Synopse

Erster Beschluss des Fachbereichs 08 – Biologie und Chemie - vom 26.04.2013 zur Änderung

der Speziellen Ordnung für den Master-Studiengang "Global Change: Ecosystem Science and Policy" des Fachbereichs 08 – Biologie und Chemie und der School of Biology and Environmental Science des University College Dublin vom 27.07.2012

I. In der Anlage 2 (Modulbeschreibungen) erhält der Modulplan folgende Fassung:

UCD	Core modules	Code	Credits
	Core Skills for Research	BIOL40010	5
	Plant-Atmosphere Climate Interaction	BOTN40180	5
	Global Change – Introduction	ENVB40130	5
	Science and Policy Society	BIOL40140	5
	Environmental Impact Assessment & Strategic Environmental	ENVB40040AESC4008	
	Assessment	θ	5
	European Environmental Policy	PEP40560	<u>5</u>
	Optional modules		5
	a) Biodiversity	ZOOL40010	<u>5</u>
	b) Bioassessment of Freshwaters Resources	ENVB40120	<u>5</u>
	c) Peatland and Environmental Change	ENVB40040	<u>5</u>
	d) Public policy & Environment	PEP30140	
	e) Marine Population Biology	ZOOL40050	
	d) Global Change and green issues	BIOL40110	<u>5</u>
	Total CP in UCD for taught modules		<u>35</u> 30

JLU	Core modules		Code	Credits
	Global Change - Advanced Technique	9	M-GC-GCE	4
	Plant-Soil-Atmosphere Interactions		M-GC-PSA	<u>5</u> 6
	Ecosystem and Model development		M-GC-ÖUM	3
	Policy Consultancy		M-GC-PBR	6
	Resource Economics and Environmen	tal Management	M-GC-REM	6
	Biodiversity Informatics		M-GC-BDI	3
	Palaeoclimatology		M-GC-PAL	6
	Optional modules			6
	a) Scientific Presentations in Ecology		M-GC-SEM2	<u>3</u>
	b) Evolutionary Biology		M-GC-EVO	<u>3</u>
	c) Climate Change und Human - Food	Security and Health	M-GC-CCH	<u>3</u> <u>6</u> <u>3</u>
	d) Global Change – Advanced Techniq	<u>ues</u>	M-GC-GCE	<u>3</u>
	Total CP in JLU for taught modules			<u>35</u> 40
	Module 'Work Placement'	UCD		20
	Module 'Research Project/Thesis'	UCD		30
	Total Number of CP			120

II. In der Anlage 2 (Modulbeschreibungen) erhält das Modul Science and Society folgende Bezeichnung:

BIOL40140	Science and PolicySociety	Winter	5 CP
Title of module	Science and PolicySociety		
Code of module	BIOL40140		

III. In der Anlage 2 (Modulbeschreibungen) wird das Modul European Environmental Policy aufgenommen:

under the following headings: i) The need for EU environmental Policy It will examine the background and context to EU Environmental Policy ard determine when the environment became an EU concern and examine the influence of issues such as acid rain, Climate Change and CFCs in Ozone layed depletion as a precursor to Environmental Policy. Trans-Boundary issues will be examined where relevant (e.g. air pollution). ii) Environmental Legislation The module will then focus on legal basis for EU Environmental Policy, such a Treaties and the structure of DG Environment. It will also cover some of the specific environmental legislation that covers the following areas: Air Qualit Noise; Land use; Nature and biodiversity; energy; waste; water and how the policies fit with national policies. iii) Policy Instruments It will examine the types of policy instruments that can be employed in relation to EU Environmental Policy such as market based instruments (e.g. EU Emission Trading Scheme, Environmental Tax Reform etc.) iv) EU Environmental Policy in a global context Finally, there will be a discussion of EU Environmental Policy in a global contex and outline where the EU is leading the way in global terms in relation to Gree Policy initiatives. This includes commitments under treaties such as the Kyon	PEP40560	European Environmental Policy	Winter	<u>5 CP</u>			
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Policy initiatives. This includes commitments under treaties such as the Kyo		Finally, there will be a discussion of EU Environmental Policy in a global context					
		and outline where the EU is leading the way in global terms in relation to Green					
protocol		Policy initiatives. This includes commitments under treaties such as the Kyoto					
protocoi.		protocol.					
<u>Class format</u> <u>Lecture and practice</u>	<u>Class format</u>	Lecture and practice					

