

**COURSE DATA****DATA SUBJECT**

Code: 34497
Name: Maxillofacial plastic surgery
Cycle: Undergraduate Studies
ECTS Credits: 4.5
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1204 - Degree in Medicine	Facultat de Medicina i Odontologia	4	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1204 - Degree in Medicine	Optional subjects	ELECTIVES

COORDINATION

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SUMMARY

Maxillofacial Surgery is the medical-surgical specialty that deals with the prevention, study, diagnosis, treatment and rehabilitation of the pathology of the oral cavity and the face, as well as cervical structures, directly or indirectly related to them.

Plastic Surgery is the specialty that deals with the surgical correction of any congenital, acquired, tumoral or simply involutive process, that requires repair or replacement of surface structures that affect body form and function, being its techniques based on transplantation and tissue mobilization.

The subject aims to offer a more in-depth view of the indicated specialties regarding the knowledge acquired in previous years, so that the student can know, and, where appropriate, plan, the diagnosis and treatment of the most relevant pathologies in both Specialties. This vision will be offered in its broadest sense without going to delve into the controversies of each one.

PREVIOUS KNOWLEDGE



RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

It is highly recommended to have approved the main subject of 3rd year: Surgical Diagnostic and Therapeutic Procedures.

COMPETENCES / LEARNING OUTCOMES

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Acknowledge diversity and multiculturality.

Capacity for communicating with professional circles from other domains.

Consideration of ethics as a fundamental value in the professional practise.

Criticism and self-criticism skills.

Proper organisation and planning of the workload and timing in professional activities.

Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.

Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.

Team-working skills and engaging with other people in the same line of work or different.

Understand the foundations of action, indications and efficacy of therapeutic interventions, based on available scientific evidence.

Working capacity to function in an international context.

DESCRIPTION OF CONTENTS

1. Plastic surgery. Definition and history. Plastic surgery and cosmetic surgery. Pathological scarring. Substance losses: closure by second intent vs. hedges.

Coverages I: skin grafts. Others Grafts.

2. Coverages II: vascular territories. Flaps: concept and types.

3. Coverages III: pressure ulcers (UPP).

4. Microsurgery. Basic principles. Planning. Indications.

5. Tissue expansion. Basic principles. Planning. Indications.



1. 1. Basic topics of plastic surgery.

1. Plastic surgery. Definition and history. Plastic surgery and cosmetic surgery. Pathological scarring. Substance losses: closure by second intent vs. hedges. Coverages I: skin grafts. Others Grafts.
2. Coverages II: vascular territories. Flaps: concept and types.
6. Breast reconstruction. Basic principles. Planning. Indications.
7. Burns.
8. Sex reassignment surgery.

2. Basic themes of maxillofacial surgery.

9. Cystic pathology of the jaws. Epithelial cysts. Non-epithelial cysts. Treatment.
10. Conservative treatment of retained teeth.
11. Periapical surgical treatment.
12. Dental restoration. Dental implantology.
13. Jaws tumors.
14. Chronic dental and non-dental cervical infections. Osteomyelitis. Osteonecrosis.
15. Congenital cervico-facial pathology.
16. Maxillofacial traumatology. Middle and upper third fractures. Panfacial fractures. Gunshot wounds.
17. Reconstructive facial surgery.

3. 3. Practical teaching thematic area PLASTIC AND MAXILLOFACIAL SURGERY

4. Seminars

The seminars will take place in a seminar room, with the active and dynamic participation of the student, and where the teacher acts as an introducer and moderator of thematic discussions proposed by the students themselves.

1. Seminar on clinical cases of Reconstructive Surgery. Non-microsurgical coverage
2. Seminar on microsurgery clinical cases. Reimplantation.
3. Seminar on clinical cases of burns.
4. Seminar on clinical cases of breast reconstruction.
5. Medical students forum. Clinical cases of Aesthetic Surgery.
6. Seminar on oral surgery: teeth included. Concept. Complications.
7. Surgical treatment. Oral cancer and its ways of spread. Treatment. Adjuvant treatment.
8. Seminar on temporomandibular joint: pathophysiology of chewing and dental occlusion. Surgical treatment of TMJ.
9. Seminar on salivary glands: pathophysiology of the salivary glands. Non-tumour and tumour pathology. Treatment.
10. Seminar on facial function and aesthetics: surgery for dentofacial deformities.
11. Seminar on clinical cases (I) in Maxillofacial Surgery.
12. Seminar on clinical cases (II) in Maxillofacial Surgery.



WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	19,00
Seminar	26,00
Total hours	45,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	0,00
Independent study and work	39,00
Preparation of lessons	22,00
Preparation for assessment activities	2,50
Resolution of case studies	4,00
Total hours	67,50

TEACHING METHODOLOGY

THEORETICAL CONTENT :

The syllabus is intrinsically divided into three elementary, or basic, parts that allow us to approach the knowledge of the specialty:

Generalities, Reconstructive Plastic Surgery and Aesthetic Plastic Surgery.

Generalities, Oral Surgery and Maxillofacial Surgery.

PRACTICAL CONTENT:

The practical content necessarily requires the possibility of developing instrumental workshops and/or bringing students closer to a surgical area.

SEMINARS CONTENT:

The theoretical topics are supported by an element of awareness and discussion, which would be the seminars and are developed with active participation of the student and where the teacher acts as introducer and moderator of thematic discussions proposed by the students themselves. The seminar can, and should, be based on the practical content viewed and/or carried out by the student during the internship.

All information will be provided to the student through the virtual classroom through files, articles and audiovisual support of the classes, so that they can prepare for them in advance.

An interactive test will also be available in the virtual classroom, in the questionnaires section, so that the student can continue demonstrating and learning concepts in the maxillofacial territory.



Individualized tutorials that will be carried out in person or online through the mechanisms offered by the Virtual Classroom of the University of Valencia.

The gender perspective, the respect for diversity, and the sustainable development goals (SDGs) will be incorporated into teaching, whenever possible.

EVALUATION

- Theoretical evaluation: 50% of the final rating

Through 50 multiple-choice questions. They will cover both the theoretical lessons and the theoretical part of questions will have 4 possible answers of which just one will be the correct answer. A wrong response penalizes points from the result. Questions that remain unanswered do not add nor subtract. The minimum result to be obtained in the theory assessment and add it to the practical evaluation is 5 out of 10.

- Practical evaluation: 50% of the final rating

Attendance to practical activities is mandatory. It will be monitored through a sign-in form or through different apps used to actively participate in real time during the classes by answering questions. The student will be considered to have met the requirement once he has attended at least the 80% of these activities. Moreover, the student will have to justify attending the remaining 20% of the sessions due to force majeure.

Without this requirement met, the student will be able to take the exam of the first call, but will not be able to pass the exam if the exam is passed, the results will be saved for the second call. After the written exam of second call, every student who has passed the theory but does not meet the attendance requirements to the seminars must undergo an oral exam on the content of the seminars.

Attendance at practical activities is mandatory. The student is considered to meet this requirement if he or she has attended a minimum of 80% of these activities and has adequately justified the impossibility of attending the remaining 20% due to the occurrence of a cause of force majeure. It will be essential to comply with this requirement to pass the subject.

Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree.

REFERENCES



- En cirugía plástica
 - McGregor A, McGregor A, McGregor I. Fundamental techniques of plastic surgery. 10th ed. Churchill Livingstone; 2000.
- En maxilofacial:
 - NETTER. ANATOMÍA DE CABEZA Y CUELLO PARA ODONTÓLOGOS". Neil S. Norton. 2007. Ed. Elsevier Masson. ISBN:844581785X.
 - "TRATADO DE CIRUGÍA ORAL Y MAXILOFACIAL", 3 Vol. Navarro Vila, Carlos. Ed. Aran. 2009. ISBN: 84.95913.33"
 - "ATLAS DE CIRUGÍA ORAL". H. SAILER. 1999. Ed. Masson. ISBN: 9788445804940.
 - "ORAL AND MAXILLOFACIAL DISEASES". Scully C, JV. Bagán. 2010. ISBN: 9780415414944
- Recursos e-Salut:
 - ClinicalKey Student Medicina, Odontología y Enfermería [<https://uv-es.libguides.com/RecursosSalut>]
 - Acces Medicina [https://uv-es.libguides.com/Access_Medicina]
 - Médica Panamericana [https://uv-es.libguides.com/Medica_Panamericana]
- CIRUGÍA PLÁSTICA:
 - Thorne CH, editor-in-chief. Grabb and Smiths plastic surgery. 7th ed. Lippincott Williams &Wilkins, a WoltersKluwer business; 2014.
 - Nelligan PC, editor-in-chief. Plastic surgery: 6-volume set. 4th ed. Elsevier; 2017.
 - Wei F, Mardini S, editors. Flaps and reconstructive surgery. 2nd ed. Elsevier; 2016
- CIRUGÍA MAXILOFACIAL:
 - Cirugía oral y maxilofacial contemporánea. 6th Edition. Authors: James Hupp Edward Ellis Myron Tucker. Editorial Elsevier. 2014. eBook ISBN: 9788490225967. Hardcover ISBN: 9788490224984
 - "Head and neck surgery and oncology". Jatin Shah. 2012. Ed. Elsevier Mosby. ISBN: 9780323055895.