

Universidad
de Oviedo

Study in a Natural Paradise

Master's Degree Courses taught in English
Academic year 2025-2026



University of Oviedo
Vice Rectorate for Internationalisation

University of Oviedo

The University of Oviedo is a Spanish public institution with a heritage spanning over four centuries. It is an exceptionally dynamic university that champions modern, entrepreneurial, competitive, and high-quality academic training. Fully integrated into the European Higher Education Area, it maintains a steadfast commitment to public service, contributing to the holistic development of its student body and society at large.

As a founding member of the G-9 consortium of Spanish universities, the University of Oviedo offers a contemporary academic portfolio, including 68 undergraduate programmes, more than 30 bilingual pathways and 7 double degrees; 67 master's programmes and an extensive array of doctoral programmes. Additionally, it provides supplementary academic courses, micro-credentials, proprietary qualifications, national and international mobility programmes, and opportunities for external internships.

The University of Oviedo boasts campuses in the nearby cities of Oviedo, Gijón, and Mieres, as well as university residences in Oviedo (San Gregorio Residence and America Residence) and Mieres (University Residence of Mieres). Moreover, it provides a comprehensive range of sports facilities across its three principal university areas, alongside modernised amenities that rank it among the nation's most prominent universities.

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School of Biology

MASTER'S DEGREE IN BIOTECHNOLOGY OF ENVIRONMENT AND HEALTH				
Course	Credits	Year	Term	Link
Bacterial Biotechnology	4	1 st	FALL	↗
Animal Cell Biotechnology	4	1 st	FALL	↗
Biotechnology of Filamentous Fungi and Yeasts	4	1 st	FALL	↗
Genomic and Nucleic Acid Biotechnology	4	1 st	FALL	↗
Plant Biotechnology	4	1 st	FALL	↗
Biogeochemistry	4	1 st	SPRING	↗
Environmental Microbiology	4	1 st	SPRING	↗
Special Foods and Nutraceuticals	4	1 st	SPRING	↗
Toxicokinetics and Toxicodynamics	4	1 st	SPRING	↗
New Approaches in the Design of Drugs and Diagnostics Methods	4	2 nd	FALL	↗
Bioremediation	4	2 nd	FALL	↗
Biotechnology Projects Management	3	2 nd	FALL	↗
Innovation Management	4	2 nd	FALL	↗
Biosensors	4	2 nd	FALL	↗
Sustainability of Biotechnological Production	4	2 nd	FALL	↗

MASTER'S DEGREE IN MARINE CONSERVATION				
Course	Credits	Year	Term	Link
Genetic Biodiversity	3	1 st	FALL	↗
Biological Invasions	3	1 st	FALL	↗
Marine Protected Areas	3	1 st	FALL	↗
Evolution and Biogeography of Marine Organisms	3	1 st	FALL	↗
Aquaculture	3	1 st	FALL	↗
Advances in Integrated Coastal Zone Management	3	1 st	FALL	↗
Geographic Information Systems and Remote Sensing	3	1 st	FALL	↗
Ecological Modelling	3	1 st	FALL	↗
Legal and Economic Aspects of Marine Resources	3	1 st	FALL	↗
Population Biology Applied to Conservation	3	1 st	FALL	↗
Master's Dissertation	12	1 st	ANNUAL	↗

MASTER'S DEGREE IN MARINE BIOLOGICAL RESOURCES				
Course	Credits	Year	Term	Link
Spatial Distribution of Genetic Biodiversity	3	1 st	SPRING	↗
Marine Ecology	6	1 st	FALL	↗
Marine Ecology (Online)	3	1 st	FALL	↗
Joint School	3	1 st	FALL	↗
Landscape Genetics in Marine Settings	6	1 st	SPRING	↗
Marine Genomics	3	1 st	FALL	↗
Marine Genomics (Online)	3	1 st	FALL	↗
Integrated Coastal Zone Management	3	1 st	SPRING	↗
Quantitative Methods in Marine Science	6	1 st	FALL	↗
Oceanography	6	1 st	FALL	↗
Spatial Planning in Practice	6	1 st	SPRING	↗
Marine Policy and Governance	3	1 st	FALL	↗
Professional Practice	12	1 st	SPRING	↗
Marine Geographic Information Systems and Spatial Planning	3	1 st	FALL	↗
Molecular Techniques applied to Resource Evaluation and Management	6	1 st	SPRING	↗
Voluntary Work in the Solidarity Space	3	1 st	FALL	↗
Marine Protected Areas	3	1 st	SPRING	↗
Master's Dissertation	30	2 nd	SPRING	↗

