



**Faculty of Biosciences**

# **Master of Science in Genome Science**

**(M-GS)**

**Admission 2024**

## Master of Science in Genome Science

- Master's degree is awarded on 120 credits (2 years full time study).
- 60 credits mandatory courses at 300-level, see below.
- Courses at 200 and 300 level are accepted in the master.
- Master thesis of 60 or 30 credits is mandatory. 60 credit thesis is recommended. A 30 credits thesis may be written if the student needs to accomplish courses lacking in his or her bachelor's degree.
- Note that it is possible to have up to 10 additional credits on your diploma (total 130 credits). If you wish to take elective courses/internship, we recommend that you do that in the spring parallel and/or June block of the first year. Elective courses may also be taken during the second year as long as it doesn't interfere with your thesis work.

### Study plan

		Cumulative credits					
Year	Period	5	10	15	20	25	30
2	June block	Master thesis					
	Spring parallel						
	January block						
	Autumn parallel	Master thesis/elective courses/internship/exchange					
	August block						
1	June block						
	Spring parallel	BIO325		BIO326			
	January block	STIN300					
	Autumn parallel	BIO322		BIN310* or BIN315**		BIO321	
	August block	BIO302					

\*Odd years

\*\*Even years

Code	Mandatory courses	Credits	Period
BIO302	Introduction to Master's Studies at BIOVIT	5	August block
BIO321	Population Genetics and Molecular Evolution	10	Autumn parallel
BIO322	Advance Topics in Genomics	10	Autumn parallel
BIN310 or BIN315	Selected topics in Microbial Genomics Selected topics in Functional Genomics	10 10	Autumn parallel <u>odd years</u> Autumn parallel <u>even years</u>
STIN300	Statistical Programming in R	5	January block
BIO325	CRISPR genome editing	10	Spring parallel
BIO326	Genome sequencing; tools and analysis	10	Spring parallel
M60-GS (M30-GS)	Master thesis A 60-credit thesis is recommended. A 30-credit thesis may be written if the student needs to accomplish courses lacking in the bachelor's degree.	60 (30)	Autumn + Spring (Spring) 2 <sup>nd</sup> year
<i>Total</i>		120 (90)	

Code	Recommended elective courses	Credits	Period
BIN300	Statistical Genomics	10	Spring parallel
BIO327	From Gene to Function in Plants	10	Autumn parallel
MTH300	Planning and Scientific Writing of a Master's Thesis in Natural Sciences	5	Autumn parallel
<b>Recommended elective courses if you lack similar courses in your bachelor's degree:</b>			
STAT200	Regression Analysis	5	January block
STAT210	Design of Experiments and Analysis of Variance	5	August block

NB! Always check the course catalogue for the latest updates.

**Course catalogue with course descriptions:**

<http://www.nmbu.no/courses/>

**Teaching and exam schedule:**

<https://www.nmbu.no/en/students/teaching-and-exam-schedule>

**Information about the master thesis and thesis proposals:**

<https://www.nmbu.no/en/faculties/faculty-biosciences/masters-student-biovit>

**Thesis proposals in the Genome Biology group / Cigene:**

<https://cigene.no/master-students/>

**Information about internship (counts as elective credits):**

<https://www.nmbu.no/en/faculties/faculty-biosciences/internship-biovit>