Yonsei University, Ph.D., 2002.
Song, J. S., DDS, Ph.D., Assistant Professor, KyungHee University, Ph.D., 2011.

Department of Periodontology
The Department of Periodontology was established by obtaining the formal authorization from the ministry of education in 1974. On basis of Research Institute for Periodontal Regeneration (established on 1995), many studies on periodontal regeneration and dental implant, esthetic periodontal therapy, perio-prosthodontic therapy, perio-orthodontic therapy are carried out through cell, animal experiments and clinical research, publishing several papers including SCI papers.

Faculty
Chai, J. K., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1982.
Cho, K. S., DDS, Ph.D., General Director of Dental Hospital, Professor, Yonsei University, Ph.D., 1988.
Moon, I. S., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1993.
Choi, S. H., DDS, Ph.D., Professor, Yonsei University, Ph.D., 1993.
Kim, C. S., DDS, Ph.D., Associate Professor, Chair, Yonsei University, Ph.D., 2003.
Lee, D. W., DDS, Ph.D., Assistant Professor, Yonsei University, Ph.D., 2010.
Jung, U. W., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2007.
Lee, J. S., DDS, M.Sc., Clinical Assistant Professor, Yonsei University, M.Sc., 2007.

Department of Advanced General Dentistry
The Department of Advanced General Dentistry, consisted of 30 faculty & staffs, has opened on March of 2006 to improve the quality of life of patients and solve the problem of taking too much time for the comprehensive dental care covering diagnosis and establishments of a suitable treatment plan. Patients visiting the department of Advanced General Dentistry for the first time can be provided with overall diagnosis and general dental treatment in a faster and more convenient manner. If more accurate examination and diagnosis are needed, patients can be referred to specialized departments for a specific field so that more cooperative and efficient dental treatment can be made. We always put the needs of patients as the top priority and make every effort for the safest and most effective treatment.

Faculty
Kim, K. D., DDS, Ph.D., Vice Dean For Student Affairs, Professor, Chief, Yonsei University, Ph.D., 1997.
Park, W., DDS, Ph.D., Associate Professor, Yonsei University, Ph.D., 2006.
Jung, B. Y., DDS, Ph.D., Clinical Associate Professor, Yonsei University, Ph.D., 1999.
Pang, N. S., DDS, M.Sc., Clinical Assistant Professor, Yonsei University, M.Sc., 2005.
Yun, H. J., DDS, M.Sc., Clinical Fellow, Yonsei University, M.Sc., 2010.

RESEARCH INSTITUTES

Oral Science Research Institute
Date Established: May 1, 1998
Director: Dr. Jung. I. Y.
Areas of Research: The goals of the center are to promote research on oral biology, oral health and oral health policy, and to develop and strengthen joint partnership in dental science between academia and industry.

Research Institute for Dental Biomaterials and Bioengineering
Date Establish: March 1, 1991
Director: Dr. Kim, K. M.
Areas of Research: The main objectives are to perform research projects on physical and biological properties of dental biomaterials and the development of new dental biomaterials.
Appendix 1.1.2

The Craniofacial Deformity Institute
Date Established: March 1, 1992
Director: Dr. Hwang, C. J.
Areas of Research: The major activities of the institute are to perform research on the growth and development and deformities of the craniofacial region.

Research Institute for Periodontal Regeneration
Date Established: April 30, 1995
Director: Dr. Chai, J. K.
Areas of Research: The staff is currently pursuing the following research topics; Periodontal tissue regeneration, treatment and pathogenesis of peri-implantitis, and maintenance care following periodontal treatment

Oral Cancer Research Institute
Date Established: December, 1997
Director: Dr. Kim, J.
Areas of Research: Despite the introduction of new therapeutic modalities to the treatment of human cancer, improvements in long term survival rates have only been modest. There has been an increasing interest in the development of preventive strategies to slow or stop the onset of invasive disease. The research staff of the institute is engaged in oral squamous cell carcinomas. Oral Cancer Research Institute is dedicated to preventing human cancer by studying carcinogenesis of early lesions of human cancer, by investigating biomarkers in the high risk factors of malignant transformation, and by carrying out clinical trials for chemoprevention.

Faculty
Kim, K. Y., Ph.D., Research Assistant Professor, SungKyunKwan University, Ph.D., 1998.
Hwang, Y. S., Ph.D., Research Assistant Professor, Chonnam National University, Ph.D., 2002.
Kim, N. H., Ph.D., Research Assistant Professor, Yonsei University, Ph.D., 2007.
Bae, J. Y., Ph.D., Research Assistant Professor, Kyoto University, Ph.D., 2009.
Bak, E. J., Ph.D., Research Assistant Professor, Tokyo University, Ph.D., 2006.
Zhang, X. L., Ph.D., Research Assistant Professor, Korea University, Ph.D., 2005.
Appendix 1.1.2

Institute of Human Identification
Date Established: 2002
Director: Dr. Kim, H. J.
Areas of Research: One of the goals of the center is to construct a human identification data bank based on the quality control and standardization of these data and technologies, and furthermore to contribute to solving the domestic social issues related to human identification.

Faculty
Park, J. T., Ph.D., Research Assistant Professor, Chosun University, Ph.D., 2007.

Center for Dental Education Development
Date Established: 2010
Director: Dr. Kim, K. M.

Faculty
Kim, J. S. (Jay), Ph.D., Research Professor, Florida State University, Ph.D., 1982.
Kim, J. A., Ph.D., Research Assistant Professor, Yonsei University, Ph.D., 2006.