

## 29217 - Nutritional Pathology

### Syllabus Information

**Academic Year:** 2019/20

**Subject:** 29217 - Nutritional Pathology

**Faculty / School:** 229 - Facultad de Ciencias de la Salud y del Deporte

**Degree:** 441 - Degree in Human Nutrition and Dietetics

**ECTS:** 6.0

**Year:** 3

**Semester:** Second semester

**Subject Type:** Compulsory

**Module:** ---

### 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 methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, seminars, workshops and autonomous work and study.

#### 4.2.Learning tasks

This course is organized as follows:

- **Lectures** (30 hours). 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.
- **Seminars**. 10 sessions from one to two hours in which students work on cases related to the course and must solve problems individually and in groups.
- **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.
- **Autonomous work and study**.

#### 4.3.Syllabus

This course will address the following topics:

- 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.
- 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**

Calendar of sessions and presentations during the 6th semester of the degree (from January to may). Lectures: 2 sessions a week for 14 weeks. Workshops/seminars: 1 workshop per week. Clinical practice sessions: according to schedule in small groups.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Faculty of Health and Sport Sciences website and Moodle.

#### **4.5.Bibliography and recommended resources**

[http://biblos.unizar.es/br/br\\_citas.php?codigo=29217&year=2019](http://biblos.unizar.es/br/br_citas.php?codigo=29217&year=2019)