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DRIVING
VALUES
FORWARD.

Academic Year 2024-2025

Double Master's Degree in Oral Surgery and Implantology

Universitat
Internacional
de Catalunya
Faculty of dentistry

uic.es/dentistry

2024-2027 Double Master's Degree in Oral Surgery and Implantology.

Introduction

Welcome to the Double Master's Degree in Oral Surgery and Implantology.

We are delighted to extend a warm welcome to you as you embark on a transformative journey into the area of advanced oral surgery and implant dentistry. In this cutting-edge programme, we strive to redefine excellence in the field of oral surgery and implant dentistry, offering a comprehensive curriculum that blends theoretical knowledge with hands-on clinical experiences.

Advancements in oral surgery and dental implantology have revolutionised the way we approach complex cases and enhance a patient's quality of life. This programme is meticulously designed to provide you with the latest skills, techniques, and insights necessary to navigate the intricacies of contemporary oral and maxillofacial procedures.

Programme Highlights:

- Comprehensive Curriculum: Our programme integrates a diverse range of subjects, covering everything from advanced diagnostic imaging and treatment planning to surgical techniques and post-operative care in oral surgery and implant dentistry. A fully digital workflow will be encouraged at all stages. Residents will also acquire extensive knowledge of oral rehabilitation and prosthodontics, working with patients from diagnosis and surgery to delivery of the provisional and definitive prosthesis. You will engage with renowned faculty members who are leaders in their respective fields, ensuring a robust and dynamic learning experience.

- State-of-the-Art Facilities: Immerse yourself in a learning environment equipped with state-of-the-art facilities and cutting-edge technology. Our surgical simulation labs provide a hands-on platform to refine your skills under the guidance of experienced mentors.

- Clinical Exposure: Gain valuable clinical exposure through rotations at our affiliated hospitals and clinics. Work alongside seasoned professionals, participate in real-life cases, and apply your knowledge in diverse clinical settings.

- Research Opportunities: Foster your passion for innovation and contribute to the ever-evolving field of oral surgery through our research initiatives. Collaborate with faculty members on projects that push the boundaries of knowledge and make a lasting impact on patient care.

- Interdisciplinary Approach: Recognizing the interdisciplinary nature of oral surgery, our programme encourages cooperation with other healthcare disciplines. Engage in case discussions, participate in multidisciplinary clinics, and refine your ability to work seamlessly within a team.

As you embark on this educational journey, be prepared to challenge yourself, expand your horizons, and emerge as a skilled and compassionate oral surgeon. The Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology Programme is not just a programme; it is a gateway to a fulfilling career that will have an impact in oral healthcare.

We look forward to accompanying you on this exciting adventure and witnessing the transformation that awaits you.

The double master's degree in oral surgery and implantology is made up of the "University Master's Degree in Oral Surgery and Implantology" of 120 ECTS and the "Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology" * of 60 ECTS.
Over the course of this programme students will acquire the most advanced skills and training in oral surgery and implantology, which will enable them to safely treat complex cases.
At the end of the three years training, students will obtain two degrees: "University Master in Oral Surgery and Implantology"* and "Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology".
Welcome to the future of oral surgery excellence!

During this programme, students will acquire advanced knowledge of oral surgery and implant dentistry, which will allow them to treat complex cases safely. Residents will also acquire extensive knowledge of oral rehabilitation and prosthodontics, working with patients from diagnosis and surgery to delivery of the provisional and definitive prosthesis. A fully digital workflow will be encouraged at all stages. Diagnosis and planning is carried out in modern facilities that have state-of-the-art intraoral scanners and three CBCTs to perform the best possible treatments.
A multidisciplinary approach will always be sought, which will favour interaction with other departments such as restorative, endodontics, periodontology, and orthodontics. Students will also acquire knowledge of cardiopulmonary resuscitation, sedation and conscious sedation with specific training and will work in a hospital environment with patients under sedation or general anaesthesia.
Active participation in courses and congresses will also be an important task for the residents.
Finally, another important aspect of this programme is the training in pre-clinical and clinical research, through the many research projects that are generated year after year and that many times are published in high-impact journals.