Workload	Credit-Points: 5 CP			Credit-Points:	5 CP	
containing:		<u>A Course</u>		B Self-study	<u>C examination</u>	<u>total</u>
	'-	<u>a presence</u>	<u>b</u>			
			preparation/post			
			processing, LN			
	<u>Lecture</u>	<u>24</u>				
	<u>Specified</u>	<u>12</u>				
	<u>Learning</u>					
	Activities					<u> </u>
	-	26		64		400
	<u>Total</u>	<u>36</u>	(===()	<u>64</u>		<u>100</u>
Examination format	<u>Assignmer</u>	nt (25%), exami	<u>nation (75%)</u>			
Grading						
Repetition						
<u>Availability</u>	Winter, ea	<u>ch year</u>				
<u>Duration</u>	one semes	<u>ster</u>				
Acceptance capacity	<u>None</u>					
Language of	<u>English</u>					
<u>instruction</u>						
<u>Literature</u>						
<u>Notes</u>						

IV. In der Anlage 2 (Modulbeschreibungen) wird das Modul Global Challenges and Green Issues aufgenommen:

BIOL40110	Global C	hallenges a	nd Green Issues	1	<u>Winter</u>	<u>5 CP</u>	
<u>Title of module</u>	Global C	<u> hallenges a</u>	nd Green Issues				
Code of module	BIOL4011	BIOL40110					
Faculty / study	UCD, Biolo	UCD, Biology & Environmental Science					
program / Institution							
used in StG / Sem.	<u>1 Sem., M</u>	Sc Global Cha	nge				
Person in charge	<u>Dr Jonatha</u>	an Yearsley					
<u>Prerequisites</u>	<u>None</u>						
Course aims	On successful completion of the course, students will have a broad						
			ontemporary Earth	<u>Science issues</u>	relating to er	nergy, the	
	environme	ent, climate ch	ange and policy.				
Course content	<u>A module that overviews global challenges, green issues, policy an</u>						
	multidisciplinary research themes associated with the Structured PhD						
			arth Institute (http:/				
			a seminar series (ro				
			nd the private secto	or. Each semin	ar will have as	<u>sociated</u>	
Class formest	reading m	ateriai.					
Class format	Seminar			Cuadit Dainta	. F. CD		
Workload		A Causas		Credit-Points		امدمد م	
containing:		A Course	T _h	<u>B Self-study</u>	<u>C examinati</u>	on total	
		<u>a presence</u>	b proparation/post				
			preparation/post processing, LN				
	Seminar	14	processing, Liv				
	<u>Seminal</u>	14					
	Total	14		70		84	
Examination format						04	
Grading	ividitiple	moice Questic	minane. Muniple Cit	JICE (100 /8)			
Repetition							
Repetition	_1						

Availability	Winter
<u>Duration</u>	This module will only run if numbers exceed 20. This will be confirmed in early
	October.
	The seminars will take place over 3 consecutive days at the end of the first
	semester (typically the 1st week in December).
Acceptance capacity	<u>None</u>
Language of	<u>English</u>
<u>instruction</u>	
<u>Literature</u>	
Notes	

V. In der Anlage 2 (Modulbeschreibungen) entfällt das Modul Public Policy and Environment:

PEP30140	Public Policy and Environment	Winter	5 CP
Title of module	Public policy and environment		
Code of module	PEP30140		
Faculty / study	UCD, School of Geography, Planning & Environmental F	Policy	
program / Institution		,	
used in StG / Sem.	1 Sem., MSc Global Change		
Person in charge	Dr Mark Scott		
Prerequisites	None		
Course aims	The capacity to develop environmental policy choices, to a provide guidance in their implementation is one for which However, environmental policy and politics have become into a growing shift from government to governance, and complex economic, social and political changes, which have which policy is made and delivered. These change acknowledgement of the multi-faceted nature of public printer-connectedness of policy decisions taken at the local levels and the influence of multi-level EU governance, the policy delivery and heterogeneous public service culture module addresses the interaction of politicians, experts, into the formulation of environmental policy. The module is diverted in the formulation of environmental policy. The module is diverted in the formulation of environmental policy. The module is diverted in the module will also introduce students to key conceincluding sustainable development, the polluter pays principle, and environmental resilience. Part 2 Environmental analysis of the interplay of experts, politicians, markets environmental arena. Finally, this part of the module will policy making processes, including the 'politics of environment and Society: this will focus on the growing included in environmental policy processes, and will focus movements and green politics, social equity and environment policy approaches. Part 4 Environmental Policy Case Studies.	there is a growing creasingly complex haracterised by ire transformed the gestinctude—an olicy and administration of the increasing fragments. Within this coerest networks and vided into four commine the emergent the roots of enviolation of the public of	g demand. , reflecting hereasingly manner in increasingly manner in increasing ration, the ternational tertation of ntext, this citizens in nponents: nee of the ternamental s. This part thatal Policy, cautionary and Policy and Pol
	of environmental policy in practice at a range of spatial scal the urban environment and local land-use conflicts.	es, meiuding enma	te change,
Course content	What will I learn?		
	On successful completion of the module you should be able 1. Demonstrate an understanding of the political and environmental policy; 2. Critically appraise concepts and making, accountability and representation within governance how these influence environmental policy; 3. Apply an process to assess the nature and purpose of environmental understanding of environmental citizenship and the role	I public policy controlled theories surrounce processes, and understanding of all policy; 4. Demo	ling policy understand the policy unstrate an

