CEU
Universidad
San Pablo

Course Description

HEAD AND NECK ANATOMY

COURSE 2ND; SEMESTER 2ND

***DEGREE:* DENTISTRY**

ACADEMIC YEAR 2022/2023

FACULTY OF MEDICINE

1. COURSE IDENTIFICATION

1.-COURSE:

Title: Head and Neck Anatomy		
Code: 19698		
Year (s) in which the course is taught: 2nd	Semester (s) when the course is taught: 2nd	
Type: Mandatory	ECTS of the course: 3	Hours ECTS: (15)
Language: English	Modality: in person classes	
School which the course is taught: Dentistry		

2.- ORGANIZATION OF THE COURSE:

Departament: Dentistry
Subject: Stomatology

2. LECTURERS OF THE COURSE/SUBJECT

1.-LECTURERS:

Responsible of the course	CONTACT
Name:	Ignacio de Lucas González
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Lecturer (s)	CONTACT
Name:	Díaz Lanciego, Ángel Manuel
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Lecturer (s)	CONTACT
Name:	María José López-Silva García
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Lecturer (s)	CONTACT
Name:	Ester Jiménez Martínez
Phone (ext):	913724700 ext 4839
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Lecturer (s)	CONTACT
Name:	Sandra Martínez González
Phone (ext):	913724700 ext 4839
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Office:	Despacho 204 edif D

2.- TUTORIALS:

For all queries related to the subject, students can contact the teacher(s) by e-mail, telephone and in the office at the tutoring hours that will be made public on the student portal.

3. COURSE DESCRIPTION

Head and Neck Anatomy is a compulsory subject that belongs to the Dental Pathology and Therapeutics module. It is taught in the second year of the Dentistry degree and has 3 ECTS credits with a theoretical-practical nature. This subject establishes an important relationship with subjects from the previous year, specifically with Human Anatomy. Head and Neck Anatomy involves in-depth learning of the morphology applied to this anatomical region. In it, students will acquire knowledge of the different anatomical structures of the maxillofacial massif in a descriptive, relational and functional way, emphasizing the anatomical components related to the masticatory apparatus.

4. COMPETENCES

1.- COMPETENCES:

Code	Basic and General Skills
CB.1	That students have demonstrated possession and understanding of knowledge in an area of study that starts from the base of general secondary education, and is usually found at a level that, although supported by advanced textbooks, also includes some aspects that imply knowledge coming from the forefront of their field of study.
CG.20-20.	Promote autonomous learning of new knowledge and techniques, as well as motivation for quality
CB.2	That students know how to apply their knowledge to their job or vacation in a professional way and possess the skills that are usually demonstrated through the elaboration and defense of arguments and problem solving within their area of study.
CG.21-21.	Understand the basic biomedical sciences on which Dentistry is based to ensure correct oral and dental care.

CG.22-22.	Understand and recognize the structure and function of the stomatognathic apparatus, at a structural, tissue and organic level, in the different stages of life.
CG.23-23.	Develop the ability to gather and interpret relevant data to make judgments that include a reflection on the area of interest.
CB.5	That students have developed those learning skills necessary to undertake further studies with a high degree of autonomy.

Code	Transversal Skills

Code	Specific Skills
CE.34 -	Know the biomedical sciences on which Dentistry is based. These should include content related to embryology, anatomy, histology and physiology of the human body; genetics, biochemistry, cell and molecular biology, microbiology and immunology.
CE35.1 -	Integrate and relate the different biomedical sciences involved in the study of Dentistry.
CE35.2 -	Know the morphology and function of the stomatognathic apparatus, including specific contents of specific embryology, anatomy and physiology.

2.- LEARNING OUTCOMES:

Learning outcomes-
Know the basic concepts in anatomy: anatomical position, axes, planes and reference points. Know, understand and apply the anatomical bases to understand the function of the stomatognathic apparatus in normal conditions, and thus be able to understand the deviations that occur in the disease. Know and understand the basic processes during the embryonic development of the anatomical areas of the head and neck. Identify and relate the anatomical structures as the basis of knowledge to integrate the different devices and systems. Relate the knowledge acquired with other disciplines such as histology and physiology.

