Fakultet for biovitenskap

Master in Aquaculture (M-AA)

Admissions 2021

Master in Aquaculture (M-AA)

A master's degree is awarded on 120 credits. Equivalent of two years full study. Students who lack knowledge about general aquaculture from their bachelor's degree are recommended to take AQX251 in the master's degree. To obtain a master's degree in Aquaculture, the following is required:

- Minimum 30 credits courses at 300-level
- Compulsory courses at 300-level
- Optional courses at 200 or 300 level
- A compulsory thesis of 60 or 30 credits

Compulsory courses:

Code	Name	ECTS	Period
BIO314	Fish physiology	5	Autumn
AQX300	Applied Aquaculture	10	Spring

Master thesis 60 ECTS or
Master thesis 30 ECTS + Internship Aquaculture (BINT302) and/or other optional courses

Study plan examples

Year	Semester	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS	5 ECTS
2	June						
	Spring	Master thesis					
	January						
	Autumn	Master thesis or courses if 30 ECTS thesis					
	August						
1	June						
	Spring	AQX300					
	January						
	Autumn	BIO314					
	August						

Optional courses from the three specializations area:

- **Production Biology**
  - Select courses in nutrition/feeding, genomics/breeding and welfare/behavior
- **Management and Farming Technology**
  - Select courses in economy, management, leadership and farming technology (RAS)
- **Feed Technology**
  - Selected courses in nutrition and feed technology

Production biology

Code	Name	ECTS	Period
AQB270	Aquaculture breeding and genetics	5	Spring
AQN350	Aquaculture Nutrition	10	Autumn
AQN351	Sustainable ingredients in aquafeeds	5	Autumn
BIN300	Statistical Genomics	10	Spring
BIN301	Genomic and pedigree-based prediction of genetic value	10	Autumn
BIN302	High throughput phenotyping for precision farming	10	Autumn
BIO315	Behavioral biology in fishes	5	Spring
BIO322	Molecular Genomics	10	Autumn
HFA300	Animal Breeding Plans*	10	Spring
HFA304	Theory and Application of Inbreeding Management*	10	June + August
HFE303	Nutrition and Optimisation of Diets for Monogastric Animals	10	Autumn
HFE314	Experimental animal nutrition and physiology	10	Spring

* Prerequisites HFA200

Management and Farming Technology

Code	Name	ECTS	Period
AQP211	Production technology in aquaculture	10	January + Spring
AQT251	Laboratory course in international aquaculture	5	Autumn
AQT254	Basic Aquaculture Engineering	5	Autumn
AQP350	Planning and Design of Intensive Fish Farms	10	Spring
ECN230	International Economics	10	Autumn
	Special syllabus	10	All

Feed Technology

Code	Name	ECTS	Period
HFE303	Nutrition and Optimisation of Diets for Monogastric Animals	10	Autumn
HFE305	Feed Manufacturing Technology	10	Aug + Autumn
HFE306	Advanced Feed Manufacturing Technology	5	January
HFE308	Optimalization of Feed Processing for Different Animal Species	10	Spring
HFE310	Management of Production, Risk and Innovation in Feed Production	10	Spring
HFE314	Experimental animal nutrition and physiology	10	Spring

General courses for all specializations

Code	Name	ECTS	Period
BINT302	Internship Aquaculture	5-15	All
FMI309	Environmental Pollutants and Ecotoxicology	10	January + Spring
MTH300	E-learning Course: Planning and Scientific Writing of a Master's Thesis in Natural Sciences	5	Autumn
NATF240	Fishery Management (Norwegian)	10	Spring
SDG300	Sustainable development goals in plant and animal food systems	5	January