	environment	al debates.				
Class format	Lecture					
Workload				Credit-Points	: 5 CP	
containing:		A Course		B Self- study	te	otal
		a presence	b preparation/pos	ŧ		
	Lecture	22				
	Tutorial					
	Practical					
	Total	22		78	1	.00
Examination format Grading Repetition		assignment (25% rassessment	6) and examination (7.	5%)		
Availability	Winter, eac	h year				
Duration	one semest	er				
Acceptance capacity	None					
Language of instruction	English					
Literature						
Notes						

VI. In der Anlage 2 (Modulbeschreibungen) entfällt das Modul Marine Population Biology:

20040050	Marine Population Biology	Winter	5 CP			
Title of module	Marine Population Biology					
Code of module	20040050					
Faculty / study	UCD, Zoology					
program / Institution						
used in StG / Sem.	1 Sem., MSc Global Change					
Person in charge	Dr Jon Yearsley					
Prerequisites	None					
Course aims	Aim:					
	Nowadays, as 70% of the world's fisheries are over-exploited, many of which					
	have undergone dramatic collapses, there is the urge for scientists, fishery					
	managers and policy-makers to take significant actions. The understanding of					
	patterns of distribution, migration, life-history and spatio-temporal structure of					
	marine fish populations is key to our ability to manage and conserve declining					
	stocks and their ecosystems. This is also fundamental for predicting evolutionary					
	responses to continued harvesting and environmental change. This course					
	covers the main aspects of the ecology and population genetics of marine fish,					
	with particular focus on state-of-the-art methods employed for fish stock					
	identification.					
Course content	What will the student learn?					
	- Awareness of the importance of understanding population structure					
	and life-histories in the marine environment;					
	- Understanding the main problems associated with the study of marine					
	fish populations;					
	- Essential knowledge of applied population and ecological genetics;					
	 Methods employed in the identification of fish stocks; 					

	- Basic t biolog		rpresenting a resec	arch propo	sal in fish popula	ition
Class format	Lecture and pra	etice				
Workload				Credit-Poir	nts: 5 CP	
containing:		A Course		B Self- study	E examination	total
		a presence	b preparation/post processing, LN			
	Lecture	10				
	Conversation class	3				
	Total	13		95		108
Examination format Grading Repetition	2 essay type qu grant proposal		chosen among 3 (2	2 hours) (8	0%), presentatio	n of a
Availability	Winter, each ye	ar				
Duration	one semester					
Acceptance capacity	None					
Language of instruction	English					
Literature						
Notes						

VII. In der Anlage 2 (Modulbeschreibungen) erhält das Modul Plant-Soil-Atmosphere Interactions folgende Fassung:

M-GC-PSA	Plant-Soil-Atmosphere Interactions	Summer	<u>5</u> 6 CP				
Title of module	Plant-Soil-Atmosphere Interactions						
Code of module	1-GC-PSA						
Faculty / study program / Institution	08/ Biology/ Department of Plant Ecology						
used in StG / Sem.	2 Sem., MSc Global Change, MSc Biology						
Person in charge	Prof. Christoph Müller, PhD.						
Lecturers	Müller, Grünhage, Koyro						
Prerequisites	None						
Course aims	Students - have good knowledge of ecophysiology, Sysecology, - know the most important methods in auteromated and the community and ecosystem level, - have the ability to organize on their own cure have the ability to plan ecological experiment evaluate, discuss and present them adequate.	cology and synecology and nutrient cycles of the color of	gy, on ature, sults and				
Course content	 Photosynthesis of plants and communities factors and climate change (e.g. increasing C and N transformations in terrestrial ecosy grassland). Energy fluxes in permanent grassland. Interactions between vegetation and soil. Statistical method in aut- and synecology. 	CO ₂ concentrations).				

