

**COURSE DATA****Data Subject**

Code	35272
Name	Anatomy of Language and Hearing Organs
Cycle	Grade
ECTS Credits	6.0
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. year	Period
1203 - Degree in Speech Therapy	Faculty of Psychology and Speech Therapy	1	First term

Subject-matter

Degree	Subject-matter	Character
1203 - Degree in Speech Therapy	1 - Human anatomy	Basic Training

Coordination

Name	Department
CERVERA FERRI, ANA PILAR	17 - Human Anatomy and Embryology

SUMMARY

The topic "Anatomy of the organs of speech and hearing" is basic training and is therefore located in the first year and four months of teaching degree. His character is descriptive and functional at the same time teaches the fundamental and appropriate terminology of anatomical structures. Its size is 6 ECTS credits, 4.5 of which are theoretical teaching and practical and laboratory 1,5.

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 recommended that the student possesses basic knowledge of biology and sufficient knowledge of vocabulary to understand biological concepts and conceptual terminology of anatomical structures and the evolution of language from animals to humans.

This subject is closely related to Physiology, Neuroscience and Neuropsychology of the first course and clinical subjects related to otolaryngology and nervous system.

OUTCOMES

1203 - Degree in Speech Therapy

- Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.
- Use the exploration techniques and instruments typical of the profession and record, synthesize and interpret the data provided by integrating them into the information set.
- Work in the school, healthcare and healthcare settings as part of the professional team. Advice on the development, implementation of care and education policies on topics related to speech therapy.
- Be able to develop skills such as regulating their own learning, solving problems, reasoning critically and adapting to new situations.
- Manage the technologies of communication and information.
- Know the anatomy of the organs of speech, hearing and voice.

LEARNING OUTCOMES

- To have an overview of the anatomical organization of the human body
- Understand the anatomy of the organs of hearing, as well as the basic organization of the nervous system and specifically those involved in the processing of vision, hearing and language. Understand the importance of vascularity.
- Be able to describe the basic anatomy of the skull and the specific anatomy of the oral and nasal cavities, the larynx and the muscles involved in the emission and nuance of the sounds of language and facial expression.
- Understand the organization of the systems involved in breathing and in the muscles of the trunk
- Know the anatomical and biomechanical structure of the upper limb
- Be able to identify the studied structures in models, anatomical preparations or anatomical and medical images.



DESCRIPTION OF CONTENTS

1. Introduction

Organization of the human body. Levels of organization. Anatomical position. Plans and sections of the body. Basic terminology.

2. Early stages of embryonic development and development of the head and organs.

In this block the student will know the basis of embryonic development, the endogenous and exogenous causes that may alter this development and what stage and develop as the head, nervous system and senses related to language in order to understand why the genetic and embryonic pathologies that produce functional deficiencies.

3. Basic anatomy of the skull and specific oral and nasal cavities.

Here the student will know the morphology of the skull and its cavities, especially those that are related to speech and hearing.

4. Phono-articulatory apparatus.

In this block the student will know the structural and functional morphology of the larynx and pathways and muscles related to the issuance and qualification of sounds and breathing.

5.

6.

7.

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**10. Cortical and peripheral nerve structures to capture sounds and sound emission and therefore language**

Students will understand, analyze, relate and apply knowledge of the structures studied with the central nervous system that enable both language comprehension and motor peripheral joint structures capable of communicating with other people.

11. Learning by identification of structures in models and anatomical models

In this block, which is practical and laboratory, students will know and analyze through models and the different structures of anatomical preparations that go traipsing through lectures.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	45,00	100
Laboratory practices	15,00	100
Study and independent work	45,00	0
Preparation of evaluation activities	30,00	0
Preparing lectures	15,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

Development of the theoretical program with the instructor-Board and supported by images. Face-to-face practical classes with identification of structures in models and preparations and anatomical images.

Tasks with no face search and identification tasks sheet structures, preparation of papers and reports of practical classes.

In addition, students will spend time studying, preparing and carrying out the evaluation of the subject, since the completion of scheduled tutoring individual or group.

EVALUATION

In order to pass the subject, students must pass both theoretical and practical content assessment. It is essential to approve each of the parts separately to make an average of the final grade.

Evaluation of the theoretical content: The value of the theoretical test corresponds to a 60% of the final grades. This test will consist of an exam with 20 multiple choice questions and 10 short answer questions. It is necessary that the student obtain a minimum score of 4 points out of 10 in each of the parts of the theoretical exam in order to calculate the average grade. To pass this part, the student must obtain a minimum score of five points between the two parts. This section is recoverable on second call.



Evaluation of the practical content: The value of the of the practical part corresponds to a 40% of the final grades. The evaluation of the practices will consist of two parts. On the one hand, an objective test of each practice will be carried out through a virtual platform. Students will have at their disposal the test during the week after the realization of the face-to-face practice. This part of the practical evaluation will suppose a 50% of the practice grades (20% of the note of the subject), and it is NOT recoverable on second call. On the other hand, an examination of the practical content consisting of 10 questions of structure identification by images will be carried out, it suppose a 50% of the practice grades (20% of the note of the subject). This section is recoverable in second call. To pass this part, the student must obtain a minimum score of five points in eacho of the the two parts of the evaluation of the practical content.

