



## Information about the subject

**Degree:** Bachelor of Science Degree in Occupational Therapy

**Faculty:** Faculty of Psychology

**Code:** 1122002 **Name:** Medical-surgical conditions I

**Credits:** 6,00 **ECTS Year:** 2 **Semester:** 1

**Module:** MEDICAL, SURGICAL AND PSYCHIATRIC AFFECTIONS

**Subject Matter:** Medical-Surgical Conditions **Type:** Compulsory

**Field of knowledge:** Health Sciences

**Department:** Occupational Sciences

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

**Lecturer/-s:**

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## Module organization

### MEDICAL, SURGICAL AND PSYCHIATRIC AFFECTIONS

| Subject Matter              | ECTS  | Subject                                       | ECTS | Year/semester |
|-----------------------------|-------|---|------|---------------|
| Medical-Surgical Conditions | 18,00 | Medical-surgical conditions I                 | 6,00 | 2/1           |
|                             |       | Medical-surgical conditions II                | 6,00 | 2/2           |
|                             |       | Medical-surgical conditions III               | 6,00 | 3/1           |
| Psychiatry                  | 6,00  | Psychopathology and psychological treatments  | 6,00 | 3/1           |
| Public Health               | 6,00  | Public health, management and quality of care | 6,00 | 4/2           |

## Recommended knowledge

**Not required.** It is recommended to have previously studied the Subjects: Structure and Function of the Human Body I and II.



## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 To know the main medical-surgical conditions on which the Occupational Therapist intervenes.
- R2 To know and properly use subject-specific terminology.
- R3 To use, interpret and critically evaluate scientific documents used in the study of medical-surgical conditions.
- R4 To acquire the ability to synthesize and explain basic concepts.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

| GENERAL |  | Weighting |   |   |   |
|---------|--|-----------|---|---|---|
|         |  | 1         | 2 | 3 | 4 |
| CG2     | To know the national and international health organisations, as well as the environments and conditions of the different health systems  |           | X |   |   |
| CG3     | To obtain and use epidemiological data and value trends and risks involved in the taking of health-related decisions   |           |   | X |   |
| CG9     | To recognise the determiners of health on the population, the resources and multidisciplinary teams and the intervention actions, maintenance and promotion of health, at an individual level as well as that of community   |           | X |   |   |
| CG14    | To know, select and apply the appropriate theories, the theoretical frameworks for reference, the models and methods of Occupational Therapy practice to choose or re-establish meaningful occupation, according to the health needs of individuals/populations (promotion of health, prevention and treatment). |           |   | X |   |
| CG15    | To cooperate with groups and communities to promote the health and wellbeing of their members through participation in meaningful occupation   |           |   | X |   |
| CG19    | To acquire basic knowledge about management and improvement of the quality of Occupational Therapy services considering the advances in health, social care, society and legislation at local, national and international levels, centred on individuals/populations   |           | X |   |   |
| CG21    | To listen actively, to obtain and summarise key information about occupational problems and demands of the individuals/populations and to understand the content of that information.  |           |   | X |   |
| CG22    | To establish an assertive interpersonal communication with all the interlocutors that is relevant during the Occupational Therapy process.   |           | X |   |   |



| SPECIFIC   | Weighting |   |   |   |
|--|-----------|---|---|---|
|  | 1         | 2 | 3 | 4 |
| CE59 To know and understand medical, surgical and psychiatric knowledge applicable to the human being in all stages of the cycle of life, from infancy to old age, that allow the students to evaluate, synthesise and apply Occupational Therapy treatments.  |           |   | X |   |
| CE60 To know and understand the physio-pathological process at every stage of the life cycle, identifying the problems and preventive and clinical aspects of the person, in health as well as in illness.   |           |   | X |   |
| CE61 To know, evaluate, analyse, elaborate and participate in educational programmes and promote health within the scope of Occupational Therapy in order to prevent occupational dysfunctions in general and subsequent to medical, surgical and psychiatric conditions, as well as social exclusion. |           |   |   | X |
| CE62 To synthesise and apply the relevant knowledge of biological, medical, human, pedagogical, psychological, social, technological and occupational sciences, together with the theories of occupation and participation.  |           |   |   | X |



## Assessment system for the acquisition of competencies and grading system

| Assessed learning outcomes | Granted percentage | Assessment method   |
|----------------------------|--------------------|---|
| R1, R2, R3, R4             | 50,00%             | Written tests: Summative and final theoretical-practical test (open questions, objective test questions, truncated test, etc.) Preparation of field work memoranda, practical case solutions, single cases. |
| R2, R3, R4                 | 30,00%             | Presentation of group and individual works.   |
| R1, R2, R3, R4             | 20,00%             | Individual monitoring of attendance at face-to-face sessions and active participation in theoretical and practical classes, seminars and tutorials.   |

### Observations

#### Attendance and assessment methods

Students will be able to choose between two assessment methods for the course: **continuous and single assessment**.

##### 1. Continuous assessment:

A minimum of 70% attendance to face-to-face classes is required to be eligible.

