

## **Course Description**

***SUBJECT: GENERAL PATHOLOGY***

***COURSE 2<sup>ND</sup>; YEARLY***

***DEGREE: DENTISTRY***

***IN-CLASS TEACHING***

***ACADEMIC YEAR 2022/2023***

***SCHOOL OF MEDICINE***

## 1. COURSE IDENTIFICATION

### 1.-COURSE:

Title: General Pathology		
Code: 19702		
Year (s) in which the course is taught: 2nd	Semester (s) when the course is taught: yearly	
Type: Compulsory	ECTS of the course: 6	Hours ECTS: (30)
Language: English	Modality: (attendance is required)	
School which the course is taught: Medicine		

### 2.- ORGANIZATION OF THE COURSE:

Department: Dentistry
Subject: Medicine

## 2. LECTURERS OF THE COURSE/SUBJECT

### 1.-LECTURERS:

Responsible of the course	CONTACT
Name:	Gonzalo García de Casasola Sánchez
Phone (ext):	645935970
Email:	<a href="mailto:ggcasolaster@gmail.com">ggcasolaster@gmail.com</a>
Office:	

Lecturer (s)	CONTACT
Name:	Pablo Demelo Rodríguez
Phone (ext):	659781131
Email:	<a href="mailto:pablo.demelorodriguez@ceu.es">pablo.demelorodriguez@ceu.es</a>
Office:	

Lecturer (s)	CONTACT
Name:	
Phone (ext):	
Email:	
Office:	

## 2.- TUTORIALS:

For any queries students can contact lecturers by e-mail, phone or visiting their office during the teacher's tutorial times published on the students' Virtual Campus.

## 3. COURSE DESCRIPTION

At the end of the course, the student must be familiar with the pathophysiology of the most common medical syndromes and must know the most prevalent diseases. Special emphasis will be placed on medical procedures related to dentistry. The student must be able to perform an odontology-oriented clinical history to discern the potential additional risks of the patients. It is important to learn medical terminology in order to understand medical reports or patients symptoms. Specifically, it is essential that students know coagulation disorders and how to deal with a patient with antithrombotic treatment that will undergo an invasive dental procedure. In the same vein, students must know in what cases antibiotic prophylaxis is indicated.

## 4. COMPETENCES

### 1.- COMPETENCES:

Code	Basic and General Skills
GC.15-15	To familiarize with the general pathological characteristics of diseases and disorders that affect organic systems, specifically those that have oral repercussions
CE.29	Get to know the oral manifestations of systemic diseases
CE.33	Get to have appropriate knowledge of human nutrition and prevention of oral-dental diseases

Code	Transversal Skills

Code	Specific Skills

### 2.- LEARNING OUTCOMES:

Learning outcomes-
<p>The student, at the end of the course, should be familiar with the pathophysiology of the most common medical syndromes and know the most prevalent diseases. In a special way, it will include the medical processes related to dentistry.</p> <p>The student must know how to carry out the dental history with ease to be able to discern the possible added risks of their patients to the dental activity.</p>

It is important to learn medical terminology in order to understand the medical reports or the symptoms that patients present.

More specifically, it is essential for the student to know the coagulation disorders and know how to manage a patient with antithrombotic treatment that will be subjected to an invasive dental procedure

In the same line, the student must know in which heart diseases and in which dental procedures antibiotic prophylaxis is indicated.

## 5. LEARNING ACTIVITIES

### 1.- DISTRIBUTION OF STUDENTS' ASSIGNMENT:

Total hours of the course	180
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Code	Name	In-class teaching
AF1	Master class	45
	Seminars, workshops and practices	15
TOTAL Hours		60

Code	Name	Not on-campus hours
AF-8	Independent Work	120

### 2.- LEARNING ACTIVITIES

Learning Activities	DEFINITION
Master Class	Lectures will last 30-40 minutes. The most important issues of the subject in relation to dentistry are discussed. Presentations (in PowerPoint) will be available in the section on "Documents to Support Teaching" (which will be accessible through CEU website for all students enrolled in the course). The lectures are based on the book "Pathophysiology and general pathology", specifically written for the consultation of this subject. During classes student participation will be encouraged, which is why the duration of the theoretical explanation is 30-40 minutes. Lectures account for approximately 60% of the training.
Seminars, workshops and clinical practices	Seminars and workshops consist of exposure of paradigmatic clinical cases related to the theoretical basis of the subject. Student participation is critical. The duration of this activity is about 50 minutes. Seminars, workshops and practices account for approximately 40% of the training.