Organizing Department

Department of Oral and Maxillofacial Surgery
Faculty of Dentistry

Chairman

Dr Federico Hernández Alfaro

Programme Directors

Dr Samir Aboul-Hosn
Dr Pablo Altuna

Coordinatiors

Dr Jorge Bertos Quilez

Dr Susana García

Academic Staff

Dr. Federico Hernández Alfaro, Dr. Samir Aboul-Hosn, Dr. Pablo Altuna, Dr. Jorge Bertos, Dr. Albert Barroso, Dr. Octavi Ortiz, Dr. Basel Elnayef, Dr. Susana García, Dr. Jordi Gargallo Albiol, Dr. Maria Giralt, Dr. Naroa Lozano, Dr. Ernest Lucas, Dr. Silvia Pérez, Dr. Oscar Salomó, Dr. Adaia Valls, Dr. Juan Zanón, Dr. Jordi Marqués, Dr Sandra Barrio, Dr Aida Lázaro, Dr Noelia Fleischmacher, Dr María Luisa Augé, Dr Cristina Porta, Dr Marc Quevedo, Dr Gian Maria Ragucci, Dr Andrea Galve, Dr Gina Lloret, Dr Marta Tresserra, Dr Marc Prunera, Dr Alex Batlle, Dr Pablo Hernández, Dr Laura Cañagueral, Dr Carlos Sancho, Dr Nuria Mestres, Dr Pindaros Phoskolos, Dr Erika Brancacci.

Academic Staff Cross-Disciplinary Subjects:

Dr. Angela Donate, Dr Rut Fadó, Dr Victor Gil, Dr Adrian Gonzalez, Dr Josep Mª Huguet, Dr Angela Mayoral, Dr Mariana Ponte.

Guest Lecturers (online or on-site)

Dr Luca de Stavola (Italia)
Dr Joao Carames (Universidad de Lisboa)
Dr. Fernando Suárez del Amo
Dr Andrea Chierico (Verona)
Dr David Peñarrocha (Universidad de Valencia)
Dr Patricia Solano (Universidad de Sevilla)
Dr. Alberto Sicilia (Universidad de Oviedo)
Dr. Santiago Mareque (Universidad de Santiago de Compostela)
Dr. Joaquín López Malla (Universidad Internacional Alfonso X Madrid)

Guest Lecturers (UIC Barcelona)

Dr. José Nart
Dr. Vanessa Ruiz
Dr. Cristina Vallès
Dr. Oriol Cantó
Dr. Jorge Ortega
Dr. Santi Costa
Dr. Josep Cabratosa
Dr Álvaro Blasi
Dr Gonzalo Blasi
Dr.Fernando de la Iglesia
Dr Javier Molina
Dr Oriol Torres
Dr. Héctor Perellada
Dr Guillermo Rocafort

Dr Rodrigo González
Dr Ricardo Palacios

Objectives

The main objective of this programme is to provide advanced training in oral surgery and implantology, which will enable students to safely treat complex cases. Specifically, the programme aims to:

● Enable the student to perform an anamnesis, clinical examination, and diagnosis, using.
the necessary complementary explorations.
● Provide the student with advanced knowledge in oral and maxillofacial radiology.
● To empower the student to detect when a surgical intervention is indicated and to apply
the most appropriate technique among the different treatment alternatives.
● Instruct students to diagnose and carry out a surgical and rehabilitative treatment plan in oral implantology
● To instruct students to diagnose and carry out a surgical and rehabilitative treatment plan in oral implantology that fits the patient's needs.
● Provide the necessary knowledge to know and apply the different regenerative/reconstructive surgical procedures.
● Provide the necessary knowledge to know and apply the different advanced hard and soft tissue regenerative/reconstructive surgical procedures.
● To prepare the student to recognise the infectious, inflammatory, cystic and tumor pathology of the maxillofacial region and treat it appropriately

Programme

Curriculum description

The curriculum of the University Master's Degree in Oral Surgery and Implantology* consists of 6 compulsory modules (120 ECTS) plus a "Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology" (60 ECTS).