Class format	lectures (25%), seminar (12.5 %), practical (62.5%)						
Workload	<u>150</u> 180 h				Credit-Points: 65		
containing:		A Course			lf-study	С	Total
						examination	
		a presence	b				
			preparation/post				
			processing, LN				
	Lecture	20	<u>20</u> 37				
	Seminar	4	<u>3</u> 5				
	Practice	40	<u>63</u> 74				
	Total	64	<u>86</u> 116				<u>150</u> 180
Examination format	Oral presentation (30%), report (100 70%)						
Grading							
Repetition							
Availability	Summer,	Summer, each year					
Duration	one seme	one semester					
Acceptance capacity	None						
Language of	English						
instruction							
Literature			·			•	
Notes	Information concerning modules and literature: see board of information / Date:						
	see university calendar						

VIII. In der Anlage 2 (Modulbeschreibungen) erhält das Modul Global Change: advanced techniques folgende Fassung:

M-GC-GCE	Global Change: advanced techniques	Summer	<u>3</u> 4 CP			
Title of module	Global change ecology: stable isotopes and other ac	Ivanced techniques	<u> </u>			
Code of module	M-GC-GCE					
Faculty / study program / Institution	08/ Biology/ Department of Plant Ecology					
used in StG / Sem.	2 Sem., MSc Global Change					
Person in charge	Prof. Christoph Müller, PhD.					
Lecturers	Müller, Grünhage					
Prerequisites	None					
Course aims	 have knowledge of current global change issues, know the current methods for the investigation of global change effects of ecosystems, have the ability to organize on their own current scientific literature, have the ability to plan ecological experiments, to interpret results and evaluate, discuss and present them adequately. 					
Course content	 Current state-of-the-art scientific knowledge on Global Change Science (e.g. Paleoclimatology, Indicator-Proxies, current Trends, Intergovernmental Panel on Climate Change). Quantification of global matter cycles using stable isotope based on the example of a permanent grassland. Automated methods to quantify gas fluxes and the abiotic factors and their interactions that influence processes in permanent grassland. Positive feedback effect of global change on biosphere processes (e.g. phenology). 					
Class format	lecture (25%), seminar (12.5%), practical (62.5%)					
Workload	<u>90</u> 120 h Cred	it-Points: <u>3</u> 4				

containing:		A Course		B self-	С	Total	
				study	examination		
		a presence	b preparation/post				
			processing, LN				
	Lecture	10	16				
	Seminar	2	4				
	Practice	20	38				
	Essay				30		
	Total	32	58		30	<u>90</u> 120	
Examination format	Oral prese	Oral presentation (30%), report (<u>70</u> 40%) , essay (30%)					
Grading, Repetition							
Availability	Summer,	Summer, each year					
Duration	one seme	one semester					
Acceptance capacity	None	None					
Language of	English						
instruction							
Literature							
Notes	Information concerning modules and literature: see board of information / Date:						
	see unive	rsity calendar					

IX. In der Anlage 2 (Modulbeschreibungen) erhält das Modul Research Project Thesis folgende Fassung:

BIOLXXXBIOL40130	Research Project Thesis Sum					30 CP		
	T							
Title of module	Research Project Thesis							
Code of module	BIOLXXXBIOL40130							
Faculty / study	UCD, Biology	UCD, Biology						
program / Institution								
used in StG / Sem.	3 Sem., MSc G							
Person in charge	Dr Florence Re	enou-Wilson ,	Prof. Dr. Christoph	Müller (ch	airman of exai	mination		
Prerequisites	None	None						
Course aims	The research project is an important element of the Masters in Global Change as it involves the planning, execution and communication of a research question that the student wishes to investigate in depth. Students select individual projects from a list provided by the module co-ordinator, following consultation with the selected supervisor. During the third semester, a period of 16 weeks will be devoted entirely to the project work. Students will maintain regular contact with their supervisor, who will assist by guiding the project, reading and commenting on written work, and providing advice as necessary.							
Course content	What will the student learn? During the course of the research project, the student will: - develop independent research and organisational skills; - develop technical competence in the specific research area and learn to synthesise information and write a scientific report.							
Class format	Research thes	is						
Workload	<u>600</u> 750 h	600 750 h			Credit-Points: 30			
containing:		A Course		B self-	С	Total		
				study	examination			
		a presence	b preparation/post processing, LN					
	Autonomous student		600750					
	learning							

