

International Master's Degree in Oral Surgery (IMOS)

International Master's Degree in Oral Surgery (IMOS) 2021-2024

Introduction

IMOS focuses on oral surgery techniques. IMOS provides students with basic and advanced surgery skills in oral surgery. The aim of this programme is to be a comprehensive complement for dentists focused on oral surgery. After graduating from IMOS, students should be able to manage complex oral surgery and clinical cases of implantology. IMOS students will receive a high level of THEORETICAL and practical training in the diagnosis, treatment planning, and surgical management of oral surgical pathology over the three consecutive years. They will also achieve advanced research skills. In the field of implant dentistry, IMOS will not only cover surgical aspects, but also pre-surgical planning, prosthetic guided surgery, and rehabilitation.

Organising Department

Department of Oral and Maxillofacial surgery
Faculty of Dentistry

Chairman

Dr Federico Hernández Alfaro

Programme Directors

Dr Samir Aboul-Hosn
Dr Pau Altuna

Coordinators

Dr Jorge Bertos Quilez
Dr Susana García

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Academic Board

Dr Samir Aboul-Hosn, Dr Maria Luisa Augé Castro, Dr Albert Barroso, Dr Jorge Bertos, Dr Oriol Cantó, Dr Santiago Costa, Dr Mitchel Chávez, Dr Basel Elnayef, Dr Federico Hernández Alfaro, Dr Susana García, Dr Jordi Gargallo Albiol, Dr Maria Giralt, Dr Aida Lázaro, Dr Josefa López, Dr Naroa Lozano, Dr Ernest Lucas, Dr Marta Marcé, Dr Jordi Marqués, Dr Javier Molina, Dr Jorge Ortega, Dr Octavi Ortiz, Dr Bárbara Pàmies, Dr Andrés Pascual, Dr Silvia Pérez, Dr Manuel Piñera, Dr Cristina Porta, Dr Marc Quevedo, Dr Dani de Ribot, Dr Vanessa Ruiz, Dr Oscar Salomó, Dr Marta Satorres, , Dr Joan Soliva, Dr Oriol Torres, Dr Cristina Vallés, Dr Adaia Valls, Dr Juan Zanón.

Guest Faculty (online)

- Carlo Tinti (Italia)
- Andrea Tinti (Italia)
- Germán Barbieri (Coruña, España)
- Fernando Cebrián (Madrid, España)
- Paulo Carvalho (Portugal)
- Joao Fonseca (Portugal)

Guest Faculty (UIC)

- José Espona
- Jesús Muñoz Peñalver
- Lucas Queiroz

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Programme

The programme of the International Master's Degree in Oral Surgery is divided into three parts: theoretical, practical and research.

The theoretical programme is organised into cross-disciplinary subjects; oral and maxillofacial medical and surgical seminars, literature review sessions, clinical sessions, periodontal surgical seminars and invited lectures and sessions.

Theoretical programme

Oral Surgery and Maxillofacial Basics

Introduction to oral and maxillofacial surgical pathology.

Medical history in oral surgery.

Preoperative studies.

Local anaesthesia, sedation and general anaesthesia.

Disinfection and sterilisation.

Surgical field preparation.

Instruments and materials in oral surgery.

Postoperative care and medication.

Basic surgical technique: Incisions and flaps.

Dental Eruption Alterations: Complex Dental Extractions

Introduction to eruption alterations.

Third molar eruption pathology.

Canine eruption pathology.

Other dental inclusions.

Supernumerary teeth.

Complex dental extractions.

Dental extraction complications.

Infection Pathology

Focal infections.

Systemic infections: Local infections.

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Soft Tissue Pathology

Oral mucosa pathologies: Classification, diagnosis and treatment.

Soft tissue surgery.

Biopsy.

Buccal frenulum surgery.

Cyst and Tumour Pathology

Maxillary cysts: Classification, diagnosis and treatment.

Periapical surgery.

Benign tumours of the oral cavity.

Malignant tumours of the oral cavity.

