

# Course guide

## 370017 - DISFUNVB - Binocular Vision Dysfunctions

Last modified: 21/03/2024

**Unit in charge:** Terrassa School of Optics and Optometry  
**Teaching unit:** 731 - OO - Department of Optics and Optometry.

**Degree:** BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2020). (Compulsory subject).

**Academic year:** 2023    **ECTS Credits:** 6.0    **Languages:** Catalan

### LECTURER

---

**Coordinating lecturer:** Vila Vidal, Núria <https://futur.upc.edu/NuriaVilaVidal>

**Others:** Nicolau Roset, Maria Assumpta  
Aldaba Arevalo, Mikel <https://futur.upc.edu/MikelAldabaArevalo>  
Turull Mallofre, Aina <https://futur.upc.edu/AinaTurullMallofre>

### DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

---

#### Specific:

CE20. Measure, interpret and treat refractive errors. Describe the sensory and oculomotor mechanisms of binocular vision. Identify the principles of and measure, interpret and treat accommodative and binocular vision anomalies. Demonstrate skills in communication, recording data and writing clinical histories. Demonstrate skills in the interpretation and clinical judgement of results of vision tests, to establish the most suitable diagnosis and treatment. Demonstrate skills in instrumental assessment tests of visual function and eye health. Carry out a complete medical history. Identify, apply and interpret instrumental tests relating to visual health problems. Demonstrate the clinical skills required for the examination and treatment of patients. Examine, diagnose and treat visual anomalies with an emphasis on differential diagnosis. Describe the nature and organisation of types of clinical care. Describe the protocols that are applied to patients.

#### General:

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

CG3. Advise and guide patients and relatives during the entire treatment.

CG10. Communicate treatment indications of visual health and their conclusions to the patient, relatives and other professionals involved in the patient's care, adapting to the sociocultural characteristics of each person.

CG12. (ENG) The ability to understand the general structure of optometry and its connection to other specific disciplines and other complementary ones.

CG15. (ENG) Demostrar capacitat per actuar com a agent d'atenció primària visual.

#### Transversal:

CT6. Independent learning. Identify and overcome gaps in one's knowledge by thinking critically and choosing the best approach to extending one's knowledge.

### TEACHING METHODOLOGY

---

### LEARNING OBJECTIVES OF THE SUBJECT

---

..



## STUDY LOAD

Type	Hours	Percentage
Hours medium group	30,0	20.00
Hours small group	30,0	20.00
Self study	90,0	60.00

Total learning time: 150 h

## CONTENTS

### title english

**Description:**

content english

**Full-or-part-time:** 30h

Practical classes: 10h

Self study : 20h

### title english

**Description:**

content english

**Full-or-part-time:** 47h

Practical classes: 15h

Self study : 32h

## ACTIVITIES

### name english

**Full-or-part-time:** 26h

Laboratory classes: 26h

### name english

**Full-or-part-time:** 14h 30m

Practical classes: 2h 30m

Self study: 12h

### name english

**Full-or-part-time:** 14h 30m

Practical classes: 2h 30m

Self study: 12h



**name english**

**Full-or-part-time:** 14h  
Self study: 14h

**name english**

**Full-or-part-time:** 2h  
Laboratory classes: 2h

**name english**

**name english**

**Full-or-part-time:** 2h  
Laboratory classes: 2h

---

## GRADING SYSTEM

---

## BIBLIOGRAPHY

### Basic:

- Borràs García, M. Rosa. Visión binocular: diagnóstico y tratamiento. Barcelona: Edicions UPC, 1996. ISBN 848301159X.
- Amos, John F. Diagnosis and management in vision care. Boston [etc.]: Butterworths, cop. 1987. ISBN 0409950823.
- Evans, Bruce J. W. Pickwell's binocular vision anomalies: investigation and treatment. 4th ed. Oxford [etc.]: Butterworth-Heinemann, 2002. ISBN 0750647140.
- Scheiman, Mitchell; Wick, Bruce. Clinical management of binocular vision: heterophoric, accommodative, and eye movement disorders [on line]. Fifth edition. Philadelphia, PA: Wolters Kluwer Health, [2020] [Consultation: 20/02/2023]. Available on: <https://oce-ovid-com.recursos.biblioteca.upc.edu/book?SerialCode=02148837>. ISBN 9781496399731.

### Complementary:

- Werner, D. Leonard; Press, Leonard J. Clinical pearls in refractive care. Boston [etc.]: Butterworth Heinemann, cop. 2002. ISBN 0750699124.
- Steinman, Scott B.; Steinman, Barbara A.; Garzia, Ralph P. Foundations of binocular vision: a clinical perspective. New York: McGraw-Hill, cop. 2000. ISBN 0838526705.