5. LEARNING ACTIVITIES

1.- DISTRIBUTION OF STUDENTS` ASSIGNMENT:

Total hours of the course	26

Code	Name	In-class teaching
	Theoretical classes	14
	Practical classes	12
TOTAL Hours		26

Code	Name	Not on-campus hours
	Independent Work	78

2.- LEARNING ACTIVITIES

Learning Activities	DEFINITION
Master class	The teacher will expose certain introductory aspects to the different theoretical blocks of the subject, as well as their integration, according to the subject program. Teaching support materials will be used (documents that will be distributed in class and digitized that will be disseminated through the student portal).
Seminars	The teacher exposes the topics corresponding to the program. Seminars will be taught following the subject program, developing the knowledge raised in the master classes, with the active participation of the students. Teaching support materials will be used (documents that will be distributed in class and digitized that will be disseminated through the student portal).
Academic tutorials	Academic tutorials will be carried out preferably aimed at knowledge acquisition skills, learning skills acquisition skills and knowledge communication skills. The instructions of the work that the student must carry out will be reinforced and also, at the request of the student, all the difficulties that may arise in the learning process will be addressed.
Practices	The practical classes will take place both in classrooms and in laboratories, in the latter case in sessions of 2 hours per day. Once the corresponding Practice Shift has been assigned, no change will be allowed except for just cause. In addition, clinical practices will be carried out for the observation in patients of the therapeutic methods referred to in the subject.

6. ASSESMENT OF LEARNING

1.- CLASS ATTENDANCE:

• In order to benefit from the continuous evaluation system, attendance at 75% of the theory classes is required (attendance controls will be carried out). Since the student may miss 25% of the total number of classes, excuses for absence will not be accepted.
• Attendance at practical classes is 100% compulsory.

2.- ASSESMENT METHOD AND CRITERIA:

ORDINARY ASSESMENT (Continual Assessment)

ASSESSMENT SYSTEM

Code	Name	Percentage
	Attendance at theoretical classes (> 75%), participation in seminars, research and presentation of papers	5%
	Practical activity (laboratory, workshop, final practical exam)	15%

	Theoretical Exam	80%
	FINAL GRADE OF THE SUBJECT	100%

3.- ASSESMENT METHOD DESCRIPTION:

ORDINARY ASSESSMENT (Continual Assessment):
This call will be both practical and theoretical. Passing each part separately, test and short questions, obtaining a grade of at least 5 in the test, considering that every 3 wrong questions subtract one correct, and 5 in the development questions.
EXTRAORDINARY ASSESSMENT (Final Assessment):
The student who does not pass the subject in the ordinary call, must take the final exam of the extraordinary call with all the matter.
In the qualification of the extraordinary call, the percentages established in the ordinary call will not be applied, and it will be that of the extraordinary, theoretical and practical exam, Passing each part separately, test and short questions, must obtain a grade of at least 5 in the test, considering that every 3 wrong questions subtract one correct, and 5 in the development questions, as well as those that must be examined in the practical, taking into account that the mark obtained must be greater than or equal to five points out of ten.

7. COURSE SYLLABUS

1.- COURSE SYLLABUS

THEORETICAL PROGRAM:

Topic 1: Embryonic development of the head and neck. Skull development. Skull of the newborn.

Topic 2: Osteology I. Bones of the skull. Frontal, ethmoid, sphenoid, temporal, occipital, parietal. Internal and external configuration of the skull.
Topic 3: Osteology II. Bones of the face. Maxillary, lacrimal, palatine, turbinates, nasal bones, zygomatic, mandible. cavities of the face Temporo-mandibular joint. Functional anatomy of the skull.

Topic 4: Dental anatomy. Morphology of the different dental groups. Maxillary and mandibular incisors, canines, premolars and molars.

Topic 5: Myology I. Facial and masticatory muscles. Temporal, masseter, lateral and medial pterygoid. musculature of mimicry. Actions.

Topic 6: Myology II. Muscles of the anterior and posterior region of the neck. Anterior neck region. Posterior region of the neck. Actions.

Topic 7: Vascularization I. Arteries of the head and neck. Common carotid. External and internal carotid. terminal branches.

Topic 8: Vascularization II. Veins and lymphatics of the head and neck. Internal and external jugular. terminal branches. Distribution of the lymphatic vessels of the head and neck.

Topic 9: Nerves I. Cranial nerves. Origin and distribution.

Topic 10: Nerves II. Trigeminal nerve (V pair) and facial (VII). Origin, distribution and terminal branches.

Topic 11: Oral Cavity. Functional anatomy. Language. Salivary glands.

Topic 12: Digestive and respiratory system. Study of the oropharynx and larynx.

Topic 13: Topographic anatomy I. Skull and face. Region, epicranial, temporal, mastoid. Oral, mental, jugal, masseteric, infratemporal and palatal region. Pharynx and peripharyngeal space. Floor of the mouth. Lingual, sublingual and suprahyoid region.

