

Study Programme

Academic year 2024-2025

Programme jointly offered by Ghent University, Norwegian University of Science and Technology, Wageningen University, Autonomous University of Barcelona, University of Barcelona

International Master of Science in Health Management in Aquaculture

Language of instruction: English

Programme version 3

1 0	Senera	I Courses			30 (credits
Nr (Course		CRDT Ref	MT1	Session	Study
	003023	Basic Principles in Aquaculture Techniques Annelies Declercq Department of Animal Sciences and Aquatic Ecology	4	1	A:1	120
2 1	002796	Diseases in Aquaculture Annelies Declercq Department of Animal Sciences and Aquatic Ecology	6	1	A:1	180
- 10	002084	Viral Disease Management Hans Nauwynck Department of Translational Physiology, Infectiology and Public Health	3	1	A:1	90
- 10	002797	Fish and Shellfish Immunology Daisy Vanrompay Department of Animal Sciences and Aquatic Ecology	4	1	A:1	120
	002086	Aquatic Microbial Community Management Tom Defoirdt Department of Biotechnology	1	A:1	75	
1	003027	Aquaculture Genetics Annelies Declercq Department of Animal Sciences and Aquatic Ecology	5	1	A:1	150
i l	002756	Applied Statistics Louis Coussement Department of Data Analysis and Mathematical Modelling	5	1	A:1	150
2 (Genera	l Courses			60 (credite
Phy he c Depe	siology an chosen lea ending on t	rrning track determines the mobility path. the mobility path chosen, students will additionally enrol at the host universi	ity per semester or	per academic	year they	
		programme taught by this university. stems and Health			60	credit
Stude progr	ents taking amme. Th	the learning track Ecosystems & Health additionally enrol at NTNU in both bey reside in Trondheim, Norway throughout the second and third semester in this module are mandatory. aken up in the first year master (MT1 = 1); 22,5 ECTS in the second year m		ird semester o		oround
	Course		CRDT Ref	MT1	Session	Study
I	002858	Fish Welfare and Health Norwegian University of Science and Technology, Grete Kristine Følsvik Hansen Aas	7.5	1	A:2	200
	002859	Recirculating Aquaculture Systems RAS Norwegian University of Science and Technology, Kari Johanne Kihle Attramadal	7.5	1	A:2	200
l	002860	Expert in Teams Norwegian University of Science and Technology, Karl Klingsheim	7.5	1	A:2	200
l	002927	Environmental Biotechnology Norwegian University of Science and Technology, Ingrid Bakke	7.5	1	A:2	200

7.5

2

A:1

5

1002862 Aquaculture in the Ecosystem

Norwegian University of Science and Technology, Kjell Inge Reitan

200

6	1002865	AquaHealth Club Norwegian University of Science and Technology, Bengt Finstad	7.5	2	A:1	200
7	1002866	Internship Project Norwegian University of Science and Technology, Kjell Inge Reitan	7.5	2	A:1	200
2	.1.1 Electi		7.5	credits		
Subscribe to 7,5 credit units from the following list in the second year master (MT1 = 2). Subject to approval by the faculty.						
			CRDT		Session	Study
1	1002863	Laboratory Animal Science for Researchers Norwegian University of Science and Technology, Anna Solvang Båtnes	7.5	2	A:1	200
2	1002864	Environmental Assessment Methods and Quality of Coastal Water Norwegian University of Science and Technology, Yngvar Olsen	7.5	2	A:1	200
2.2 Disease Prevention Management and Health 60 c					credits	

ase Prevention Management and Health

Students taking the learning track Disease Prevention Management & Health additionally enrol at WU in the second semester of the study programme. During the second semester they reside in Wageningen, The Netherlands, in the third semester where the internship is taken.

All course units in this module are mandatory.

24 ECTS are taken up in the first year master (MT1 = 1); 30 ECTS in the second year master (MT1 = 2). 1002868 Nutrition and Health in Aquaculture 6 A:2 168 1 1 Wageningen University, Johan W Schrama 2 1002869 Frontiers in Animal Health 6 1 A:2 168 Wageningen University. Maria Forlenza 3 1002870 Academic Consultancy Training and MOS Modules 12 1 A:2 336 Wageningen University, Camilla Kaempegaard 1002929 2 600 Internship Comprehensive Project 24 A:1 Δ Annelies Declercg -- Department of Animal Sciences and Aquatic Ecology 1002928 2 A:1 180 5 AquaHealth Club 6 Annelies Declercg -- Department of Animal Sciences and Aquatic Ecology

2.2.1 Elective Courses

Subscribe to no less than 6 and no more than 9 credit units from the following list in the first year master (MT1 = 1). Subject to approval by the faculty.

