

## 26816 - Clinical Optometry

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 26816 - Clinical Optometry

**Faculty / School:** 100 - Facultad de Ciencias

**Degree:** 297 - Degree in Optics and Optometry

**ECTS:** 10.0

**Year:** 3

**Semester:** Annual

**Subject type:** Compulsory

**Module:**

### 1. General information

The general objective of this subject is to instruct the optician-optometrist to acquire the necessary skills and abilities to perform in a hospital and outpatient health care environment.

In a first phase, the student will focus their study on the basic general exploration of the anterior pole. Subsequently, they will develop the study of visual function. Finally, structural exploration will be introduced. In this way, the student will acquire the competent clinical skills that will allow them to face the professional practice in a clinical optometric office, and will have the necessary ability to decide what type of tests or explorations should be performed and to choose the protocol for each patient.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>). Acquisition of the learning results of the subject provides training and competence to contribute to their achievement (Goal 3: Health and wellness).

### 2. Learning results

To pass this subject, the student must demonstrate the following learning results:

Possess the clinical skills for the examination and treatment of patients in a real clinical setting.

Know how to perform a complete anamnesis of a patient and a clinical history appropriate to the patient's profile and to determine, from these, the necessary tests to be performed.

Know and handle with skill the diagnostic tests that require specific technology and instruments in the evaluation of visual functions and ocular structures.

Know how to perform a complete optometric examination of the anterior pole.

Know and correctly use the different types of perimetric techniques.

Possess the practical knowledge related to fundus and retinal examination.

Be able to make an initial assessment of the results obtained.

To know the fundamentals of health education to which the optometrist must contribute from their field of action.

The learning results obtained in this subject enable the student to work in a clinical setting and allow them to establish direct contact with real patients, thus completing the training given in other subjects.

### 3. Syllabus

- Medical history and anamnesis
- Visual acuity assessment
- Objective and subjective refraction
- Slit lamp examination
- Keratometry
- Corneal topography
- Biometrics

- Pachymetry
- Evaluation of the corneal endothelium
- Visual field study
  - Manual techniques
  - Automated techniques
- Ocular photography
- General fundus examination.
- Angiography
- Structural fundus examinations:
  - Optical coherence tomography
  - Scanning confocal laser
  - Laser polarimetry

#### 4. Academic activities

Full group master classes

Theoretical seminars conducted in small groups

Internships in pairs in a health care facility: learning with simulated patients

Internships in pairs in a health care facility: learning with real patients

Problem-based learning

Resolution of clinical cases, peer review and discussion

Individual research work and oral presentation

Open group discussion forums

#### 5. Assessment system

##### **Option 1. Face-to-face mode (minimum attendance of 85% of class hours)**

###### Block 1: Theoretical part (30%).

Preparation and presentation of theoretical seminars (15%).

Self-assessment questionnaire (10%).

Theoretical exam (75%).

###### Block 2: Practical part (40%).

Evaluation of attendance to instrumental practices (10%).

Complementary practical workshops (10%)

Theoretical-practical exam (80%).

###### Block 3: Case studies and research work (30%).

Resolution of case studies and peer review (30%)

Research work (70%): elaboration of the work (60%), oral presentation of the work (40%)

##### **Option 2. Non-face-to-face mode (absence of more than 15% of teaching hours)**

The evaluation system will be carried out by means of the 3 blocks described in option 1, but the theoretical and practical parts will be evaluated by means of a single exam.

In order to pass the subject it will be an essential requirement to obtain a minimum grade of 5 in each block, accepting a 4.5 as

compensable only in one of the three parts. When this requirement is not met, the final grade will be the lowest of the grades obtained in the three blocks.

In both options, the grades of the blocks passed will be saved from one exam call to another, within the same academic year (not valid for different academic years).