
V e r k ü n d u n g s b l a t t

der Universität Duisburg-Essen - Amtliche Mitteilungen

Jahrgang 8

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**Zweite Änderung der Prüfungsordnung
für den Master-Studiengang
Water Science
an der Universität Duisburg-Essen
Vom 01. Juni 2010**

Aufgrund des § 2 Abs. 4 und des § 64 Abs. 1 des Gesetzes über die Hochschulen des Landes Nordrhein-Westfalen (Hochschulgesetz - HG) vom 31.10.2006 (GV. NRW. S. 474), zuletzt geändert durch Gesetz vom 08.10.2009 (GV. NRW. S. 516), hat die Universität Duisburg-Essen folgende Ordnung erlassen:

Artikel I

Die Prüfungsordnung für den Master-Studiengang Water Science an der Universität Duisburg-Essen vom 30.07.2007 (Verkündungsblatt Jg. 5, 2007 S. 411), geändert durch die erste Änderungsordnung vom 25.06.2009 (VBI Jg. 7, 2009 S. 371 / Nr. 47) wird wie folgt geändert:

1. In der **gesamten Ordnung** wird jeweils in der grammatikalisch richtigen Form der Begriff „Fachbereich“ durch den Begriff „Fakultät“ und der Begriff „Fachbereichsrat“ durch den Begriff „Fakultätsrat“ ersetzt.
2. Die **Anlage 4** erhält die beiliegende Fassung.

Artikel II

Diese Ordnung tritt am Tage nach ihrer Veröffentlichung im Verkündungsblatt der Universität Duisburg-Essen - Amtliche Mitteilungen in Kraft.

Ausgefertigt aufgrund des Beschlusses des Fakultätsrates der Fakultät für Chemie vom 29.04.2010.

Duisburg und Essen, den 01. Juni 2010

Für den Rektor
der Universität Duisburg-Essen
Der Kanzler
In Vertretung
Klaus Peter Nitka

Anlage 4

Regelstudienplan

Das Lehrangebot im Master-Studiengang Chemie erstreckt sich über zwei Jahre. Das Studium umfasst Lehrveranstaltungen im Pflicht- und Wahlpflichtbereich, wie im nachfolgenden Regelstudienplan erklärt:

Master's Programme: Water Science

Module	Sem.	Total Number of Credits for Modules	Course	HPW				Credits	Category	Requirements	Exam
				L	S	P	Total				
Required Modules											
Applied Analytical Chemistry	2	5	Applied Analytical Chemistry	2	1		3	5	Advanced	none	Written exam
Applied Microbiology	2	6	Geomicrobiology	2			2	3	Advanced	none	Written exam for module
			Hygiene	2			2	3			
Biofouling, Biocorrosion	3	5	Biofouling, Biocorrosion	2	1		3	5	Advanced	none	Written exam
Chemometrics and Statistics	1	5	Chemometrics and Statistics	2	1		3	5	Advanced	none	Written exam
Environmental Microbiology	1 2	12	Environmental Microbiology	2	1		3	5	Advanced	none	Written exam for module
			Practical Course Environmental Microbiology		1	8	9	7			
Practical Analytical Chemistry	3	10	Practical Course Analytical Chemistry		1	14	15	10	Advanced	Module: Applied Analytical Chemistry	Report
Research Practical	3	10	Research Practical Course		1	14	15	10	Advanced	Practical Courses in Anal. Chemistry + Environmental Microbiology	Report
Water Chemistry	1	5	Water Chemistry	2	1		3	5	Advanced	none	Written exam and case study