Students that need to take the course 'Laboratory Animal Science: Design and Ethics in Animal Experiments' in order to be allowed to handle laboratory animals in the framework of the thesis at WU will subscribe to 9 credit units and accumulate 33 credit units in semester 2 and hence 123 credit units in the complete curriculum.

N	Course		CRDT Re	ef MT1	Session	Study
1	1002871	Sustainability in Fish and Seafood Production Wageningen University, Geertje LH Schlaman	6	1	A:2	168
2	1002873	Laboratory Animal Science: Design and Ethics in Animal Experiments Wageningen University, Ellen Kranenbarg-Stolte	3	1	A:2	84
3	1002874	Short Research Projects in Biology Wageningen University, Leo AJ Nagelkerke	6	1	A:2	168

2.3 Physiology and Health

Students taking the learning track Physiology & Health additionally enrol at UAB in both the second and third semester of the study programme. They reside in Barcelona, Spain throughout the second and third semester. All course units in this module are mandatory.

28,5 ECTS are taken up in the first year master (MT1 = 1); 31,5 ECTS in the second year master (MT1 = 2) 1002875 A:2 1 Fish Laboratory Course 2 1 50 Universitat de Barcelona, Joaquim Gutiérrez Fruitos -- University of Barcelona 1002876 2 A:2 2 Fish Health Laboratory Course 1 50 Universitat Autónoma de Barcelona, Nerea Roher Armentia -- Autonomous University of Barcelona 1002877 **Basic Marine Aquaculture Facility Management** 2 A:2 50 3 1 Universitat Politècnica de Catalunya • BarcelonaTech, Maria Lourdes Reig Puig 1002931 Internship Comprehensive Project 22.5 1 A:2 600 4 Universitat Autónoma de Barcelona, Maria Constenla Matalobos -- Autonomous University of Barcelona 1002878 Production and Health Management in Aquaculture Facilities 8 2 A:1 200 5 Universitat Politècnica de Catalunya • BarcelonaTech, Ingrid Masaló Llora 1002879 Stress, Pathology, Immune Response, and Environmental Health 8 2 A:1 200 6 Universitat Autónoma de Barcelona, Maria Constenla Matalobos -- Autonomous University of Barcelona

6 credits

60 credits

7 1002880	Physiology of Aquaculture Species Universitat de Barcelona, Isabel Navarro University of Barcelona	8	2	A:1	200
8 1002930	AquaHealth Club Universitat Autónoma de Barcelona, Maria Constenla Matalobos Autonomous Univer	7.5 sity of Barcelona	2	A:1	200
3 Master	's Dissertation			30 (credits
universities. St Exception: For	nester of the study programme consists of the master's dissertation, tudents additionally enrol at that university. r students having chosen the track Disease Prevention Management ervision of WU.				
located, or at t master's disse	rth semester, students reside where the consortium partner universit he location of the associated university, research institution or NGO rtation.	where they carry out the ex	perimental wo	ork for the	
Nr Course		CRDT Ref	MT1	Session	Study
1 1002881	Master's Dissertation Annelies Declercg Department of Animal Sciences and Aquatic Ecology	30	2	A:2	900

Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the cours name, using the following ISO codes:

bg: Bulgarian cs: Czech	el: Greek	es: Spanish fr: French	ja: Japanese nl: Dutch	pl: Polish pt: Portuguese	sh: Kroatian/Serbian sl: Slovene	zh: Chinese
da: Danish	en: English	it: Italian	no: Norwegian	ru: Russian	sv: Swedish	

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned. When a semester is shown in brackets, the course in not offered this year in the specific offering. The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually	c: annually, from 2025-2026
b: tri-annually	d: bi-annually, from 2025-2026
	e: tri-annually, from 2025-2026

f: annually, from 2026-2027 g: bi-annually, from 2026-2027 h: tri-annually, from 2026-2027 i: annually, from 2027-2028 j: bi-annually, from 2027-2028 k: tri-annually, from 2027-2028