

## 29217 - Nutritional Pathology

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	29217 - Nutritional Pathology
<b>Faculty / School</b>	229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	441 - Degree in Human Nutrition and Dietetics
<b>ECTS</b>	6.0
<b>Year</b>	3
<b>Semester</b>	Half-yearly
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Aims of the course**

#### **1.2.Context and importance of this course in the degree**

#### **1.3.Recommendations to take this course**

### **2.Learning goals**

#### **2.1.Competences**

#### **2.2.Learning goals**

#### **2.3.Importance of learning goals**

### **3.Assessment (1st and 2nd call)**

#### **3.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

### **4.Methodology, learning tasks, syllabus and resources**

#### **4.1.Methodological overview**

**The learning process that has been designed for this course is based on the following:**

The subject is divided into 30 theoretical lectures of one hour, and 10 thematic seminars/workshops of one to two hours and clinical practices in the hospital. The content of the lectures will be based on a book or manual recommended previously and adapted to the level of knowledge of the student. In the Seminar students work on cases related to the subject and must resolve problems through personal effort and teamwork. In Workshops the teacher will present the basic knowledge for the development of a medical history with the knowledge of the basic physical examination and the main signs of the disease using audiovisual methods.

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As teaching support will be provided in the web: literature recommendations, program of the course, guide teaching, hours of theoretical and practical classes, as well as summaries of theoretical subjects or supplementary material of the practices in some cases, if necessary. The address where this material will appear is: <http://www.unizar.es/dvirtual.htm> (Teaching Digital Ring)

### 4.2.Learning tasks

The program offered to students to assist in achieving the expected results includes the following activities

#### NUTRITIONAL PATHOLOGY

##### 5.2. Learning tasks

The course includes 8.4 ECTS organized according to:

Lectures 45% 2.60 ECTS (67,50 hours)

Large groups: (50%) 1.20 ECTS (30 hours)

Practice sessions; seminars / workshops (and tutorial) 0.7 ECTS

Practice clinics (in small groups) 0,5 ECTS

Autonomous work (on-line) 3.4 ECTS

1 ECTS= 10 onsite hours

### 4.3.Syllabus

#### NUTRITIONAL PATHOLOGY

1. Malnutrition
2. Obesity
3. Metabolic syndrom
4. Diabetes Mellitus
5. Thyroid disease
6. Congenital metabolism errors
7. Carbohydrate metabolism,
8. Aminoacid metabolism diseases.
9. Lipid metabolism: Dyslipidemia.
10. Diseases of plasma proteins. Metabolism of purines. Gout
11. Pathology of the musculoskeletal system. Calcium and phosphorus metabolism disorders.
10. Oncology: nutritional pathophysiology.
11. Advances in molecular nutrition (nutrigenomics)
12. Nutritional effects of alcohol
13. Gastrointestinal pathology.: esophageal dysphagia, gastroduodenal ulcer, heartburn, intestinal constipation and diarrhea
14. Malabsorption syndrom I.Celiac disease.

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15. Malabsorption syndrom II. Short bowel syndrom. Inflammatory bowel disease.
16. Liver and nutrition.
17. Pancreatic insufficiency
18. Food allergy and food intolerance.
19. Vitamin deficiency
  
20. Hypervitaminosis
21. Diseases related to trace elements
22. Nutritional pathology in neurological diseases
23. Renal insufficiency. Dialysis, renal transplantation.
24. Nutritional pathology in cardiovascular diseases (hypertension, heart insufficiency, atherosclerosis)
25. Nutritional pathology in respiratory diseases (COPD)
26. Nutritional pathology in surgical diseases I
27. Nutritional pathology in surgical diseases II
27. Nutritional pathology in organ transplantation
  
28. Bariatric surgery

### 4.4.Course planning and calendar

Course planning and calendar

Calendar of sessions and presentations during the 6th semester of the degree (from January to may). Lectures: 2 classes a week for 14 weeks. Workshops/seminars: 1 workshop per week. Clinical practices: according to schedule in small groups. Calls for examination on dates designated by the Centre (June).

For further details concerning the timetable, classroom and further information regarding this course please refer to <https://fccsyd.unizar.es/>

### 4.5.Bibliography and recommended resources

- Trastornos de la conducta alimentaria y obesidad : un enfoque integral / [coordinadores], Gonzalo Morandé Lavin , Montserrat Graell Berna, M. Ascensión Blanco Fernández Madrid : Editorial Médica Panamericana, D.L. 2014
- Nutrición en la salud y la enfermedad / Editors A. Catharine Ross ... [et al.] . - 11ª ed. L'Hospitalet de Llobregat : Wolters Kluwer Health, D.L. 2014
- Katz, D.. Nutrición Médica 2015 Edición; 3ª(ISBN-13 9788416004812)
- Medicina interna [17ª ed.] / fundado por A. von Domarus ; continuado por P. Farreras Valentí ; director (desde 1968) C. Rozman ; subdirector (desde 2003), F. Cardellach López . - 17ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier,