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Bachelor's degree in Optics and Optometry

TERRASSA SCHOOL OF OPTICS AND OPTOMETRY (FOOT)

In the **bachelor's degree in Optics and Optometry**, you will study both medical and technology-related subjects, developing the knowledge and skills needed to diagnose, prevent and treat vision problems. In optics, you will receive the theoretical training needed to understand how images are formed by lenses, the fundamentals of optical instruments, and the causes of visual impairments, while your studies of optometry will allow you to develop the knowledge and skills needed to treat non-medical vision problems.

GENERAL DETAILS

Duration

4 academic years

Study load

240 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.

Delivery

Face-to-face

Admission mark 2025-2026 academic year

8,388

Language of instruction

Check the language of instruction for each subject (and timetable) in the course sheet in the curriculum.

Information on [language use in the classroom and students' language rights](#).

Fees and grants

Approximate fees per academic year: €1,061 (€1,800 for non-EU residents). [Consult the public fees system based on income \(grants and payment options\)](#).

Location

[Terrassa School of Optics and Optometry \(FOOT\)](#)

Official degree

[Recorded in the Ministry of Education's degree register](#)

ADMISSION

Places

90

Pre-enrolment code

31105

Admission mark 2025-2026 academic year

8,388. [Admission mark](#)

Weighting. University entrance examinations (PAU)

[Weighting. University entrance examinations \(PAU\)](#)

Registration and enrolment

[What are the requirements to enrol in a bachelor's degree course?](#)

CFGS credit transfer

[Consult the university studies search engine of the Universities Channel of the Generalitat de Catalunya](#)

Legalisation of foreign documents

All documents issued in non-EU countries must be [legalised and bear the corresponding apostille](#).

CURRICULUM

Subjects	ECTS credits	Type
FIRST SEMESTER		
Chemistry for Vision Sciences	6	Compulsory
Geometrical Optics	6	Compulsory
Head Anatomy and Histology	6	Compulsory
Mathematics for Optics and Optometry	6	Compulsory
Physics	6	Compulsory
SECOND SEMESTER		
Optical Materials	6	Compulsory
Photometry and Optical Instruments	6	Compulsory
Visual Optics	6	Compulsory
Visual System Anatomy	6	Compulsory
Wave Optics	6	Compulsory
THIRD SEMESTER		
Binocular Vision Bases	6	Compulsory
Clinical Procedures in Optometry	6	Compulsory
Ophthalmic Lenses	6	Compulsory
Optometrics Instruments	6	Compulsory
Physiology and Biochemistry	6	Compulsory
FOURTH SEMESTER		
Binocular Vision Dysfunctions	6	Compulsory
Fitting of Spectacles	6	Compulsory
Microbiology	6	Compulsory
Psychology and Public Health	6	Compulsory
Statistics and Epidemiology	6	Compulsory
FIFTH SEMESTER		
Advanced Clinical Procedures	3	Compulsory
Basic Contact Lens	6	Compulsory
Dispensing and Assembly of Spectacles I	3	Compulsory
Paediatric Optometry and Strabismus	6	Compulsory
Pathology	6	Compulsory
Visual Perception	6	Compulsory

Subjects	ECTS credits	Type
SIXTH SEMESTER		
Applied Contact Lens	6	Compulsory
Contact Lens Clinics I	3	Compulsory
Dispensing and Assembly of Spectacles II	3	Compulsory
Geriatric Optometry and Low Vision	3	Compulsory
Optometry Clinics I	9	Compulsory
Pharmacology	6	Compulsory
SEVENTH SEMESTER		
Contact Lens Clinics II	3	Compulsory
Optical Shop Managing	3	Compulsory
Optometry Clinics II	9	Compulsory
Visual Therapies	3	Compulsory
Basics of Hearing Aids	3	Optional
Children Visual Screenings	3	Optional
Digital Image Processing	3	Optional
Interactions Between Microorganisms and Contact Lenses	3	Optional
Intraocular Lenses: Optics & Optometry Assessment	3	Optional
Introduction to Biophotonics	3	Optional
Low Vision Management	3	Optional
Marketing in the Optical and Optometric Environment	3	Optional
Photography	3	Optional
Professional Communication in Healthcare: Effective Patient-Clinician Interaction	3	Optional
Refractive Surgery	3	Optional
Sportsvision: Eye-Tracking Application	3	Optional
Surface Treatments in Contact and Ophthalmic Lenses	3	Optional
Visual Accessibility	3	Optional
Visual Ergonomics	3	Optional
EIGHTH SEMESTER		
Practicum	18	Compulsory
Bachelor's Thesis	6	Project
PROFESSIONAL OPPORTUNITIES		

Professional opportunities

- Detection, diagnosis, prevention and treatment of visual health problems.
- Adaptation of glasses and contact lenses.
- Vision rehabilitation and consulting in vision care and ergonomics.
- Measurement and diagnostic testing for surgery.
- Medical-technical establishments related to optics.
- Hospitals, health centres and primary care centres.
- Ophthalmology centres and surgeries.
- Optical industry: technical, commercial and management positions.

QUALITY ACCREDITATION

Check the degree's main quality indicators in the University Studies in Catalonia portal of the Catalan University Quality Assurance Agency. Find information on topics such as degree evaluation results, student satisfaction and graduate employment data.

[Further information](#)

ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

Academic calendar

[General academic calendar for bachelor's, master's and doctoral degrees courses](#)

Academic regulations

[Academic regulations for bachelor's degree courses at the UPC](#)

Language certification and credit recognition

Queries about [language courses and certification](#)

December 2025. [UPC](#). Universitat Politècnica de Catalunya · BarcelonaTech