Assessment is continuous and evidence of attendance/participation, practical activities and individual and/or group work will be collected/delivered throughout the term. All individual and group work will be submitted through the UCV's VIRTUAL CAMPUS within the deadlines and in the manner established by the lecturer of the subject. Late submissions will not be accepted under any circumstances. Those assignments that have not yet been handed in will be handed in and assessed on the official date of the second sitting.

In addition, there will be a final test of a theoretical-practical nature during the official exam period.

The official exam dates will be set by the Dean's Team of the Faculty in accordance with the periods established in the academic calendar. For changes to exam dates, please consult the reasons for such changes and the procedure in article 12 of the Exams Regulations.

##### 2. Single assessment:

This is for students who, for justified and documented reasons, are unable to meet the minimum attendance requirements. The request must be made in writing to the lecturer responsible for the subject, who will respond by the same means.

The single assessment does not consist of a single test, but of the set of tests and/or activities necessary to demonstrate and measure all the learning outcomes defined for the subject.



The structure of the single assessment in this subject will be as follows:

- Theoretical exam (50%)
  - Practical exam and/or additional work (50%): this part will include a practical test, and, if necessary, extraordinary autonomous work activities to demonstrate the learning outcomes.
- Note: In order to pass the course, students must pass the different assessment systems separately (attendance and participation, practicals/work and exam). Failure to comply with the rules and deadlines established for the completion of academic activities will invalidate the grade.
- Criteria for the awarding of honours: evidence of levels of excellence in all competences and learning outcomes.

### **With regard to the use of Artificial Intelligence (AI)**

- Any use of AI tools must be explicitly stated in the submitted document (e.g. in a footnote or annex).
- The name of the tool, the purpose of the use (e.g. grammar check, organisation of ideas, writing example) and in which part of the work it has been used shall be indicated.
- Responsible use of AI will be assessed as part of the criteria for originality and academic honesty.

### **Students may not use Artificial Intelligence (AI) to:**

- Recording or transcribing, in whole or in part, any activity carried out in the classroom, in order to obtain summaries or notes made by AI.
- Generate text in work related to the activity.
- Presenting AI-generated work as one's own.
- Providing the AI with statements, practice or assessment tests to obtain automatic answers.

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded.

Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.



## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 ON-CAMPUS CLASS
- M2 PRACTICAL CLASSES
- M3 SEMINAR
- M4 GROUP PRESENTATION OF PAPERS
- M5 OFFICE ASSISTANCE
- M6 ASSESSMENT
- M7 GROUP WORK
- M8 INDEPENDENT WORK





## IN-CLASS LEARNING ACTIVITIES

|   | LEARNING OUTCOMES | HOURS        | ECTS        |
|---|-------------------|--------------|-------------|
| ON-CAMPUS CLASS: Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge.<br>M1  | R1, R2, R3        | 29,00        | 1,16        |
| PRACTICAL CLASSES: Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity.<br>M2 | R1, R2, R3, R4    | 10,00        | 0,40        |
| SEMINAR: Supervised monographic sessions with shared participation<br>M3  | R1, R3            | 7,50         | 0,30        |
| GROUP PRESENTATION OF PAPERS: Application of multidisciplinary knowledge<br>M4  | R2, R3, R4        | 7,50         | 0,30        |
| OFFICE ASSISTANCE: Personalized and small group attention. Period of instruction and /or orientation carried out by a tutor to review and discuss materials and topics presented in classes, seminars, eadings, papers, etc.<br>M5  | R1, R2, R3, R4    | 3,00         | 0,12        |
| ASSESSMENT: Set of oral and/or written tests used in initial, formative or additive assessment of the student<br>M6   | R1, R2, R3, R4    | 3,00         | 0,12        |
| <b>TOTAL</b>  |                   | <b>60,00</b> | <b>2,40</b> |



## LEARNING ACTIVITIES OF AUTONOMOUS WORK

|  | LEARNING OUTCOMES | HOURS        | ECTS        |
|--|-------------------|--------------|-------------|
| GROUP WORK: Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform ( <a href="http://www.plataforma.ucv.es">www.plataforma.ucv.es</a> )<br>M7                                 | R3, R4            | 40,00        | 1,60        |
| INDEPENDENT WORK: Student study: Group Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform ( <a href="http://www.plataforma.ucv.es">www.plataforma.ucv.es</a> )<br>M8 | R1, R2, R3, R4    | 50,00        | 2,00        |
| <b>TOTAL</b>   |                   | <b>90,00</b> | <b>3,60</b> |



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

#### Content block

#### Contents

HEALTH PROBLEMS IN CHILDHOOD  
INTEREST FOR OCCUPATIONAL  
THERAPIST: DISEASES OF CHILDREN  
AND ADOLESCENTS

- 1.- The child healthy and pathological growth
- 2.- Prenatal Pathology.
- 3.- Delay and / or immaturity psychomotor
- 4.- Delay and / or immaturity psychomotor II
- 5.- Delay and / or immaturity psychomotor III
- 6.- Sensory disturbances
- 7.- Neuromuscular dystrophies
- 8.- Disorders of movement and control
- 9.- Orthopedic diseases and treatments
- 10.- Brain Damage
- 11.- Miscellaneous
- 12.- Applied occupational therapy



## MUSCULOSKELETAL PATHOLOGY

### Introduction

1. Semiology of the musculoskeletal system. Major signs and symptoms. Key diagnostic tests. Basic maneuvers exploration.
2. Main manifestations of osteoarticular pathology. Fractures, sprains, dislocations
3. Fracture repair. Callus formation. Delayed union and nonunion. Complications: Fat embolism. Pressure ulcers. Osteomyelitis. Paraarticular ossification. Compartment syndromes. Vascular changes.