School of Medicine and Health Sciences

MASTER'S DEGREE IN PUBLIC HEALTH IN DISASTERS				
Course	Credits	Year	Term	Link
Introductory Course	2	1 st	FALL	↗
Disaster Risk Assessment; Management and Reduction	16	1 st	FALL	↗
Disaster Types	14	1 st	FALL	↗
General Disaster Response	6	1 st	FALL	↗
Spanish	2	1 st	FALL	↗
Public Health Response in Disasters	20	1 st	SPRING	↗
Advanced Disasters Epidemiology and Research Methods	30	1 st	SPRING	↗
Applied Research Methods in Disasters	10	1 st	SPRING	↗
Internship	20	1 st	ANNUAL	↗
Master's Dissertation	30	1 st	ANNUAL	↗

School of Chemistry

MASTER'S DEGREE IN ANALYTICAL AND BIOANALYTICAL SCIENCES				
Course	Credits	Year	Term	Link
Mass Spectrometry for Elemental and Molecular Analysis	3	1 st	FALL	↗
Techniques for Solid and Surface Analysis	3	1 st	FALL	↗
Chemometrics and Advanced Data Analysis	3	1 st	FALL	↗
Qualitative and Quantitative Proteomics and Biomarker Analysis	3	1 st	FALL	↗
Environmental Analysis	3	1 st	FALL	↗
Stable Isotope-based Methods of Analysis	3	1 st	FALL	↗

MASTER'S DEGREE IN CHEMICAL ENGINEERING				
Course	Credits	Year	Term	Link
Safety and Hazard Analysis	4,5	1 st	SPRING	↗
Chemical Engineering Laboratory	4,5	1 st	SPRING	↗
Advanced Methodologies in Analytical Chemistry	4,5	1 st	SPRING	↗
Pollution Prevention and Sustainable Technologies	4,5	1 st	SPRING	↗
Research and Innovation Management	3	1 st	SPRING	↗
Analysis and Synthesis of Chemical Processes	4,5	1 st	SPRING	↗

MASTER'S DEGREE IN TECHNOLOGY AND MANAGEMENT FOR CIRCULAR ECONOMY				
Course	Credits	Year	Term	Link
Safety and Risk Analysis	4,5	1 st	SPRING	↗
Analysis and Synthesis of Chemical Processes	4,5	1 st	FALL	↗
Summer School	5	1 st	SPRING	↗
Experimentation in Chemical Engineering	4,5	1 st	SPRING	↗
Strategic Management of Research	3	1 st	SPRING	↗
Advanced Methodology in Chemical Analysis	4,5	1 st	SPRING	↗
Pollution Prevention and Sustainable Technologies	4,5	1 st	FALL	↗

School of Teacher Training and Education

MASTER'S DEGREE IN CONTENT AND LANGUAGE INTEGRATED LEARNING: ELEMENTARY AND PRIMARY EDUCATION				
Course	Credits	Year	Term	Link
Communicative Skills I	10	1 st	FALL	↗
Communicative Skills II	10	1 st	SPRING	↗
Methodology I	5	1 st	FALL	↗
Science in Bilingual Education	5	1 st	FALL	↗
Social and Cultural Sciences in Bilingual Education	5	1 st	SPRING	↗
Arts in Bilingual Education	5	1 st	FALL	↗
Physical Education in Bilingual Education	5	1 st	FALL	↗
Methodology II	4	1 st	SPRING	↗
Maths in Bilingual Education	5	1 st	SPRING	↗
Innovative Projects in Bilingual Education	3	2 nd	FALL	↗
Internship	12	2 nd	FALL	↗
Master's Dissertation	12	2 nd	FALL	↗

MASTER'S DEGREE IN TEACHERS OF COMPULSORY SECONDARY EDUCATION, UPPER SECONDARY EDUCATION AND VOCATIONAL TRAINING				
Course	Credits	Year	Term	Link
English for the Bilingual Classroom (Music)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Biology and Geology)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Mathematics)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Physics and Chemistry)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Technology)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Computing)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Training and Employment Guidance)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Geography and History)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Economics)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Philosophy)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Drawing)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Physical Education)	3	1 st	ANNUAL	↗
English for the Bilingual Classroom (Classical Languages)	3	1 st	ANNUAL	↗

School of Computer Engineering

MASTER'S DEGREE IN WEB ENGINEERING				
Course	Credits	Year	Term	Link
Human Computer Interaction	6	0	FALL	🔗
Databases	6	0	SPRING	🔗
Programming Languages Design	6	0	SPRING	🔗
Software Design	6	0	FALL	🔗
Programming Technologies and Paradigms	6	0	SPRING	🔗
Information Repositories	6	0	FALL	🔗