The first module covers biomedical sciences; the second, oral surgery and implantology; the third complementary specialties; the fourth research in oral surgery; the fifth, clinical practice; and the sixth, master's Thesis (TFM). Modules 7 to 10 listed below correspond to the Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology. All modules are compulsory.

1.Biomedical Sciences

In this module, students will acquire advanced concepts in biostatistics, research methodology and ethics, scientific communication, literature research, pharmacology, microbiology, head and neck anatomy, research protocols, molecular and cellular biology, oral medicine/pathology, conscious sedation, and Automated External Defibrillation (AED).

2.Oral Surgery and Implantology

The Oral Surgery and Implantology module is the most specialized block of the programme. In this module, students will gain advanced knowledge in oral surgery, maxillofacial surgery, and implantology through various clinical sessions. They will acquire skills in surgical dissection applied to the maxillofacial region, essential for working safely with patients. Surgical planning will be a crucial component, including a subject on digital customised surgery.

3.Complementary Specialties

In this module, students will acquire knowledge of other dentistry specialties, including periodontics, oral rehabilitation, oral and maxillofacial radiology, and orthodontics. Clinical simulation workshops related to the specialty (biomaterials, mini-plates, etc.) will also be included. Lastly, they will receive specific training for managing a dental clinic.

4.Research in Oral Surgery

This module includes sessions on the review of literature in classical and contemporary oral surgery and implantology, an essential complement to foster self-learning. Additionally, specific training will be provided for clinical research on patients in the field of oral and maxillofacial surgery and implant dentistry.

5.Clinical Practice

In this module, students will put theoretical knowledge into practice. Clinical practice will take place at the University Dental Clinic (UDC) and other affiliated hospital centres. The module includes sessions on oral rehabilitation, oral surgery, and implantology. Clinical work is conducted in a multidisciplinary manner.

6. Master's Thesis

The Master's Thesis module (TFM) includes guidance from responsible lecturers who are responsable development and follow-up of the protocol. Students will have hours dedicated to autonomous learning.

7.Advanced Oral Surgery and Implantology Module

The Advanced Oral Surgery and Implantology module represent the pinnacle of specialization within the programme, offering a profound exploration of intricate concepts. In this module, participants will delve into cutting-edge insights in oral surgery, maxillofacial surgery, and implantology through a series of specific clinical sessions. Emphasising the forefront of innovation and research, the module places a paramount focus on surgical planning, incorporating an in-depth exploration of digital customized surgery.

8. Oral Surgery's and Implantology Programme: Clinical Case Defense

The clinical case defense in the context of the Oral Surgery and Implantology Programme serves as a comprehensive presentation and examination of the participant's applied knowledge, decision-making skills,

and clinical expertise in the field. During the defense, participants are expected to articulate a thorough understanding of the presented cases, demonstrating proficiency in various aspects, including diagnosis, treatment planning, surgical execution, and postoperative management. The clinical case defense serves not only as an evaluation of individual competence but also as a platform for fostering academic dialogue and promoting a collaborative learning environment within the Oral Implantology Master's Programme.

9. Advanced Complementary Specialties

In this module, students will acquire knowledge of other dentistry specialties, including periodontics, oral rehabilitation, and orthodontics. Clinical simulation workshops related to the specialty will also be included. The Customized Digital Surgery subject in the master's degree programme digs into advanced techniques at the intersection of technology and surgical precision. Students will explore cutting-edge methodologies for tailoring surgical interventions using digital tools, with a focus on personalized treatment planning, designing, printing and execution.