Practice classes attendance: Attendance to practices is mandatory. The unjustified absence to more than 20% of the practices will suppose the impossibility to perform the practical examination of the subject.

REFERENCES

Basic

- Gray (2020) Anatomía para estudiantes. Editorial Elsevier.
- Langman (2007) Embriología médica con orientación clínica. Edit. Panamericana.
- H. Lippert (2013) Anatomía con orientación clínica para estudiantes. Edit. Marbán.
- FH. Netter (2019). Atlas de Anatomía humana (4ª edición) Edit.Elsevier/Masson.
- S. Rodriguez; JM, Smith (1998) Anatomía de los órganos del lenguaje, visión y audición. Edit.Panamericana.
- Feneis (2021) Nomenclatura anatómica ilustrada. Editorial Masson.

Additional

- Young, PA; Young, PH (1998) Neuroanatomía clínica funcional.Masson/Williams

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

As a result of COVID-19 and in accordance with the guidelines approved by the CG of July 1, 2020, teaching and evaluation are adapted to a hybrid model and with the possibility of opting for a completely non-face-to-face model if the circumstances so what is required.

1. CONTENTS



There are no modifications regarding the contents that appear in the teaching guide of the subject.

2. VOLUME OF WORK AND TEMPORARY PLANNING OF TEACHING

The volume of work that appears in the teaching guide of the subject is maintained. 100% of the theoretical classes (45 hours) will take place virtually. 100% of the practical classes (15 hours) will be carried out in person¹.

¹In case the sanitary circumstances require it, the practices will be by e-Learning (0% presentiality). In case it is possible to develop the course normally, the presentiality in the practices will tend to 100%.

3. TEACHING METHODOLOGY

The course will follow a hybrid model of blended teaching.

The **theoretical** classes, in accordance with the provisions for the entire degree, will be taught by distance education. The materials will be made available to the students through the Virtual Classroom, with guidelines for autonomous study and the teaching staff will be available to be consulted through the virtual channels deemed appropriate (virtual classroom, email, videoconference ...), both during the hours assigned to theoretical teaching and during their tutoring hours. Theoretical classes will be taught synchronously in accordance with the class schedule established by the faculty.

The **practical** classes, in case the course can be developed normally, will be face-to-face, whenever possible, maintaining the security / protection conditions that are mandatory. In the event that sanitary conditions so require, practical teaching will become e-Learning, taught using materials designed for distance education (virtual atlases, videos, silent images ...).

The **tutorials** with the teacher will be carried out through the institutional email of the Universitat de València. If convenient, tutorials may be held by videoconference in the Virtual Classroom environment.

4. EVALUATION

The evaluation of the **theoretical** content will mean 60% of the total grade for the course, and will include:



a) The assessment of the activities of continuous evaluation of the theoretical content, which may include questionnaires and work that will be carried out in a non-presential mode (20% of the final mark).

b) The assessment of a final test of the theoretical content, which will consist of a questionnaire of 30 test questions and 10 short-answer questions, which will be carried out in person or virtually depending on health conditions (40% of the final mark).

The evaluation of the **practical** content will consist of the identification of anatomical structures and will represent 40% of the total grade for the course, which will be obtained by:

c) the evaluation of the activities of continuous evaluation of the practical content, carried out online after each practice (20% of the final mark).

d) the evaluation of a final test of the practical content, which will consist of a questionnaire of 10 questions to identify anatomical structures (20% of the final mark)..

In both cases, the practical tests will be in person or virtual depending on sanitary conditions.

Attendance at practices will be mandatory if sanitary conditions do not prevent it. The unjustified absence of more than 20% of the practices will mean the impossibility of taking the exam for the subject.

To pass the subject in first call, it will be necessary to obtain at least a 5/10 in the global theory and practice mark, as well as in both the theoretical and practical final exams. Continuous assessment tests do not have a minimum required, so it will be approved only if they are offset by averaging with the other parts and are NOT RECOVERABLE.

In the second call, the marks obtained in the continuous evaluation will be kept. Likewise, the note of the parts approved during the first call for the second call of the same academic year may be saved.

The final test of the theoretical content and the final test of the practical content may be recovered in the second call by means of tests similar to those used to evaluate them in the first call. As in the first call, to pass the course it will be necessary to obtain at least a 5/10 in each of them and in the overall theoretical and practical part.

The teaching staff will use the plagiarism detection systems contracted by the UV in the evaluation evidences. The manifest “copy” of any test, task, activity or report, whether individual or group, that serves the purpose of evaluation in the subject, will make it impossible to pass the subject.

5. BIBLIOGRAPHY

To what already exists in the Teaching Guide, it is added:

The UV Library Service offers students access to online manuals. In addition, a compilation of available online materials will be included in the Aula Virtual platform.