

ETSIMFMN-UPM students studying at ULiège

1.- Only the graduates of the Bachelor Programmes Forest Engineering (Graduado en Ingeniería Forestal) or Natural Environment Engineering (Graduado en Ingeniería del Medio Natural) admitted to the Master's Degree in Forest Engineering (MDF), can register in the double degree Study Programme in ETSIMFMN-UPM (home University). In the first year of master they study within the MDF Study Programme consisting of the following courses taken from the First Year of the two year programme (total 60 ECTS):

Semester 1 (September-end of January):

Title	ECTS	Language
Land and Coastal Areas Management	4	Spanish
Integrated Forest Fire Management	5	Spanish
Electrical Installations and Electrification Projects	4	Spanish
Renewable energy: Biomass	4	Spanish
Forest and Nature Conservation Policies	4	Spanish
Environmental Economics and Valuation. Auditing Systems	5	Spanish
Structural Design Projects	4	Spanish
TOTAL ECTS	30	

Semester 2 (End of January-end of June or mid-July in case of resit)

Title	ECTS	Language
Hydrological Planning	3	Spanish
Control of Pollution in the Natural Environment and Bioremediation	3	English
Wood Technology and Processing	6	Spanish
Renewable Energy: Solar, Wind and minihydroelectric	3	Spanish
Business Administration and Sustainability	6	Spanish
Concrete construction and foundations	3	Spanish
Optional Courses*	6	Spanish/ English
TOTAL ECTS	30	
*Upon Agreement of the Management Committee		

2.- Students will continue their second year in ULiège (host University) within the Master in Forest and Natural Areas Engineering, consisting of the following courses taken from the first Year of the two year programme (total 60 ECTS). **Please note that most of the courses are taught in French**, except "Wood Sciences" and "Introduction to landscape analysis and modeling" which are taught in English. The course "*Practice of specialized English for bioengineer: part 2*" is taught in French and English.

Semester 3 (September-end of January)

Title	ECTS	Semester*
Inventory and biodiversity management		3
• <i>Quantification of ecosystemic services</i>	2	
• <i>Environmental economy</i>	2	
• <i>Biodiversity management</i>	2	
Quantification of the natural resources		3
• <i>Forest mensuration and forest inventory (3h Field trip)</i>	4	
• <i>Introduction to landscape analysis and modeling</i>	2	
Biodiversity analysis methods		3
<i>Biodiversity analysis methods: community and populations (8h Field trip)</i>	6	
Geomatics applied to environmental management		3
<i>Geomatics and applied remote sensing</i>	6	
Wood		3
• <i>Wood science</i>	4	
• <i>Timber anatomy and identification</i>	2	
	30 ECTS	
* Please note: semester 3 of the double degree programme =semester 1 of the 1 st year of the ULiège master programme		

Semester 4 (end of January-end of June or end of August/early September in case of resit)

Title	ECTS	Semester*
Core curriculum		4
• <i>Practice of specialized English for bioengineers: part 2</i>	4	4
• Portfolio	2	4
Economics and environmental law		4
• <i>Forestry law and environmental law</i>	2	
• <i>Forest and natural resources economics</i>	2	
• <i>Forest products supply chain</i>	2	
Basic Forest Management Principles		4
• <i>Sustainable management of tropical forests</i>	3	
• <i>Multifunctional management of forests</i>	3	
Forestry		4
• <i>Site analysis and valuation</i>	3	
• <i>Expertise in silviculture (21h Field trip)</i>	3	
Management of natural ecosystems and landscapes		4
• <i>Management of large fauna in temperate climate (8h Field trip)</i>	2	
• <i>Ecological networks (16h Field trip)</i>	2	
• <i>Participatory management of natural environments (2h seminar, 6h Field trip)</i>	2	
		30 ECTS
* Please note: semester 4 of the double degree programme =semester 2 of the 1 st year of the ULiège master programme		

3.- Students will continue their fifth semester (third year) of master in ULiège (host University) (total 30 ECTS).

Semester 5

Final dissertation and training programme		Semester
• <i>Internship and professional relations</i>	12	5
• <i>Final dissertation</i>	18	5
	30 ECTS	

Final thesis

The students will elaborate and defend their Final Thesis (FT) / Diploma Thesis (DT), of 18 ECTS, in the host University in the fifth semester (first semester of the 3rd year).

The students elaborate and submit only one FT/DT in the host University according to that University's rules.

The FT/DT is assigned, elaborated, evaluated and defended in the host University (Article 3 A, B, item 2). The host University appoints the supervisor and the home University the consultant, who will cooperate in the process of FT/DT elaboration.

ETSIMFMN-UPM students at ULiège will write their final work in French or English. The final work must comply with norms and criteria valid at the host University and be accompanied by an abstract of a maximum of three pages in the language of the home University.

The FT/DT is defended before a committee composed of teachers and/or external staff. At least one member of the committee must come from the home University.