	-						
	Total		600 750			600 750	
Examination format Grading	T		arch project the st		=		
Repetition	the format of a scientific paper, which will be graded by a supervisor and a second assessor. The format for grading will be as follows:						
	Statement of p	problem & lit	erature review (2	0%)			
	State	ment of aims	and objectives (1	0%)			
	Meth	odology		(20%	6)		
	Treat	ment of resu	lts	(15%	6)		
	Discu	ssion		(15%	6)		
	Refer	encing/Biblic	graphy (1	0%)			
	Other	· (layout/forr	natting/proof-read	ing) (10%	6)		
Availability	each year						
Duration							
Acceptance capacity							
Language of	English			•			
instruction							
Literature							
Notes				•			

X. In der Anlage 2 (Modulbeschreibungen) erhält das Modul Work Placement folgende Fassung:

BIOLXXXBIOL40120	Work Placement	Summer	20 CP				
Title of module	Work Placement						
Code of module	BIOL40120						
Faculty / study program	UCD, Biology						
/ Institution							
used in StG / Sem.	1 Sem., MSc Global Change						
Person in charge	Dr Florence Renou-Wilson						
Prerequisites	None						
Course aims	This Masters programme offers students the opportunity to spend minimum 6 weeks in a real-life employment. The student will work in a setting that reflects his/her interests as an Environmental professional. Placements may vary considerably but in general terms the students will be placed in industrial, government, non-government or research environment where they will obtain a breadth of practical experience to complement their degree programme. Employers welcome 'transferable skills' acquired during a work placement such as communication, numeracy, use of IT, group work and time management to name but a few. The students will experience workplace culture making them more effective employee following graduation. The work experience is defined as a learning experience incorporating mentoring, professional supervision in which work is viewed from critical and evaluative perspectives much in contrast to the notion of routine or regular work.						
Course content	What will the student learn? In terms of broad learning outcome, at the end of this module, the students will:						
	-have increased their ability to relate academic theory to the work environment						
	-have developed identified work related skills						
	-be able to critically evaluate their learning from the placement -have enhanced their career knowledge						
	-have planned, carried out, evaluated and reported on a project.						
	In particular they should have acquired skills to be able to: From the Work Placement experience, the students should be able to:						

-Evaluate the interaction between policies and the quality of the environment in its multiple biotic, abiotic and cultural-economic dimensions. -Describe some aspect of the environment which is impacted by global change and understand the implications and possible mitigation and adaptation measures. -Demonstrate an understanding of professional practice in some of the following areas: scientific analyst, policy adviser, researcher, environmental management industries. How will the student learn? **Pre placement submission**: This involves 1) writing a CV and covering letters: 2) reflection on each application in terms of academic knowledge and related work skills; 3) analysis of skills to be gained while on placement (general knowledge and understanding; cognitive skills, subject specific skills, transferable skills) On placement: A 6 weeks contact time with employers is required. This involves 1) a log book or diary to be sent to the module co-ordinator weekly and should be based on activities and what the student has learnt from the activities (most important focus); 2) a short report on the profile of the host (to get to know an employer). Post placement: This involves 1) a final portfolio/report (whereby students should show how they have met the aforementioned learning outcomes) and 2) an oral presentation (15min with 5 min questions). The format of the final portfolio/report will be flexible depending on the skills a student may wish to develop but should incorporate observations, critical thinking, evaluation and research. It could be a typical report on a particular issue or on an aspect of the placement host (theme) or a draft paper (for publication). A minimum of 6 weeks contact time with employers is required. After the placement, students are required to submit a report (the format will be finalised depending on the skills a student may wish to develop) but should incorporate observations, critical thinking, evaluation and research. Class format Work placement Workload 400 h / 6 weeks minimum contact time with Credit-Points: 20 employer С containing: A Course B selftotal examination study a presence preparation/post processing, LN 270 work placement Report 90 270 40 90 400 Total Log book (10 %), Report/final portfolio (50 %), seminar/presentation (40 %) **Examination format** Grading, Repetition no grade: fail or pass Availability Duration 6 weeks minimum-contact time with employer. 2 weeks for report Acceptance capacity 20

Language of instruction

Notes

English