1. BASIC INFORMATION

Course	Anatomy and Physiology of the Human Body II
Degree program	Dentistry
School	Faculty of Biomedical and Health Sciences
Year	First year
ECTS	6 ECTS
Credit type	Basic
Language(s)	Spanish and English
Delivery mode	Face-to-face
Semester	Second semester
Academic year	2024/2025
Coordinating professor	Alicia María Hidalgo Estévez

2. PRESENTATION

Anatomy and Physiology are the basic tools of learning and knowledge of the structure and function of the human body. They are subjects that serve as support for any degree of sanitary nature such as Dentistry. In this second part (Anatomy and Physiology of the Human Body II) the student will acquire essential knowledge of the Anatomy and Physiology of the main systems of the human body (Cardiovascular, Respiratory, Digestive, Urinary, Endocrine, and Reproductive systems), based on the knowledge acquired in this area in the first part of the subject (Anatomy and Physiology of the Human Body I).

3. COMPETENCIES AND LEARNING OUTCOMES

Core competencies:

- CB1: students must demonstrate to possess knowledge in an area of study arising from general secondary education, which is usually supported by advanced textbooks, and also includes knowledge coming from the vanguard of this field of study.
- CB3: students will develop the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social,

  scientific or ethical issues.

- CB5: students will develop those learning skills necessary to undertake further studies with a high degree of autonomy.

Cross-curricular competencies:

- CT1: Autonomous learning: Process that allows the person to be the author of their own development, choosing the paths, the strategies, the tools and the moments that they consider most effective to learn and independently implement what they have learned. The autonomous student, in short, selects the best strategies to achieve their learning objectives.
- CT6: Oral communication / Written communication: Communication is the process by which we transmit and receive data, ideas, opinions and attitudes to achieve comprehension and action, oral being that is done through words and gestures, and written, through writing and / or graphic supports.
- CT12: Critical reasoning: Ability to analyze an idea, phenomenon or situation from different perspectives and assume a personal approach, built from the rigor and objectivity argued, and not from intuition.

Specific competencies:

- CE1. Know the biomedical sciences on which Dentistry is based to ensure correct oral-dental care. Among these sciences appropriate contents of Embryology, Anatomy, Histology, and Physiology of the human body have to be included.

Learning outcomes:

- Global vision and knowledge of the physiology of the main systems in the human body.
- Integration among systems.
- It complements the knowledge acquired in this area in the first part of the subject (Anatomy and Physiology of the Human Body I).
- Ability to apply the acquired knowledge to the profesional life.

The following table shows the relationship between the competencies developed during the course and the learning outcomes pursued:

Competencies	Learning outcomes
CB1, CT1, CT6, CE1	Global vision and knowledge of the physiology of the main systems in the human body.
CB3, CT1, CT6, CT12	Integration among systems.
CT1 CE1	It complements the knowledge acquired in this area in the first part of the subject (Anatomy and Physiology of the Human Body I).
CB5, CT1	Ability to apply the acquired knowledge to the professional life.

4. CONTENT

1. THE CARDIOVASCULAR SYSTEM.

2. RESPIRATORY SYSTEM.

3. DIGESTIVE SYSTEM.

4. URINARY SYSTEM.

5. ENDOCRINE SYSTEM.

6. REPRODUCTIVE SYSTEM.

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Lectures.
- Practical activities.
- Laboratory practical work.
- Integrated activities.
- Online tests.
- Problem-based learning.
- Autonomous work activities.
- Digital block.

6. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Learning activity	Number of hours
Lectures	42
Asynchronous lectures	10
Practical activities	7,5
Laboratory practical work	7
Tutorials	5
Autonomous work	68
Case analysis	8
Assessments	2,5
TOTAL	**150**

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Assessment system	Weight
Theoretical knowledge examinations	70%
Active methodologies	30%
In-class activities	Extra points

When you access the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

7.1. First exam period

To pass the course in the first exam period, you must obtain a final course grade of at least 5 out of 10 (weighted average).

In any case, you will need to obtain a grade of at 5.0 in the final exam in order for it to count towards the final grade along with all the grades corresponding to the other activities.

According to article 1, point 4 of the UNIVERSIDAD EUROPEA DE MADRID's REGULATION OF EVALUATION OF OFFICIAL DEGREES:

"Students taking campus-based studies are required to demonstrate that they have attended at least 50% of their classes. Such attendance forms an essential part of the assessment process and is necessary to give the student the right to receive guidance, assistance and academic supervision from the professor. For such purposes, students must use the technological system put in place by the University to accredit their daily attendance at each of their classes. This system shall furthermore ensure that objective information is gathered regarding the active role of the student in the classroom. The failure to use the methods proposed by the University to demonstrate 50% attendance will give the professor the right to grade the course as a fail under the ordinary exam period. The foregoing does not affect other requirements of higher attendance percentages that each school may establish in their teaching guides or internal regulations.

Therefore, it is the authority of the professor that students who have not fulfilled the 50% of attendance in the ordinary call must pass all the evaluation tests in the extraordinary call, for which they must obtain a grade greater than or equal to 5.0 out of 10.0 in all of them (Faculty Board 11-07-23)."

7.2. Second exam period

To pass the course in the first exam period, you must obtain a final course grade of at least 5 out of 10 (weighted average).

In any case, you will need to obtain a grade of at 5.0 in the final exam in order for it to count towards the final grade along with all the grades corresponding to the other activities.

8. SCHEDULE

This table shows the delivery deadline for each assessable activity in the course:

Assessable activities	Deadline
Integrated activity on the Cardiovascular System.	Week 6-7
Practical activity on the Respiratory System.	Week 9-10
Integrated activity on the Digestive System.	Week 13-14
Practical activity on the body systems integration.	Week 15
Final exam	Week 18

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any change as and when appropriate.

9. BIBLIOGRAPHY

The main reference work for this subject is:

- Tortora GJ & Derrickson BH. "Principles of Anatomy and Physiology". 15th edition. Wiley eds.

The recommended Bibliography is:

- Silverthorn DU. "Human Physiology: An Integrated Approach". 7th edition. Pearson eds, 2016
- Guyton and Hall. "Textbook of Medical Physiology", 14th edition. Elsevier.
- Ross and Pawlina. "Histology. A text and atlas", 6th edition. Lippincott Williams &Wilkins.

10. DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.

11. ONLINE SURVEYS

Your opinion matters!

The Universidad Europea encourages you to participate in several surveys which help identify the strengths and areas we need to improve regarding professors, degree programs and the teaching-learning process.

The surveys will be made available in the “surveys” section in virtual campus or via e-mail.

Your assessment is necessary for us to improve.

Thank you very much for your participation.