

# DOUBLE DEGREE IN ENVIRONMENTAL SCIENCE AND GEOGRAPHY, GEOTECHNOLOGIES AND TERRITORIAL SUSTAINABILITY

		ECTS CREDITS	
Centres <a href="#">(see)</a>	Basic training (FB)		90
	Compulsory (OB)		228
	Optional (OP)		30
	End-of-degree Project (TFG)		12
	<b>Total</b>		<b>360</b>



**CLICK ON THE CODE OF EACH SUBJECT TO ACCESS THE COURSE HANDBOOK**

## FIRST YEAR

Code	Subject	Credits	Type	Semester	Syllabus
<a href="#">16476</a>	CHEMISTRY	9	FB	Annual	Environmental Sc.
<a href="#">16477</a>	GEOLOGY	9	FB	Annual	Environmental Sc.
<a href="#">20445</a>	GENERAL PHYSICAL GEOGRAPHY	12	FB	Annual	Geography
<a href="#">16478</a>	MATHEMATICS	6	FB	1	Environmental Sc.
<a href="#">16479</a>	BIOLOGY	6	FB	1	Environmental Sc.
<a href="#">16480</a>	SOCIETY AND THE ENVIRONMENT	6	FB	1	Environmental Sc.
<a href="#">16481</a>	STATISTICS	6	FB	2	Environmental Sc.
<a href="#">16482</a>	ZOOLOGY	6	FB	2	Environmental Sc.
<a href="#">16483</a>	BOTANY	6	FB	2	Environmental Sc.
<a href="#">16484</a>	HUMAN BEHAVIOUR AND THE ENVIRONMENT	6	OB	2	Environmental Sc.

## SECOND YEAR

Code	Subject	Credits	Type	Semester	Syllabus
<a href="#">16485</a>	ECOLOGY	9	OB	Annual	Environmental Sc.
<a href="#">16486</a>	ENVIRONMENTAL LAW	9	OB	Annual	Environmental Sc.
<a href="#">16487</a>	PHYSICS	6	FB	1	Environmental Sc.
<a href="#">16488</a>	ECONOMY AND THE ENVIRONMENT	6	FB	1	Environmental Sc.
<a href="#">16489</a>	MICROBIOLOGY	6	OB	1	Environmental Sc.
<a href="#">19206</a>	INTRODUCTION TO CARTOGRAPHY	6	OB	1	Geography
<a href="#">16490</a>	METEOROLOGY AND CLIMATOLOGY	6	OB	2	Environmental Sc.

Code	Subject	Credits	Type	Semester	Syllabus
<u>16491</u>	PEDOLOGY	6	OB	2	Environmental Sc.
<u>16493</u>	INSTRUMENTAL TECHNIQUES FOR ENVIRONMENTAL SCIENCES	6	OB	2	Environmental Sc.
<u>17724</u>	GEOGRAPHIC INFORMATION SYSTEMS	6	OB	2	Geography
<u>20450</u>	EUROPE: TERRITORY, ENVIRONMENT AND SOCIETY	6	FB	2	Geography

### THIRD YEAR

Code	Subject	Credits	Type	Semester	Syllabus
<u>16494</u>	ENVIRONMENTAL POLLUTION PROCESSES AND EVALUATION METHODOLOGIES	9	OB	Annual	Environmental Sc.
<u>16495</u>	ENVIRONMENTAL POLICIES AND MANAGEMENT IN THE ADMINISTRATION AND THE ENTERPRISE	9	OB	Annual	Environmental Sc.
<u>19207</u>	GEOGRAPHY OF SPAIN	12	OB	Annual	Geography
<u>16496</u>	BASIS OF ENVIRONMENTAL ENGINEERING	6	OB	1	Environmental Sc.
<u>16497</u>	APPLIED STATISTICS FOR ENVIRONMENTAL SCIENCES	6	OB	1	Environmental Sc.
<u>20446</u>	HISTORY OF SPAIN, TERRITORY AND SOCIETY	6	FB	1	Geography
<u>16498</u>	ECOLOGY AND MANAGEMENT OF NATURAL RESOURCES	6	OB	2	Environmental Sc.
<u>16499</u>	SOIL DEGRADATION AND CONSERVATION	6	OB	2	Environmental Sc.
<u>17735</u>	EVOLUTION OF GEOGRAPHIC THOUGHT	6	OB	2	Geography
<u>20453</u>	TERRITORIAL MANAGEMENT AND DEVELOPMENT	6	OB	2	Geography

### FOURTH YEAR

Code	Subject	Credits	Type	Semester	Syllabus
<u>16501</u>	ENVIRONMENTAL REMEDIATION TECHNOLOGIES	9	OB	Annual	Environmental Sc.
<u>16502</u>	LAND PLANNING AND THE ENVIRONMENT	9	OB	Annual	Environmental Sc.
<u>16503</u>	PROJECT PLANNING AND MANAGEMENT	6	OB	1	Environmental Sc.
<u>16513</u>	HUMAN ECOLOGY	6	OB	1	Environmental Sc.
<u>16523</u>	LANDSCAPE EVALUATION AND MANAGEMENT	6	OB	1	Environmental Sc.
<u>19208</u>	URBAN GEOGRAPHY	6	OB	1	Geography
<u>16529</u>	GEOSPATIAL TECHNOLOGIES FOR ENVIRONMENTAL SCIENCES	6	OB	2	Environmental Sc.