### GENERAL PATHOLOGY

4. Osteoarthritis. Concept and pathogenesis. Management of patients with osteoarthritis.
5. Amputees. Prosthesis.
6. Burned
7. Osteoporosis. Definition, impact and control of the osteoporotic patient.

### TRAUMATIC AND RHEUMATIC DISEASES

8. Upper extremity
9. Shoulder pathology. Principal tables traumatic, orthopedic, neurological and rheumatic
10. Pathology of the elbow. Main clinical
11. Pathology of the hand. Principal tables traumatic, orthopedic, neurological and rheumatic.
12. Rheumatic diseases I. Rheumatoid arthritis.
13. Rheumatic diseases II. Ankylosing spondylitis.
14. Rheumatic diseases III. Gout and pseudogout. Fibromyalgia. Lupus erythematosus, dermatomyositis and scleroderma.
15. Spine pathology: Fractures. Cervical pain, lumbago, sciatica.
16. Spine deformities
17. Hip pathology. Hip fractures. Prosthesis. Management of elderly patients with hip prosthesis.
18. Pathology of the knee. Principal tables traumatic, orthopedic, neurological and rheumatic.
19. Foot pathology. Principal tables traumatic, orthopedic, neurological and rheumatic, orthopedic muscle and tendon rupture, nerve sections.



## Temporary organization of learning:

| Block of content   | Number of sessions | Hours |
|--|--------------------|-------|
| HEALTH PROBLEMS IN CHILDHOOD INTEREST FOR<br>OCCUPATIONAL THERAPIST: DISEASES OF CHILDREN<br>AND ADOLESCENTS | 15,00              | 30,00 |
| MUSCULOSKELETAL PATHOLOGY  | 15,00              | 30,00 |



## References

### CHILHOOD

- Terapia ocupacional en pediatría: procesos de evaluación Mulligan, Shelley E – Panamericana 2006
- Terapia ocupacional en la infancia ISBN: 978-84-9835-027-2- Panamericana 2008
- Manual de Pediatría Social: José Antonio Díaz Huertas, Laura Marín López y Antonio Muñoz Hoyos ISBN:978-84-16021-00-0 (2013)
- Protocolos de Reumatología. Protocolos de la AEP Asociación Española de Pediatría/ Sociedad de Española de Reumatología Pediátrica (2014)
- Modelo estadístico para predecir el puntaje de desarrollo psicomotor de niños de 4 a 5 años de edad en función del nivel socioeconómico. Leiva M, Valdés M. Arch. Pediatr. Urug. vol.87 no.1 Montevideo mar. 2016 (link: [http://www.scielo.edu.uy/scielo.php?script=sci\\_arttext&pid=S1688-12492016000100004](http://www.scielo.edu.uy/scielo.php?script=sci_arttext&pid=S1688-12492016000100004) )

### MUSCULOSKELETAL PATHOLOGY

- Viladot R. Ortesis y prótesis del aparato locomotor. Varios volúmenes. Ed. Masson. Barcelona
- Canale S, Beaty J. Campbell's Operative Orthopaedics. Mosby, 12ª ed. Madrid, 2012.
- Delgado, A. Cirugía Ortopédica y Traumatología. Panamericana. 2ª ed. Madrid, 2012.
- Bulstrode C. Oxford Textbook of Trauma and Orthopaedics. Ed Oxford. Oxford, 2011.
- McRae R. Tratamiento Práctico de Fracturas. Elsevier 5ª ed. Madrid, 2010.
- Manual de Cirugía Ortopédica y Traumatología. Tomo 1 y 2. SECOT (Sociedad Española de Cirugía Ortopédica y Traumatológica). Panamericana 2ª ed. Madrid, 2010.
- Figueroa Pedrosa M. Manual de las Enfermedades Reumáticas. Sociedad Española de Reumatología. Ed. Doyma. Madrid
- Monografías médico-quirúrgicas del apar Síndromes dolorosos. René Caillet. Ed. El manual moderno, 1985.
- ato locomotor. Formación continuada de la SECOT y la SER. Ed. Masson. Barcelona
- Diagnóstico clínico y tratamiento, 2010. Editado por Stephen J. McPhee, Maxine A. Papadakis. 49ª ed. México D.F., McGraw-Hill, 2010
- Síndromes dolorosos. René Caillet. Ed. El manual moderno, 1985.