



## Study programme

This table lists all the modules offered in the EMAE Masters Course study programme and gives the following informations: **Code**, **Title**, teaching language(s): en-fr-de-pt; **Schedule** and **Coordination** (i.e. where and when the course is delivered and who is convening the organisation (UP: Université de Poitiers – UC: Universidade de Coimbra – CAU: Christian-Albrechts University in Kiel – UEA: University of East Anglia in Norwich); if the module is **compulsory** (C) or **elective** (E); **teaching volume** and number of **ECTS**. Further details are available in the catalogue of units on the EMAE website: [http://www.master-emaë.eu/EMAë\\_catalogue.php](http://www.master-emaë.eu/EMAë_catalogue.php). The choice of elective module is asked during the first period of the programme, not during the application process.

Code	Units of First Year	Coord	Kind	Volume	ECTS
<b>Period P0</b>	<b>Welcome period in Poitiers (September, Year 1)</b>	<b>UP</b>		<b>30</b>	<b>0</b>
	<i>Integrative period - Inaugural session</i>	<b>UP</b>			
	<i>EMAë Farewell congress (see period P6 below)</i>	<b>UP</b>			
UPO-001	Intensive course in French language	UP	E	30	0
<b>Period P1</b>	<b>Poitiers (September to December, Year 1)</b>	<b>UP</b>	<b>C</b>	<b>140</b>	<b>14</b>
UPO-100	Language training in German, Portuguese or French and e-learning project	UP	C	20	2
UPO-101	Multivariate Statistics & Data Analysis in Ecology (en)	UP	C	30	3
UPO-102	Basics of Population Genetics & Evolutionary Ecology (en)	UP	C	30	3
UPO-103	Animal Strategies & Basics in Behavioural Ecology (en)	UP	C	30	3
	<i>One module has to be selected from the list below:</i>		<b>C</b>	<b>30</b>	<b>3</b>
UPO-104	Basics of Ecosystem Analysis (en)	CAU	E	30	3
UPO-105	Environmental Physiology and Toxicology (en)	UC	E	30	3
<b>Period P2</b>	<b>Norwich (January to March, S2-Y1)</b>	<b>UEA</b>	<b>C</b>	<b>160</b>	<b>16</b>
UEA-201	Ecological modelling (en)	UEA	C	40	4
UEA-202	Ecological consequences of climate change (en)	UEA	C	30	3
	<i>A total amount of 9 ECTS has to be composed from the list below:</i>		<b>C</b>	<b>90</b>	<b>9</b>
UEA-203	Behavioural Ecology: From theory to practical analysis (en)	UEA	E	60	6
UEA-204	Communities, Ecosystems and Macro-Ecology (en)	UEA	E	60	6
UEA-205	Resource Development and Conservation (en)	UEA	E	60	6
UEA-206	Evolutional Biology and Conservation genetics (en)	UEA	E	60	6
UEA-207	Environmental pollution, Toxicology and Chemistry (en)	UEA	E	60	6
UEA-X01 *	Conservation genetics (en) (also offered in P4c)	UEA	E	30	3
UEA-X02	Climate Change: Science, Society and Policy (en) (also offered in P4c)	UEA	E	60	6
UEA-X03	Restoration Ecology (en) (also offered in P4c)	UEA	E	30	3
UEA-X04 *	Introduction to GIS (en) (also offered in P4c)	UEA	E	30	3
<b>Period P3a</b>	<b>Coimbra (April to July, Year 1)</b>	<b>UC</b>	<b>E</b>	<b>300</b>	<b>30</b>
UCO-301	Environmental Quality Assessment (en)	UC	C	60	6
UCO-302	Laboratory & Fields studies in Ecology – Practical (en)	UC	C	60	6
UCO-303	Bio-monitoring & Biodiversity Management (en)	UC	C	60	6
UCO-304	Stream Ecology and Monitoring (en)	UC	C	60	6
UCO-305	Ecotoxicology & Ecological Risk Assessment (en)	UC	C	60	6
<b>Period P3b</b>	<b>Kiel (April to July, Year 1)</b>	<b>CAU</b>	<b>E</b>	<b>300</b>	<b>30</b>
	<i>List 1: Two modules have to be selected</i>		<b>C</b>	<b>120</b>	<b>12</b>
CAU-301	Terrestrial Ecosystems – Field Studies (en)	CAU	E	60	6
CAU-302	Coastal & Marine Ecosystems – Field Studies (en)	CAU	E	60	6
CAU-303	Freshwater & Wetland Systems – Field Studies (en)	CAU	E	60	6
CAU-304	Long-Term Development of Landscapes – Field Studies (en)	CAU	E	60	6
	<i>A total amount of 18 ECTS has to be composed from the list below:</i>		<b>C</b>	<b>180</b>	<b>18</b>
CAU-305	Digital Spatial Analysis – Practical Exercises (en)	CAU	E	60	6
CAU-306	Modelling of Aquatic Ecosystems – Practical Exercises (en)	CAU	E	60	6
CAU-307	Economics Aspects of Environmental Management (en)	CAU	E	60	6
CAU-308	Integrated Management of Rural & Woodland Regions (en)	CAU	E	60	6
CAU-309	Ecology of Soils – Practical Exercises (en)	CAU	E	60	6
CAU-310	Current Research Topics in Marine Ecology I (en)	CAU	E	40	4
CAU-311	Environmental Chemistry (en)	CAU	E	40	4
CAU-312	Applied aquatic ecology (en)	CAU	E	90	9
CAU-X01	Aquatic ecology (en) (also offered in P4d)	CAU	E	90	9
CAU-X02	Methods in ecology (en) (also offered in P4d)	CAU	E	90	9
CAU-X03	Evolution of plant diversity (en) (also offered in P4d)	CAU	E	90	9
CAU-X04	Ecotoxicology (en) (also offered in P4d)	CAU	E	40	4