Squamous carcinoma of the oral cavity and pharynx.

Oral surgery in the irradiated patient.

Endodontic Essentials

Pulp anatomy and physiopathology.

Endodontic treatment basics.

Endodontic treatment in necrotic teeth.

Endodontic treatment in periapical lesions.

Endodontic treatment planning. Case discussion.

Dental Implants

Introduction and principles of dental implants.

Dental implant surface, design and biomechanics, bone anatomy and histology.

Osseointegration: Image diagnosis in dental implantology.

Surgical technique in dental implants.

Oral pathology and dental implants in paediatric patients.

Guided surgery.

Guided bone regeneration.

Bone regeneration with extraoral autogenous grafts.

Dental implants and bisphosphonates.

Short implants.

Post extraction implants.

Maxillary sinus lift: Lateral and crestal approach, split crest technique in horizontal bone atrophy.

Dental implants in anatomic arbotants: Zygomatic implants and pterygoid implants.

Dental implant complications.

New paradigms in reconstructive and pre-prosthetic surgery.

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Salivary Glands Pathology, Buccofacial traumatology and cranio-facial development pathology.

Diagnostic and therapeutic basic concepts.

Practical Programme

Our learning model is based on ensuring our students can achieve a high academic level. Therefore, clinical practice with patients is essential to gain a high level of expertise. What makes our Postgraduate courses stand out is the Clinical Practice with Patients. Surgical Clinical Practice in the CUO (University Dental Clinic) Prosthodontic Clinical Practice in the CUO (University Dental Clinic) our prosthodontics laboratory, hospital practice, and placements in other Universities are other advantages we offer.

The practical programme includes activities in the Oral Surgery Department, Prosthodontics Department and Periodontics Department in the University Clinic, as well prosthodontic laboratory work on Monday afternoons. Finally, internships will take place in one medical centre outside the university, on Mondays and Tuesdays mornings and afternoons, during the first, second and third year of the master's degree. Due to the work UIC Barcelona undertakes with European and American universities, second and third year's students will have the opportunity to visit other departments in national and international universities.

Practical surgical activities in the university clinic will take place on Tuesdays, Wednesdays and Thursday afternoons, throughout the programme. Postgraduate students will perform all oral surgical treatments and surgical implant treatments under the supervision of a professor/lecturer. Initially, during the first year of the programme the student will assist second and third year's students. Later on, they will start performing easy surgical interventions, with help from a more experienced student and always under the supervision of a professor/lecturer. Depending on the individual evolutions of each student's learning curve, they will be allowed to treat more advanced cases or not.

Prosthodontic practice will be carried out on Friday mornings during the third year of the programme, for pre-surgical planning in all implant cases and this way students will achieve a good knowledge of prosthodontic rehabilitation in dental implant treatments.

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The prosthodontic laboratory: during the first year of the programme, students will go to the lab on Monday afternoons to learn the basic procedure for creating the implant retained denture.

Placements in other universities

During the second and third year of the programme, those students considered to be the best, based on strict criteria, will be offered a placement in the Oral Surgery Department of a national or international University.

Courses and conferences

Students must attend and present at least three papers. To do this, they will be able to choose out of the following conferences over the course of the 3-year master's programme: SECIB, SECOM, SEPA, SEPES.

During the Master's programme, students must also present a paper at one of the following international conferences: EAO, Europerio, EFOSS or SECOM .

Anaesthesia Seminar on Managing Patients with Special Needs

Organised by the Anaesthesia Department in the General Hospital of Catalonia. Dr Pilar Mula, a physician specialising in Anesthesiology and Recovery, will be responsible for this seminar that will take place during the session on Clinical Internships in Surgical Techniques, a basic Cardiopulmonary Resuscitation (CPR) seminar.

Dr Pilar Mula will take part as lead professor and will receive assistance from Clinical Internships in Surgical Techniques staff.

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).