10. Advanced Clinical Practice

In this module, students will put theoretical knowledge into practice in even more advanced cases. Clinical practice will take place at the University Dental Clinic (CUO) and other affiliated hospital centres. The module includes sessions on oral rehabilitation, oral surgery, and implantology. Clinical work is conducted in a multidisciplinary manner.

Courses and conferences

Students must attend and present oral/poster communications in all mandatory in national congresses during the programme. We usually attend SECIB, SECOM, SEPA, SEPES.

During the programme, students must also present an oral communication yearly at one of the following international conferences: EAO, Europerio or Osteology.

The cost of travel, accommodation, food and registration for the conferences is not included in the programme registration fee.

CPR course

Cardiovascular diseases are a major public health problem. Most unnecessary deaths are caused by coronary diseases and often happen in out-of-hospital settings. For this reason providing training to the general population is encouraged, not only people directly related to the healthcare field, since they can play a crucial role as primary healthcare assistants. The training programme will be given by an instructor from the Catalan Resuscitation Council (CCR) and will include the content stipulated for official BLS-AED training. Students who successfully pass the course will receive a BLS-AED official training certificate, issued by the Catalan Resuscitation Council (CCR).

European Association for Osseointegration Certified Dentist

Students must prepare clinical cases during the three academic years to pass the European Academy of Osseointegration (EAO) test and become an EAO Certified Dentist.

Methodology and evaluation

The main training activities carried out in the degree are:
Master classes
Case method for the analysis and resolution of clinical cases
Laboratory
Practical workshops
Research
Active participation in conferences and symposiums

The teaching methodologies developed in the programme are as follows:
Theoretical class
Practical class
Seminars or conferences
Individual and/or group work
External work practices
The TFM will be carried out individually by each enrolled student, under the guidance and support of a lecturer-director.

The main evaluation systems to be used for core/compulsory subjects are:

- Continuous evaluation
- Theoretical exams
- Case portfolio
- Presentation of a written article
- Case portfolio defence
- Master's thesis defence

Facilities

At UIC Barcelona, clinical practices with real patients are fundamental in training high-level professionals.

The UIC Barcelona Faculty of Dentistry has state-of-the-art digital equipment that brings students close to the reality of day-to-day life and prepares them in all theoretical and practical aspects of working in a clinic in the safest and most professional way.

We currently have the following facilities available:

The UIC Barcelona University Dental Clinic has 88 dental booths, all of which are equipped with the most cutting-edge technology: 88 booths for general care, 4 booths for special needs patients and 16 booths for surgery and conscious sedation.

The Clinic attended around 75,000 appointments in the last academic year.

The Clinic has two prosthetics laboratories with the latest digital imaging technology, which allows students to practice the latest techniques in all areas of dentistry.

The Faculty has a dedicated CAD CAM technology laboratory with the following equipment:

- Four milling machines:
- 13 intraoral scanners (four 3Shape, one 3M, one Cerec Omnicam, two PrimeScan, one Itero, two Carestream, one Medit, one Shinning)
- Three 3D printers
- Design software: nine Exocad, eleven 3shape and two Cerec
- Four Exoplan, one Geomagic, one BlueSky
- One ceramic furnace
- One zirconia sintering furnace
- 2cbct and 1iCat
- One Teckscan
- One SDI Matrix

All dental equipment is fitted with intraoral radiology for additional testing. The centre has two diagnostic imaging rooms for panoramic dental X-rays with two CBCT. 3D iCat imaging machines.

Digital technology and prosthetic-implant planning software programs allow students to learn and work with the latest technologies from day one. We have a design room with 14 computers (CAD) and a new CAM lab (milling machines, printers) for student training.