\*: invalid combination

(to be continued)

Code	Units of Second Year	Coord	Kind	Volume	ECTS	
<b>Period P4a</b>	<b>Coimbra (September to January, Year 2)</b>	<b>UC</b>	<b>E</b>	<b>300</b>	<b>30</b>	
UCO-401	Advanced data Analysis in Ecology (en)	UC	C	60	6	
UCO-402	Biochemical & Molecular Techniques in Ecology (en)	UC	C	60	6	
UCO-403	Laboratory & Field Studies in Ecology II (en)	UC	C	60	6	
UCO-404	Population Ecology (en)	UC	C	60	6	
UCO-405	Remote Sensing and GIS Techniques (en)	UC	C	60	6	
<b>Period P5a</b>	<b>Coimbra (February to August, Year 2)</b>	<b>UC</b>	<b>E</b>	<b>60</b>	<b>30</b>	
UCO-501	Project Management (en)	UC	C	60	6	
UCO-502	Master Thesis: Research Project & Dissertation	UC	C	500*	24	
<b>Period P4b</b>	<b>Poitiers (September to January, Year 2)</b>	<b>UP</b>	<b>E</b>	<b>300</b>	<b>30</b>	
UPO-400	Miscellaneous Skills (fr)	UP	E	30	0	
UPO-401	Advanced research seminars (en-fr)	UP	C	54	6	
UPO-402	Statistics & GIS tools (fr)	UP	C	54	6	
<b>Stream 1: Environmental Management</b>			<b>E</b>	<b>162</b>	<b>18</b>	
UPO-403	Natural resources & Natural areas (fr)	UP	C	54	6	
UPO-404	Ecosystems management (fr)	UP	C	54	6	
UPO-405	Environmental Policies & Economics (fr)	UP	C	54	6	
<b>Stream 2: Evolutionary Ecology</b>			<b>E</b>	<b>162</b>	<b>18</b>	
UPO-406	Symbiotic systems (en-fr)	UP	C	54	6	
UPO-407	Evolutionary Strategies (en-fr)	UP	C	54	6	
UPO-408	Evolutionary Genetics (en-fr)	UP	C	54	6	
<b>Period P5b</b>	<b>Poitiers (February to August, Year 2)</b>	<b>UP</b>	<b>E</b>	<b>60</b>	<b>30</b>	
UPO-501	Project Management (fr)	UP	C	60	6	
UPO-502	Master Thesis: Research Project & Dissertation	UP	C	500*	24	
<b>Period P4c</b>	<b>Norwich (September to January, Year 2)</b>	<b>UEA</b>	<b>E</b>	<b>300</b>	<b>30</b>	
UEA-401	Issues in Conservation (en)	UEA	C	30	3	
UEA-402	Ecological Survey Methods (en)	UEA	C	30	3	
UEA-403	Biodiversity Conservation and Human Society (en)	UEA	C	60	6	
UEA-404	Practical Conservation (en)	UEA	C	30	3	
<b>A total amount of 15 ECTS has to be composed from the list below:</b>			<b>C</b>	<b>150</b>	<b>15</b>	
UEA-405	Multivariate statistics (en)	UEA	E	30	3	
UEA-406	Introduction to the Economics of the Environment (en)	UEA	E	60	6	
UEA-X01*	Conservation genetics (en) (also offered in P2)	UEA	E	30	3	
UEA-X02	Climate Change: Science, Society and Policy (en) (also offered in P2)	UEA	E	60	6	