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Nitrous Oxide Course

This programme offers an insight into nitrous oxide sedation dentistry methods and cardiopulmonary resuscitation. Clinical pharmacology medical gas concepts will be reviewed, as well as cardiopulmonary resuscitation practice, the use of defibrillators and conscious nitrous oxide sedation equipment management. The aim of this course on nitrous oxide is for students to take significant steps towards improving the quality of the treatment and to do so with confidence.

Learning results

- Surgical techniques for tooth extractions: roots, wisdom teeth, unerupted teeth.
- Diagnosis, planning and treatment of edentulism with dental implants.
- To become familiar with oral rehabilitation treatments with dental implants. To know how to do the diagnose and planning clinical cases from surgery to prosthetics.
- Pre-prosthetics and periodontics advanced surgery techniques.
- To know how to perform differential diagnosis of intraoral lesions.
- To know how to do biopsies in intraoral lesions.
- To learn how to do a differential diagnosis of X-ray images in conventional radiology, CT scans and cone beam CT scans.
- Treatment of maxillary cystic pathologies.
- Surgical treatment of periapical lesions.
- Frenulum surgical treatment (labial and lingual).
- Salivary lithiasis treatment in the Wharton conduct.
- Treatment and diagnosis of dentoalveolar fractures.
- To learn to present and debate clinical cases.
- To improve their public speaking skills.
- To know the steps in order to make a correct presentation of the doctoral thesis.
- To present a final master's degree project (FMDP).

To be eligible for a Master's Degree Qualification, students must pass the exam provided annually by the Academy of Osseointegration.

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Facilities

UIC Barcelona believes that clinical practice on patients is crucial for training high-level professionals. Last academic year, the Clinic received around 82,000 visits.

The UIC Barcelona University Dental Clinic has 88 dentistry booths, all of which are equipped with cutting-edge technology.

- 88 general booths, including
- 4 booths for special patient care
- 19 surgical booths
- Conscious sedation booths

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

Exclusive laboratory dedicated to CAD-CAM technology. The equipment available in this laboratory includes:

- Three milling machines: Lyra, Cerec, Roland
- One ceramic oven
- 13 intraoral scanners (four 3Shape; one 3M; one Omnicam Cerec; four Carestream; one Primescan; one Itero (loan); one Aadvia (loan); and one Medit scanner).
- One 3D printer

A variety of design programmes: nine exocad; ten 3shape and two Cerec; four Exoplan; one Simplant and one Implant Studio.

We have built **six new laboratories**, one of which is dedicated to dentistry research.

The pre-clinical laboratory, a technological laboratory, is fitted with **95 dental simulators** with phantom models, oral cavities simulation tools, and **X-ray and digital radiology equipment** for practising dentistry using the **Simudont virtual reality simulator**. This laboratory allows students to practice dentistry procedures under very real conditions before treating actual patients.

For complementary tests, all dental equipment is fitted with intraoral radiology. The centre has two diagnostic imaging rooms for taking panoramic dental X-rays with three CBCT/iCat machines.

Digital technology and implant-prosthetic planning programmes allow students to learn and work with the latest technologies from day one.

- Option to stream dentistry treatments and procedures live.
- Smart storage for delivering and collecting equipment.
- Sterilisation service for medical equipment and instruments.
- Dentistry management software to keep track of students' and patients' progress

The technology available to our students helps them gain awareness of the daily reality at a clinic and prepares them in all theoretical and practical aspects of working in the safest and most professional way.

All resources are up-to-date and the university has agreements with different industries in the sector, thus strengthening ties between industry, universities and RDI.

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Admissions process

Personal interview: The personal interview will be carried out with the coordinator, director and professors of the Master's degree. Academic merits will be valued, as will the ability to work in a team and professional experience.

Theoretical test: Theory test of multiple choice answers about oral and maxillofacial surgery.

English test: This involves reading a text in English and then summarising it. An oral exam (First Certificate level recommended).