## 6. ASSESMENT OF LEARNING

### 1.- CLASS ATTENDANCE:

- In order to be eligible for examination by continuous assessment students must attend at least 75% of scheduled class time (attendance sheets will be used). As students may be absent 25% of the classes, no attenuating circumstances will be accepted for absences.
- 100% attendance at practical classes is required.

### 2.- ASSESMENT METHOD AND CRITERIA:

ORDINARY ASSESSMENT (Continual Assessment)		
ASSESSMENT SYSTEM		
Code	Name	Percentage
	Attendance in theoretical classes and seminars (> 75%) + active participation (class evaluation)	20
	Continuous assessment written test (midterm exam)	20
	Final exam	60

EXTRAORDINARY ASSESSMENT		
Cod	Nombre	Peso
	Extraordinary exam	80
	Practices	20

### 3.- ASSESMENT METHOD DESCRIPTION:

Assesment criteria	Definition
Midterm and final exam (written)	It consists of short essay questions (3) and clinical cases (3) in which students must reason medical problems
Practices	Is the assessment of individual interventions of students during practices in which clinical cases related to the subject are discussed
Workshops and seminars	Text comments on new relevant publications will be proposed to learn new and practical concepts for the daily activity as a professional.

## 7. COURSE SYLLABUS

### 1.- COURSE SYLLABUS

THEORETICAL:

1. Introduction to General Pathology

1. Fever.
2. Edema.

2. Blood disorders

1. Introduction. Blood. Hematopoiesis.
2. Anemia. Blood transfusions.
3. Leukocyte disorders
4. Platelet disorders
5. Hemostasis
6. Hemostasis disorders
7. Antithrombotic therapy

3. Respiratory system disorders

1. Introduction. Pathophysiology
2. Respiratory failure
3. Asthma.
4. COPD
5. Respiratory infection. Influenza. Pneumonia. COVID-19.

4. Arteriosclerosis and cardiovascular risk factors

5. Cardiovascular system disorders

1. Introduction. Pathophysiology
2. Heart failure
3. Arterial hypertension
4. Ischemic heart disease
5. Shock
6. Syncope. Sudden death.
7. Infective endocarditis and prophylaxis in odontology

6. Kidney and urinary tract disorders.

1. Introduction. Pathophysiology
2. Acute kidney injury
3. Chronic kidney disease
4. Acid-base disorders.

8. Liver and biliary tract disorders

1. Introduction. Pathophysiology
2. Jaundice
3. Viral hepatitis
4. Cirrhosis

9. HIV infection

10. Endocrine system disorders

1. Diabetes mellitus

11. Nervous system disorders

1. Introduction. Pathophysiology
2. Cerebrovascular diseases

PRACTICAL WORK PROGRAMME: Seminars, workshops and practices are, as previously commented, based on discussion of clinical cases

## 8. BIBLIOGRAPHY

### 1.- ESSENTIAL BIBLIOGRAPHY:

Harrison's Principles of Internal Medicine. 19th Edition. Kasper DL, Fauci AS, Houser SL, Longo DL, Jameson JL, Loscalzo J, editors. McGraw-Hill 2015. ISBN: 978-0-07-180215-4.

### 2.- ADDITIONAL BIBLIOGRAPHY:

Master classes will be provided to students in electronic pdf format (in English).

### 3.- WEB RESOURCES:

Medline: [www.ncbi.nlm.nih.gov/entrez](http://www.ncbi.nlm.nih.gov/entrez)  
[Http://www.martindalecenter.com/Dental.html](http://www.martindalecenter.com/Dental.html)

## 9. ATTITUDE IN THE CLASSROOM

### 1.- GUIDELINES

Any irregular act of academic integrity (no reference to cited sources, plagiarism of work or inappropriate use of prohibited information during examinations) or signing the attendance sheet for fellow students not present in class will result in the student not being eligible for continuous assessment and possibly being penalized according to the University regulations.

## 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.