UEA-X03	Restoration Ecology (en) (also offered in P2)	UEA	E	30	3	
UEA-X04*	Introduction to GIS (en) (also offered in P2)	UEA	E	30	3	
<b>Period P5c</b>	<b>Norwich (February to August, Year 2)</b>	<b>UEA</b>	<b>E</b>	<b>30</b>	<b>30</b>	
<b>Stream 1: Biology - Ecology</b>			<b>E</b>	<b>30</b>	<b>30</b>	
UEA-501	Research Skills for Ecologists (en)	UEA	C	30	3	
UEA-502	Master Thesis: Research Project & Dissertation	UEA	C	500*	27	
<b>Stream 2: Environmental Sciences</b>			<b>E</b>	<b>30</b>	<b>30</b>	
UEA-503	Research Skills (en)	UEA	C	30	3	
UEA-504	Master Thesis: Research Project & Dissertation	UEA	C	500*	27	
<b>Period P4d</b>	<b>Kiel (September to January, Year 2)</b>	<b>CAU</b>	<b>E</b>	<b>300</b>	<b>30</b>	
CAU-401	Theory of ecosystem dynamics and decomposing systems (en)	CAU	C	60	6	
CAU-402	Soil ecology: microbial and invertebrate decomposing systems (en)	CAU	C	60	6	
<b>A total amount of 18 ECTS has to be composed from the list below:</b>			<b>C</b>	<b>180</b>	<b>18</b>	
CAU-403	Identifying Chemical Key Processes in Ecosystems (en)	CAU	E	60	6	
CAU-404	Principles of Environmental Economics & Environmental Planning (en)	CAU	E	60	6	
CAU-405	Basics of Aquatic Ecology (en)	CAU	E	60	6	
CAU-406	Evolution, Biodiversity and Conservation (en)	CAU	E	60	6	
CAU-407	Current topics in marine ecology II (en)	CAU	E	60	6	
CAU-408	Current topics in benthic ecology II (en)	CAU	E	60	6	
CAU-409	Advanced modelling (en)	CAU	E	40	4	
CAU-X01	Aquatic ecology (en) (also offered in P3b)	CAU	E	90	9	
CAU-X02	Methods in ecology (en) (also offered in P3b)	CAU	E	90	9	
CAU-X03	Evolution of plant diversity (en) (also offered in P3b)	CAU	E	90	9	
CAU-X04	Ecotoxicology (en) (also offered in P3b)	CAU	E	40	4	
<b>Period P5d</b>	<b>Kiel (February to August, Year 2)</b>	<b>CAU</b>	<b>E</b>	<b>60</b>	<b>30</b>	
CAU-501	Project Management (en)	CAU	C	60	6	
CAU-502	Master Thesis: Research Project & Dissertation	CAU	C	500*	24	
<b>Period P6</b>	<b>Poitiers (Early September, Year 2)</b>	<b>UP</b>	<b>C</b>			
<b>EMAE Farewell Congress – Degree awarding – Closure session</b>			<b>UP</b>			
				<b>Total</b>	<b>1000</b>	<b>120</b>

\*: The research project and Dissertation is at least approximate to 30 hours per week for 16 weeks -> 500 hours)

(last update: Wednesday, 28 October 2009)