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Material

In order to join the Master's course students must bring the following equipment with them:

1. General Instrumental:

- 1.1. SLR digital camera with flash override
- 1.2. Game of mirrors and contrastador (black background) for intraoral photography.
- 1.3. Laptop.
- 1.4. Safety glasses.
- 1.5. Optional: Magnification.
- 1.6. To access the CUO every student will be expected to wear a protective face screen and use total protection goggles, except if they are wearing prescription glasses or magnifying loupes, in which case the total protection glasses will not be necessary.

2. Surgical Instruments:

- 2.1. Scalpel handle No. 7 (16cm) for 10 to 15 sheets
- 2.2. Clips gillis (1 with teeth, 1 without teeth)
- 2.3. Adson Forceps (1 with teeth, 1 without teeth)
- 2.4. Separators Farabeuf
- 2.5. 1 Langenbeck separator
- 2.6. 1 Separator minesota
- 2.7. Abre bocas rubber wedges (medium and large)
- 2.8. Periosteal howard (one wide and one narrow)
- 2.9. Needle Holder 15cm tungsten tip
- 2.10. Mosquito Forceps (with teeth and toothless)
- 2.11. Curved Mayo scissors 1
- 2.12. 1 dissecting scissors 14cm Metzemaum
- 2.13. 1 legra two small sides
- 2.14. One middle two sides curette
- 2.15. 1 straight punch small
- 2.16. 1 straight punch medium
- 2.17. 1 set of winters pointy
- 2.18. 1 set of lifters pott
- 2.19. Field clamps 4
- 2.20. Allis forceps 1
- 2.21. 1 dental mirror
- 2.22. 1 syringe of anesthesia Uniject
- 2.23. 1 tongue depressor
- 2.24. 1 clamp gouge angled 15 cm

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2.25. 1 periodontal probe

2.26. Surgical cassette

3. Instrumental Prostheses:

3.1. Lecron.

3.2. Electric wax spatula.

3.3. Great appetizer.

3.4. Small appetizer.

3.5. 6 or more complete sets of natural teeth (incisors, canines, premolars and molar).

3.6. 3 Sets exploration: 2 mirrors, 1 clamp, 1 exploration and periodontal probe.

3.7. Hammer sacapuentes Antoghyr manually.

3.8. Cement spatula.

3.9. Spatula retraction cord, Brand ROEKO, Ref. 520 001.

3.10. Spatula composite.

3.11. Spatula wax.

3.12. Glass tile.

3.13. Alginate cup and spatula.

3.14. Cup and spatula plaster.

3.15. Cup of gum resin.

3.16. Caliper.

3.17. 2 Syringes of anesthesia (Uniject).

3.18. Pliers Angle.

3.19. 2 Mosquitos.

3.20. 1 Koher.

3.21. Straight scissors.

3.22. Miller clamp.

3.23. Semi-adjustable articulator mark ARTEX (Option to purchase at the UIC Barcelona).

3.24. Rotary Material: Turbine, adapter, handpiece, handpiece, micromotor, instrument box
(Hu - Friendly DIN IMDIN Ref. 13).

3.25. Modeling wax.

3.26. Metal thickness meter (Ninstrom).

3.27. Set for waxed PK (Pk 1, 2, 3, 4 and 5).

3.28. Cutter.

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Information and Admissions

Calendar

September 2021 to July 2024

Timetable*

First year:

Mondays from 10 a.m. to 2 p.m.

Tuesdays from 8.30 a.m. to 9 p.m.

Wednesdays from 8 a.m. to 9 p.m.

Thursdays from 8 a.m. to 9 p.m.

Fridays from 8 a.m. to 2 p.m.

Second year:

Mondays from 8.30 a.m. to 1.30 p.m.

Tuesdays from 10 a.m. to 9 p.m.

Wednesdays from 12 p.m. to 9 p.m.

Thursdays from 8 a.m. to 8 p.m.

Fridays from 8 a.m. to 2 p.m.

Third year:

Tuesdays from 10 a.m. to 2 p.m.

Wednesdays from 10 a.m. to 9 p.m.

Thursdays from 12 a.m. to 9 p.m.

Fridays from 8 a.m. to 8.30 p.m.