- Option to stream dentistry treatment live
- Computerized storage for material delivery and collection
- Sterilisation service for medical equipment and instruments

All the resources are current, and the University has agreements with different industries in the sector, thus promoting the relationship between the industry, universities and R+D+I.
The technology available to our students helps them gain awareness of the daily reality at a clinic and for preparing in all theoretical and practical aspects of working at a clinic in the safest and most professional way.

We have six new laboratories, one of which is dedicated to dental research.

We have eight Zeiss Extaro and Zumax OMS 2360 high-resolution microscopes.

Pre-clinical laboratory, a technological laboratory, has 95 dental simulators, with phantom head models, which are oral cavity simulation tools, and X-ray and digital radiology equipment for practising dentistry using the Simudont virtual reality simulators. This step introduces virtual reality in the student's pre-clinical practicums, enhancing their learning experience and it is also a great tool as a new teaching methodology. It is a step forward in innovation and improvement in student training. This new laboratory allows students to practice real-life-like dentistry before they practice on patients.

Places in classrooms:
2,355 places in classrooms
88 places in clinics (dentistry booths)
192 places in gyms
120 places in IT classrooms
420 places in laboratories
415 m^2 of laboratory space dedicated to research

Places in study rooms:
361 seminars, multifunctional rooms and a library study room

Places in Libraries:
The Library on our Sant Cugat campus measures 1,201.53 metres squared.
374 reading places throughout the library and three study rooms

Basic information

Calendar

September 2024 to July 2027

Timetable

First year:
Full time programme (the schedule will be provided before classes begin)

Second year:
Full time programme (the schedule will be provided before classes begin

Third year:
Full time progamme (the schedule will be provided before classes begin)

The second and third years of the programme will consist of subjects from the University Master's Degree in Oral Surgery and Implantology and the Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology.

Pre-registration date

From January 2024

Fees

First year:
29.752 €*

Second year:
31.398 €*

Third year:
23.960 €*

*This amount includes the annual enrolment(€494/year).
The price for the second and third year (2025-2026 and 2026-2027) is still pending approval by our University's Board of Governors and is subject to increase based on the Spanish Consumer Price Index (IPC).

Places available:

The number of places available is limited.

Accreditation

120 ECTS, “University Master’s Degree in Oral Surgery and Implantology” *
60 ECTS, Master's Degree of Lifelong Learning in Advanced Oral Surgery and Implantology”

**Specific name pending of approval by Board of Governors.*

Admission profile

The admission of the students to the Double Master’s Degree Oral Surgery and Implantology at the Universitat Internacional de Catalunya is governed by its own selection process that involves passing the University’s own admission tests and the submission of specific documentation, always in compliance with the provisions of the set forth in article 18 of Royal Decree 822/2021.

- Hold a Bachelor’s degree in Dentistry (or equivalent).
- English B2 level as per the Common European Framework of Reference for Languages or equivalent is recommended and will be verified during the interview with the candidate.

Admission criteria

The admission tests consist of a weighted evaluation of the academic record, personal profile, motivations and aptitudes, which will be based on the following criteria:

- Personal interview
- Academic record
- Specific test

Completing all three years of the Double Master’s Degree is compulsory.

Admissions process

To start the admission process, you complete the admission form which can be found on the University’s website (www.uic.es/dentistry), and submit all the required documentation:

- Bachelor's degree*
- Academic certificate of qualifications (transcript)*
- ID or Passport
- Curriculum Vitae
- General Terms and Conditions document signed.
- Letter(s) of recommendation (recommended, not compulsory)

*For students from outside the European Union, both their qualifications and their degree qualification must be attested through diplomatic route or carry a Hague Apostille. (The degree qualification does not need to have been officially homologated).
Candidates who are in the last year of their degree programme must provide an academic certificate o the qualifications they have obtained at the time they register.
**Non-refundable administration fees.

Once all documentation has been received and checked for validity, the registration fee (€90**) must be paid and proof of payment sent by mail to: infodonto@uic.es (forme UIC Barcelona graduates alumni are exempt from this fee).

Contact:

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