

Course guide

370041 - CRIBATG - Vision Screening for Children

Last modified: 29/05/2025

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). (Optional subject).

Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

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

Others: Galdón Flores, Alba. <https://futur.upc.edu/AlbaGaldonFlores>

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:

CT3. Teamwork. To be able to work as a member of a multidisciplinary team, either as a base member or undertaking managerial decisions aiming at developing projects from a practical and responsible standpoint, adopting commitments given the available resources

CT4. (ENG) Teamwork. The ability to work as a member of an interdisciplinary team, as just another member or in a leadership role, who can contribute to developing projects pragmatically and with a sense of responsibility and make commitments that take into account the resources that are available.

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

Basic:

CB2-OPT. (ENG) Que los estudiantes sepan aplicar sus conocimientos a su trabajo o vocación de una forma profesional y oseen las competencias que suelen demostrarse por medio de la elaboración y defensa de argumentos y la resolución de problemas dentro de su área de estudio

CB3-OPT. (ENG) Que los estudiantes tengan la capacidad de reunir e interpretar datos relevantes (normalmente dentro de su área de estudio) para emitir juicios que incluyan una reflexión sobre temas relevantes de índole social, científica o ética

CB4-OPT. (ENG) Que los estudiantes puedan transmitir información, ideas, problemas y soluciones a un público tanto especializado como no especializado

CB5-OPT. (ENG) Que los estudiantes hayan desarrollado aquellas habilidades de aprendizaje necesarias para emprender estudios posteriores con un alto grado de autonomía

TEACHING METHODOLOGY

MD3 - Practical class for solving, with student participation, practical cases and/or exercises related to the subject content.

MD4 - Laboratory practice.

MD5 - Reading of didactic material, texts, and articles related to the subject content.

This is an eminently practical course, in which students will spend a large part of their time examining the visual condition of schoolchildren in Terrassa, under the supervision of the teaching staff.

LEARNING OBJECTIVES OF THE SUBJECT

Upon completing the course, the student will be able to:

- 1.- Conduct a visual screening according to the target population
- 2.- Organize the information obtained from the screenings
- 3.- Prepare visual reports for families and schools

STUDY LOAD

Type	Hours	Percentage
Hours medium group	7,5	10.00
Hours small group	22,5	30.00
Self study	45,0	60.00

Total learning time: 75 h

CONTENTS

CLINICAL SEMINAR - 1. SCREENING PROTOCOLS

Description:

Definition of screening and its application to vision
Objective determination: target population, selection, and order of tests
Pass/fail thresholds for each test based on the objective
Specificity and sensitivity

Full-or-part-time: 11h 30m

Laboratory classes: 1h 30m

Self study : 10h

CLINICAL SEMINAR - 2. SCREENING LOGISTICS

Description:

Adaptation of visual tests for screening in schoolchildren
Training in the use of specific equipment: Maddox rod, Biometer, and Autorefractometer
Applied screening logistics
Optometric screening form

Full-or-part-time: 11h 30m

Laboratory classes: 1h 30m

Self study : 10h

PATIENT CARE

Description:

Execution of the selected visual tests for primary school students from schools in Terrassa, according to the study's objective.

Full-or-part-time: 23h

Laboratory classes: 18h

Self study : 5h

CLINICAL SEMINAR - 3. QUESTIONNAIRES AND REPORTS

Description:

Information from the questionnaire to teachers: academic performance

Information from the questionnaire to parents: socioeconomic level, visual history, visual habits

Preparation of individual visual reports for families and group reports for teachers

Management of clinical data: Excel and OpenVisió

Full-or-part-time: 16h

Theory classes: 6h

Self study : 10h

Presentation of the screening management project

Description:

Project related to a case of visual screening management.

This activity represents 25% of the total course grade.

Full-or-part-time: 13h

Theory classes: 3h

Self study : 10h

GRADING SYSTEM

The course grade is obtained as follows:

- Continuous assessment during clinical sessions: 50%
- Evaluation of visual reports for families and the school: 25%
- Evaluation of the project: 25%

Attendance is mandatory and any absence from clinical sessions must be documented.

REASSESSMENT: To be able to take the reassessment, the minimum grade must be 3.5. This reassessment consists of a written exam/project on aspects of visual screenings in schoolchildren. This activity represents 100% of the reassessment.

EXAMINATION RULES.

If any of the activities are not completed, they will be graded as zero.