* These times may vary

Pre-registration date

From January 2021

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Price:

First year:

€27,774*

Second year:

€27,744*

Third year:

€23,838*

*Annual registration fees are included (€480/year). The annual registration fees have not yet been approved by the University's Board of Governors.

*The prices for second and third year (2022-2023 and 2023-2024) have not yet been approved by the University's Board of Governors and are subject to an index-linked increase.

*Programme pending final approval

Places available

The seats available are limited

Accreditation

180 ECTS International Master's Degree in Oral Surgery

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Documentation required for pre-registration

- Pre-enrolment form.
- A certified copy of the relevant undergraduate degree*.
- Transcript of grades (original or certified copy) *.
- Photocopy of National Identity Document (DNI) or passport.
- Receipt for payment of €90 by bank transfer**.
- Curriculum vitae with courses and conferences attended.
- Letter/s of recommendation.

*For students from outside the European Union, both the academic record and the degree certificate must be processed through diplomatic channels or bear The Hague Apostille. Candidates in the last year of their degree programme must provide a list of the qualifications they obtained before their registration date.

**Processing fees are non-refundable

Send to:

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Faculty of Dentistry
Universitat Internacional de Catalunya
Hospital General Building
C/ Josep Trueta, s/n
08195 Sant Cugat del Vallès (Barcelona)

Universitat Internacional de Catalunya
Faculty of Dentistry



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Bank details

The fees can be paid in the following bank account held by the Universitat Internacional de Catalunya, Fundació Privada. The student's name and program should be entered in payee details.

- Bank: BANCO SANTANDER
- IBAN code: ES63 0049 1806 9429 1189 8561
- SWIFT/BIC code: BSCHEMM
- Address: Passeig de Gràcia, 5, 4^a pl. - 08007 BARCELONA

Admission application form 2021-2022

Personal details

Name					
First Surname			Second Surname		
Date of Birth	/	/	Sex	Male	Female
E-mail			Mobile phone		
Address					
Country			City		
Postal Code			Nationality		
Country of Birth			Place of Birth		
NIF/NIE		Foreign ID*		Passport number	
Usual Language					
What language do you want to receive information in?			English	Spanish	

*Born outside of Spain or non-Spanish nationality

Master's Degrees / Postgraduate Degrees*

Másteres presenciales / On-Site Master's Degrees

Master's Degree in Periodontology
 European Master's Degree in Endodontics
 International Master's Degree in Oral Surgery (IMOS)
 Máster en Odontopediatría Integral y Hospitalaria
 Máster en Ortodoncia y Ortopedia Dentofacial
 Máster Universitario en Odontología Restauradora Estética
 Master's Degree in Advanced Aesthetic Restorative Dentistry
 Máster en Gerodontología, Pacientes especiales y con compromiso médico
 Double Master Degree in Periodontology and Prosthodontics

Postgrados / Postgraduate Degrees

RC en Periodoncia
 RC en Prótesis bucal
 RC en Implantología Oral
 RC en Ortodoncia
 RC en Odontopediatría
 RC en Técnicas Quirúrgicas Aplicadas a la Cavidad Oral
 Postgrado en Odontología Integrada Avanzada
 Postgrado Avanzado en Radiología Oral y Maxilofacial
 Postgrado en Creación y Gestión de la Clínica Dental
 Postgrado de Actualización en Odontología Europea

Másteres Online / Online Master's Degrees

Master's Degree in Endodontics Online
 University Master's Degree in Research in Dentistry
 Máster en Estética Dental Online
 Máster en Odontopediatría Integral y Hospitalaria Online

Academic information – Degree from the university of origin

University		Country			
Degree					
Type of degree	Graduate	University Master's degree holder	Master's degree holder	Other	
Year	/	/			

How did you find out about the UIC Barcelona (Spain)?

Word of mouth (through friends, school, ...)
 Visit to the university
 The website
 Fairs
 Advertising
 Other

Send to: infodonto@uic.es
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*Programmes pending final approval