Topic 14: Topographic anatomy II. Neck. Infrahyoid region, sternocleidomastoid, lateral and posterior cervical.

INTERNSHIP PROGRAM:

- Practice 1: OSTEOLOGY AND MYOLOGY.
- Practice 2: VASCULARIZATION AND NERVES
- Practice 3: DENTAL ANATOMY
- Practice 4: 3D VIRTUAL DISSECTION
- Practice 5: DISSECTION ON CORPSE
- Practice 6: REVIEW AND EXAM

8. BIBLIOGRAPHY

1.- ESSENTIAL BIBLIOGRAPHY:

Rouviere Delmas. Anatomía Humana. 11o. Ed. Elsevier Barcelona 2011.
- Drake, R.L., Vogl, W. y Mitchell, A.W.M. Gray. Anatomía para Estudiantes. 4a ed. Elsevier. Barcelona, 2020.
- Pró, E. Anatomía Clínica. 2a ed. Editorial Médica Panamericana. Buenos Aires, Madrid, 2014.
Schünke, M., Schulte, E. y Schumacher, U. Prometheus. Texto y Atlas de Anatomía. 3 vols. 3a ed. Editorial Médica Panamericana. Buenos Aires, Madrid, 2014.
- Netter.Anatomía de cabeza y cuello para odontólogos: , 3ed. Elsevier, 2017
- Netter, F.H. Atlas de Anatomía Humana. 7a ed. Elsevier Masson. Barcelona, 2019

2.- ADDITIONAL BIBLIOGRAPHY:

- Atlas de anatomía Máster EVO5 5aed. Marban. Madrid 2012
- Dauber, W. Feneis. Nomenclatura Anatómica Ilustrada. 5a ed. Elsevier Masson. Barcelona, 2007. -
Larsen, W.J. Embriología Humana. 3a ed. Elsevier. Madrid, 2002.
- Moore, K.L., Dalley, A.F. II y Agur, A.M.R. Anatomía. Con orientación clínica. 8a ed. Editorial Wolters-Kluwer, L'Hospitalet de Llobregat, 2018.
- Neuroanatomia. Texto y Atlas en color. Crossman. Ed. Churchill and Livingston
- Feneis, H. y W. Dauber. Nomenclatura Anatómica Ilustrada. 11a ed. Elsevier Masson, Barcelona, 2021.
- Kahle, W. y M. Frotscher. Atlas de Anatomía. Con correlación clínica. Tomo 3: Sistema nervioso y órganos de los sentidos. 11a ed. Editorial Médica Panamericana. Madrid, 2017.
- Paulsen F. y Waschke J. SOBOTTA. Atlas de anatomía humana. Anatomía general y aparato locomotor". Tomo I, 24a edición, Editorial Elsevier. Barcelona, 2018.
- Purves, D., G.J. Augustine, D. Fitzpatrick, W.C. Hall, A.-S. LaMantia, y L.E. White. Neurociencia, 5a ed. Editorial Médica Panamericana. Madrid, 2016.

3.- WEB RESOURCES:

Medline
Pubmed
Primal Atlas

http://www.anatomy.org http://embryo.soad.umich.edu/index.html
http://virtualhumanembryo.lsuhsc.edu/ http://www.bibliotecaceu.es/ http://www.brainmaps.org
http://www.msu.edu/rbrains http://www.teachmeanatomy.info http://www.thehumanbrain.info

https://openstax.org/details/anatomy-and-physiology

9. ATTITUDE IN THE CLASSROOM

1.- GUIDELINES

The lack of Academic Integrity (absence of citation of sources, plagiarism of works or improper/prohibited use of information during exams), as well as signing the attendance sheet by a classmate who is not in class, will imply the loss of the continuous evaluation, without prejudice to the sanctioning actions that are established.

The use of electronic devices is not allowed during classes, both theoretical and practical

Likewise, the use of the documentation provided by the teacher through the student portal (presentations, questions, exercises, seminars, practice notebooks, etc.) is restricted to the preparation of the subject. The teacher(s) reserve the right to make use of the measures included in the current legislation on Intellectual Property, in cases in which an unauthorized use and/or disclosure of said material is detected.

10. EXTRAORDINARY MEASURES

Should an exceptional situation occur which prevents continuing with face-to-face teaching under the conditions previously established to this end, the University will take appropriate decisions and adopt the necessary measures to guarantee the acquisition of skills and attainment of learning outcomes as established in this Course Unit Guide. This will be done in accordance with the teaching coordination mechanisms included in the Internal Quality Assurance System of each degree.