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**Fakultet for biovitenskap**



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**Master in Animal Science (M-AS)**  
**Master i Husdyrvitenskap (M-HV)**

**Opptak/Admission 2021**

## Master in Animal Science/Master i husdyrvitenskap

A master's degree is awarded on 120 credits. Equivalent of two years full study. Three areas of specialization are offered: Animal Breeding, Animal Ethology and Animal Nutrition.

### The following requirements must be fulfilled:

- A compulsory thesis of 30 or 60 credits
- Compulsory course STAT210 (Design of Experiments and Analysis of Variance, 5 ECTS)
- Minimum 50 ECTS in Animal Science courses, where minimum 35 ECTS must be at 300-level, at least 25 of these must be within the area of specialization.
- Additional courses at 300 (or 200) level (Up to 40 credits).

Relevant courses for all fields of specialization			
Code	Name	ECTS	When
<a href="#">BIN302</a>	High throughput phenotyping for precision farming	10	Autumn
<a href="#">BINT301</a> *	Internship	5/10/15	All year
<a href="#">HFX315</a> *	Smart Livestock Production	10	Autumn
<a href="#">SDG300</a> *	<b>Sustainable development goals in plant and animal ..</b>	<b>5</b>	<b>January</b>
<a href="#">SDG301</a> <sup>1)</sup>	Klimakalkulatorer for plante- og husdyrproduksjoner	5	Spring

1) Given in Norwegian in 2021/2022

Specialization – Animal Breeding and Genetics			
Code	Name	ECTS	When
<a href="#">BIN300</a>	Statistical Genomics	10	Spring
<a href="#">BIN301</a> *	<b>Genomic and pedigree-base prediction of genetic value</b>	<b>10</b>	<b>Autumn</b>
<a href="#">BIN310</a>	Selected Topics in Genome Analysis	10	Autumn
<a href="#">BIO321</a>	Population Genetics and Molecular Evolution	10	Autumn
<a href="#">BIO322</a>	Molecular Genomics	10	Autumn
<a href="#">HFA300</a> *	<b>Animal Breeding Plans</b>	<b>10</b>	<b>Spring</b>
<a href="#">HFA303</a> *	Biological Aspects of Animal Breeding	5	Autumn
<a href="#">HFA304</a>	Theory and Application of Inbreeding Management	10	June+August
<a href="#">HFA304-B</a>	Theory and Application of Inbreeding Management	5	June
Specialization – Animal Ethology and Welfare			
Code	Name	ECTS	When
<a href="#">HET300</a>	<b>Scientific Methods in Ethology</b>	<b>10</b>	<b>Autumn</b>
<a href="#">HET301</a>	<b>The Biology of Animal Stress and Its Implications for ...</b>	<b>10</b>	<b>Spring</b>
<a href="#">ZOO310</a>	Behavioural and Population Ecology	10	Autumn
Specialization – Animal Nutrition and Physiologi			
Code	Name	ECTS	When
<a href="#">HFE302</a> *	<b>Nutrition and Diet Optimisation in Ruminants</b>	<b>15</b>	<b>June+Autumn</b>
<a href="#">HFE303</a> *	<b>Nutrition and Optimisation of Diets for Monogastric ..</b>	<b>5</b>	<b>Autumn</b>
<a href="#">HFE305</a>	<b>Feed Manufacturing Technology</b>	<b>10</b>	<b>Aug+ Autumn</b>
<a href="#">HFE306</a>	Advanced Feed Manufacturing Technology	5	Januar
<a href="#">HFE308</a>	Optimization of Feed Processing for Different Animal ...	10	Spring
<a href="#">HFE310</a>	Management of Production, Risk and Innovation in Feed ...	10	Spring
<a href="#">HFE314</a> *	<b>Experimental animal nutrition and physiology</b>	<b>10</b>	<b>Spring</b>
<a href="#">HFX306</a> *	<b>Feeding and Production Diseases in Cattle</b>	<b>5</b>	<b>January</b>

\*Courses that can be included in “Sivilagronom Husdyr” but are available for all students.

Courses **highlighted in bold** are recommended within each area of specialization

## **Sivilagronom Husdyr**

(additional information, relevant for Norwegian students only)

Vil du ha et utdanningsløp som gir tittelen «Sivilagronom husdyr» i tillegg til mastergrad i husdyrvitenskap, som gjør deg spesialisert for norsk husdyrnæring? Da kan du velge en utdanningspakke basert på definerte emnekombinasjoner innen bachelor- og masterprogrammene i husdyrvitenskap som allerede finnes ved NMBU.

For å oppnå tittelen Sivilagronom Husdyr må du ta 60 studiepoeng innen utvalgte emner innen husdyrfysiologi, avl, genetikk, ernæring, fôring og etologi. Emner som kan inngå i Sivilagronom Husdyr er merket med stjerne\* i studieplanene for bachelor og master i husdyrvitenskap.

Du søker ikke spesielt på Sivilagronomstudiet. Du søker bachelor- og masterprogrammene i husdyrvitenskap. Graden får du tildelt dersom du har de nødvendige fag og fagkombinasjoner, som spesifiseres for en sivilagronom husdyr. Masteroppgaves innhold skal være rettet mot husdyrvitenskap.

Tittelen Sivilagronom Husdyr er et sterkt signal til arbeidsgiverne innen norsk landbruk om, at her er en kandidat som har en utdanningspakke over fem år som er direkte tilpasset næringenes behov. Tittelen inngår i vår utdanningsportefølje med det formål å utdanne kandidater med en kompetanse det er sterkt behov for i næringene.