Code	Subject	Credits	Type	Semester	Syllabus
<u>19210</u>	PHYSICAL ENVIRONMENTAL APPLICATIONS OF GEOGRAPHIC INFORMATION TECHNOLOGIES	6	OB	2	Geography
<u>19211</u>	GEOGRAPHY OF SERVICES	6	OB	2	Geography
<u>20455</u>	DIVERSITY AND REGIONAL IMBALANCES IN SPAIN	6	OB	2	Geography
<u>20456</u>	GEOTECHNOLOGIES APPLIED TO HUMAN GEOGRAPHY	6	OB	2	Geography

## FIFTH YEAR

Code	Subject	Credits	Type	Semester	Syllabus
<u>19214</u>	END-OF-DEGREE PROJECT (GEOGRAPHY AND LAND MANAGEMENT)	6	TFG	Annual	Geography
<u>17726</u>	MANAGEMENT AND PLANNING OF THE PHYSICAL ENVIRONMENT	6	OB	1	Geography
<u>17727</u>	URBAN PLANNING AND POLICIES	6	OB	1	Geography
<u>16504</u>	END-OF-DEGREE PROJECT (ENVIRONMENTAL SCIENCE)	6	TFG	2	Environmental Sc.
<u>16518</u>	RURAL DEVELOPMENT ANALYSIS, PLANNING AND MANAGEMENT	6	OB	2	Environmental Sc.
<u>16531</u>	ASSESSMENT AND IMPLEMENTATION OF PUBLIC POLICIES	6	OB	2	Environmental Sc.
<u>20457</u>	CHALLENGES AND DARES OF CURRENT GEOGRAPHY	6	OB	2	Geography
	3 OPTIONAL SUBJECTS OF ENVIRONMENTAL SCIENCE	18	OP	1 or 2	Environmental Sc.
	2 OPTIONAL SUBJECTS OF GEOGRAPHY AND LAND MANAGEMENT	12	OP	1 or 2	Geography

## OPTIONAL SUBJECTS OF ENVIRONMENTAL SCIENCE

Code	Subject	Credits	Type	Semester
<u>18878</u>	EXTERNAL INTERNSHIP ENVIRONMENTAL SCIENCE	6	OP	Annual
<u>16505</u>	WASTE MANAGEMENT	6	OP	1
<u>16507</u>	INDUSTRIAL AND AGRICULTURAL INORGANIC MATERIALS: NATURAL RESOURCES, LIFE CYCLES AND THE ENVIRONMENT	6	OP	1
<u>16508</u>	RADIATION AND THE ENVIRONMENT	6	OP	1
<u>16509</u>	BIOTECHNOLOGY: ENVIRONMENTAL ANALYSIS AND BIOREMEDIATION I	6	OP	1
<u>16514</u>	ENVIRONMENTAL PERCEPTION	6	OP	1
<u>16516</u>	PLANNING AND MANAGEMENT OF PROTECTED AREAS	6	OP	1
<u>16517</u>	CROSS-DISCIPLINARY SEMINAR ON HUMAN DEVELOPMENT AND THE ENVIRONMENT	6	OP	1
<u>16521</u>	GEOBOTANY (PHYTOSOCIOLOGY)	6	OP	1
<u>16524</u>	HYDROLOGY AND WATER MANAGEMENT	6	OP	1
<u>16528</u>	ANIMAL PHYSIOLOGY	6	OP	1
<u>16506</u>	ENVIRONMENTAL PHOTOCHEMISTRY	6	OP	2

Code	Subject	Credits	Type	Semester
<u>16510</u>	ORGANIC COMPOUNDS AND THE ENVIRONMENT	6	OP	2
<u>16511</u>	ENERGY AND THE ENVIRONMENT	6	OP	2
<u>16512</u>	BIOTECHNOLOGY: ENVIRONMENTAL ANALYSIS AND BIOREMEDIATION II	6	OP	2
<u>16519</u>	ENVIRONMENTAL HAZARD ASSESSMENT AND MANAGEMENT	6	OP	2
<u>16520</u>	ENVIRONMENTAL INTERPRETATION AND EDUCATION	6	OP	2
<u>16522</u>	GEOLOGY LAB: ANALYSIS AND EVALUATION OF GEOLOGICAL MATERIALS AND LANDFORMS	6	OP	2
<u>16525</u>	SPECIES CONSERVATION	6	OP	2
<u>16526</u>	BASIS OF LIMNOLOGY	6	OP	2
<u>16527</u>	RESTORATION ECOLOGY	6	OP	2
<u>16530</u>	ENVIRONMENTAL PLANT PHYSIOLOGY	6	OP	2

#### OPTIONAL SUBJECTS OF GEOGRAPHY AND LAND MANAGEMENT

Code	Subject	Credits	Type	Semester
<u>17742</u>	HYDROGEOLOGY	6	OP	1
<u>19217</u>	POLITICAL AND HISTORICAL GEOGRAPHY	6	OP	1
<u>20459</u>	TERRITORY AND BIODIVERSITY	6	OP	1
<u>20460</u>	URBAN SPACES AND SOCIAL PROCESSES	6	OP	1
<u>20497</u>	SPANISH CITIES IN GLOBAL TIMES	6	OP	1
<u>17739</u>	SPAIN'S RURAL ENVIRONMENT: CHARACTERISATION AND DEVELOPMENT	6	OP	2
<u>17744</u>	CLIMATE CHANGE AND ENVIRONMENTAL IMPACTS	6	OP	2
<u>19222</u>	SEMINAR ON WORLD FRONTIERS	6	OP	2
<u>20809</u>	EXTERNAL PRACTICAL GEOGRAPHY AND LAND MANAGEMENT DEGREE	6	OP	1 or 2

#### CENTRES

##### Management Administration

##### Student:

Faculty of Sciences (Biology's Building)  
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28049 – Madrid  
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