Master's Programme: Water Science

Module	Sem.	Total Number of Credits for Modules	Course	HPW HPW				Credits	Category	Requirements	Exam
				L	S	P	Total				
Optional Modules Additional teaching classes can be taken following application to the examination board.											
Advanced Mass Spectrometry	2	3	Advanced Mass Spectrometry	1	1		2	3	Advanced	None	Written or oral exam
Ecology and Protection of Freshwater Ecosystems and Aquatic Organisms	2	5	Ecology and Protection of Freshwater Ecosystems and Aquatic Organisms	1	1	2	4	5	Interdisciplinary	None	Written examination, homework, oral presentation
Environmental Chemistry: Air	2	5	Environmental Chemistry: Air	2	1		3	5	Advanced	None	Written exam
Environmental Chemistry: Pollutants	1 or 3	5	Environmental Chemistry: Pollutants	2	1		3	5	Advanced	None	Written exam
Environmental Chemistry: Soil / Waste	1 or 3	5	Environmental Chemistry: Soil / Waste	2	1		3	5	Advanced	None	Written exam
Excursions	1,2 or 3	1-5	Excursions				1-5	1-5	Interdisciplinary	None	Report
Hydrochemical System Modelling	2	5	Hydrochemical System Modelling	2	1		3	5	Interdisciplinary	None	Oral exam
Management	2	6	Quality Management	1	1		2	3	Interdisciplinary	None	Written exam for module
	3		Project Management	2			2	3			
Membrane Technologies	1 or 3	3	Membrane Technologies	1	1		2	3	Interdisciplinary	None	Written exam
Metrology in Chemistry	2	2	Metrology in Chemistry	1				1	Advanced	None	Written or oral exam
Microbial Physiology	2	3	Microbial Physiology	2				3	Advanced	None	Written Exam

Master's Programme: Water Science

Module	Sem.	Total Number of Credits for Modules	Course	HPW HPW				Credits	Category	Requirements	Exam
				L	S	P	Total				
(Optional Modules continued)											
Stable Isotope Analysis	1 or 3	5	Stable Isotope Analysis	2	1		3	5	Advanced	None	Written exam and presentation
Technical Engineering Water	2 3	9	Technical Engineering Water	2	1		3	5	Interdisciplinary	None	Written or oral exam for Module
			Practical Course Technical Engineering Water			3	3	4		Lecture: Technical Engineering Water	
Wastewater Treatment	1 or 3	5	Wastewater Treatment	2	1		3	5	Advanced	None	Written exam
Water Pollution / Water Pollution Monitoring	1,2 or 3	5	Water Pollution / Water Pollution Monitoring	2		1	3	5	Advanced	None	Written or oral exam
Water – The Lecture*	2 or 4	3	Water – The Lecture	2			2	3	Interdisciplinary	None	Written exam
Optional Courses MTW3	Out of the Master's Programme Management and Technology of Water and Wastewater (MTW3) students may choose any offered module that is not already part of the Water Science curriculum										
Master Thesis											
Master Thesis	4	30	Master Thesis					30	Advanced	80 Credits	Thesis

Master's Programme: Water Science

Summary

Compulsory Courses				Analytical Chemistry Biosciences Research Practical						25			
Optional Courses										23			
Master Thesis										10			
Total										32			
										30			
										120			

*** This course can only be chosen as an optional module in the Master's Programme if the student has not already taken the subject in the Bachelor Curriculum Water Science – Wasser: Chemie, Analytik, Mikrobiologie. In unclear cases the examination board decides on approval.**

Study Plan Master of Science Water Science

Module	Course	HPW	Cr.	Exam
1st Semester				
Chemometrics and Statistics	Chemometrics and Statistics	3	5	Written exam
Environmental Microbiology	Environmental Microbiology	3	5	Written exam
Water Chemistry	Water Chemistry	3	5	Written exam
	Optional Courses		15	2 exams or colloq.
	Total		30	5 Exams
2nd Semester				
Applied Analytical Chemistry	Applied Analytical Chemistry	3	5	Written exam
Applied Microbiology	Hygiene	2	3	Written exam for the module
Applied Microbiology	Geomicrobiology	2	3	
Environmental Microbiology	Practical Course Environmental Microbiology	9	7	
	Optional Courses		12	2 exams or colloq.
	Total		30	4 Exams
3rd Semester				
Biofouling, Biocorrosion	Biofouling, Biocorrosion	3	5	Written exam
Practical Analytical Chemistry	Practical Course Analytical Chemistry	15	10	
Research Practical	Research Practical Course	15	10	
	Optional Courses		5	1 exam or colloq.
	Total		30	2 Exams
4th Semester				
Master Thesis	Master Thesis		30	Written thesis
	Total		30	1 Exam
	Overall Total		120	12 Exams