School of Sciences

MASTER'S DEGREE IN ADVANCED PHYSICS: PARTICLES, ASTROPHYSICS, NANOPHYSICS AND QUANTUM MATERIALS				
Course	Credits	Year	Term	Link
Phenomenology of the Standard Model and its Extensions	6	1 st	FALL	🔗
Quantum Technologies	6	1 st	FALL	🔗
High Energy Astrophysics	6	1 st	FALL	🔗
Advanced General Relativity	6	1 st	FALL	🔗
Quantum Field Theory	6	1 st	FALL	🔗
Modern Cosmology	6	1 st	SPRING	🔗
Particle Physics in the Energy Frontier	6	1 st	SPRING	🔗
Modern Topics in Particle Physics	6	1 st	SPRING	🔗
Advanced Experimental Techniques in Applied Physics, Atomic Physics, and Condensed Matter Physics	6	1 st	FALL	🔗
Advanced Magnetism	6	1 st	FALL	🔗
Quantum Field Theory in Applied Physics, Atomic Physics, and Condensed Matter Physics	6	1 st	FALL	🔗
Simulation of Materials and Nanostructures	6	1 st	SPRING	🔗
Advanced Optics and Photonics	6	1 st	SPRING	🔗
Novel Frontiers and Challenges in Applied Physics	6	1 st	SPRING	🔗
Master's Dissertation	12	1 st	ANNUAL	🔗

School of Philosophy and Letters

MASTER'S DEGREE IN WOMEN'S AND GENDER STUDIES – GEMMA				
Course	Credits	Year	Term	Link
Nation and Gender	6	0	FALL	🔗
Postcolonialism, Diasporas and Representation	6	0	FALL	🔗
Space, Body and Gender	6	0	FALL	🔗
Specialized Research Seminar	6	0	FALL	🔗
Women in European Texts: Comparative Perspectives	6	0	FALL	🔗
Women, Films and the Visual Arts	6	0	FALL	🔗

Oviedo Campus

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School of Maritime Studies

MASTER'S DEGREE IN NAUTICAL AND MARITIME TRANSPORT MANAGEMENT

Course	Credits	Year	Term	Link
Technical-Maritime Commercial English	4,5	1 st	FALL	G

Polytechnic School of Engineering

MASTER'S DEGREE IN ELECTRICAL ENERGY CONVERSION AND POWER SYSTEMS

Course	Credits	Year	Term	Link
Industrial Electronics in Renewable Energy Generation Systems	6	1 st	SPRING	G
Control and Monitoring in Renewable Energy Generation Systems	6	1 st	SPRING	G
Distributed Generation Systems and Power Quality	6	1 st	SPRING	G
Analysis, Modeling and Simulation of Electric Power Systems	6	1 st	SPRING	G
Laboratory	6	1 st	SPRING	G
Introduction to Renewable Energy Power Systems, Electrical Traction and Energy Efficiency	2	1 st	FALL	G
Power Systems Operation and Electrical Energy Transport	5	1 st	FALL	G
Control of Electromechanical Systems	3	1 st	FALL	G
Hybrid Control Systems and Digital Processing	4	1 st	FALL	G
Microcontrollers	3	1 st	FALL	G
Dynamic Analysis and Modelling of Electric Machines	3	1 st	FALL	G
Dynamic Control of AC Machines	3	1 st	FALL	G
Electric Machines for Generation and Traction	3	1 st	FALL	G
Power Plants	4	1 st	FALL	G
Electronic CAD	3	1 st	FALL	G
Power Electronics Devices and Circuits	4	1 st	FALL	G
Applied Simulation to Power Systems	3	2 nd	FALL	G
Power Systems with FACTS and HVDC: Analysis and Modeling	3	2 nd	FALL	G
Economic and Financial Analysis	4	2 nd	FALL	G
Electrical Energy Project Management (Renewable and Conventional)	4	2 nd	FALL	G
Electrical Markets	4	2 nd	FALL	G
Cooperation for Development	3	2 nd	FALL	G

MASTER'S DEGREE IN ELECTRICAL ENERGY CONVERSION AND POWER SYSTEMS

Course	Credits	Year	Term	Link
Offshore Wind Generators: Technologies, Structures, Operation and Maintenance	4	2 nd	SPRING	G
Design and Implementation of Wind Generators	5	2 nd	SPRING	G
Energy Storing and Recovering in Power Systems and Hybrid/Electric Vehicles	6	2 nd	FALL	G
Power Topologies and Control Methods in FACTS and HVDC Applications	3	2 nd	FALL	G
Microgrids and Smartgrids	6	2 nd	FALL	G
Applied Simulation to Hybrid/Electric Vehicles	3	2 nd	FALL	G
Challenges and Tendencies in Harvesting and Interconnection of Renewable Generation Systems	4,5	2 nd	SPRING	G
Internet of Energy and Energy Efficiency	4,5	2 nd	SPRING	G
Generic and Specific Topics in Scientific Research	3	2 nd	SPRING	G

Gijón Campus



Mieres Polytechnic School of Engineering

MASTER'S DEGREE IN MINING ENGINEERING

Course	Credits	Year	Term	Link
Tunnel Design and Execution	3	2 nd	SPRING	🔗
Explosives Engineering	3	2 nd	FALL	🔗
Mining and Civil Engineering	4,5	2 nd	FALL	🔗

Mieres Campus





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