

Master Earth Sciences - Tracks GED, EM & FPES

MSc Earth Sciences 2021-2022 Year 1																
Year 1 (semester 1)					Year 1 (semester 2)											
Period 1		Period 2		Period 3	Period 4		Period 5		Period 6							
September	October	November	December	January	February	March	April	May	June							
Geo-Ecological Dynamics	Vulnerability Assessment of Geo-Ecosystems (12 EC)		Environments Through Time (6 EC)		Geo-ecological Systems in a Changing World: Carbon, Nitrogen and Pollutants (6EC)		Soil and Land Degradation (6EC)		Master Thesis Research Earth Sciences 2* (30 EC)							
									Literature Review* (12 EC)		Metropole Ecology (6EC)		Field Course Geocological Systems (12EC)			
									GIS/RS Science in Ecosystem Dynamics (6EC)		Elective		Science-Based Geo-Ecological Management (6EC)		Climate Change (6EC)	
									Environmental Measuring Techniques (6EC)							
	Profesional Skills (2 courses of 1,5 EC each)															
Research Workshop (3 EC)																
Future Planet Ecosystem Science	Vulnerability Assessment of Geo-Ecosystems (12 EC)		Grand Challenges of Human-Ecosystem Interactions (6EC)		Complexity and Simplicity: Science in the 21st Century (6EC)		Analysis and Modelling Lab (6EC)		Master Thesis Research Earth Sciences 2) (30 EC)							
									Literature Review* (12 EC)		Metropole Ecology (6EC)		Science-Based Geo-Ecological Management (6EC)		Research Proposal Earth Sciences (6EC)	
	Profesional Skills (2 courses of 1,5 EC each)															
Research Workshop (3 EC)																
Environmental Management	Vulnerability Assessment of Geo-Ecosystems (12 EC)		Energy and Climate Change, Science, Policy and Economics (6EC)		Elective		GIS/RS Science in Ecosystem Dynamics (6EC)		Elective		Elective		Elective			
			Integrated Coastal Dune Management (6EC)				System Innovation and Transition Managment I (6EC)									
	Profesional Skills (2 courses of 1,5 EC each)															
Research Workshop (3 EC)																
MSc Earth Sciences 2021-2022 Year 2																
Period 1	Period 2			Period 3	Period 4		Period 5		Period 6							
GED	Elective or Literature Review		Research Proposal Earth Sciences (6EC)		Master Thesis Research Earth Sciences 1 (42 EC)											
	Profesional Skills (2 courses of 1,5 EC each)															
	Research Workshop <i>continued</i> (3 EC)															
FPES	Master Thesis Research ES 2, Literature Review or Elective			Master Thesis Research Earth Sciences 1 (42 EC)												
	Profesional Skills (2 courses of 1,5 EC each)															
	Research Workshop <i>continued</i> (3 EC)															
EM	Internship (18-24 EC)			Research Proposal Earth Sciences (6EC)		Master Thesis Research Earth Sciences 1 (30 EC)										
	Profesional Skills (2 courses of 1,5 EC each)															
	Research Workshop <i>continued</i> (3 EC)															

Mandatory courses and individual projects are fixed in the periods mentioned. Research Workshop meetings are about once a month. Electives and free electives are not fixed, but can be planned by the student.

* Constrained choice FPES & GED: choice between Literature Review (12 EC) and Master Thesis 2 (30 EC)
 Profesional Skills: choice of 2 courses of 1,5 EC each (out of 6 courses, given in various periods)

Electives

All mandatory courses from one track can be followed as elective courses in other tracks. They are pre-approved as electives by the Examinations Board of the programme. In addition, the courses below can be followed as (pre-approved) electives.

Period 1	Period 2		Period 3	Period 4		Period 5		Period 6		
			Environmental Chemistry (6EC)			Field Course Geocological Systems (12EC)				
			Soil and Land Degradation (6EC)	GIS/RS Science in Ecosystem Dynamics (6EC)		Metropole Ecology (6EC)		Science-Based Geo-Ecological Management (6EC)		Climate Change (6EC)
				Environmental Measuring Techniques (6EC)						