Faculty of Biosciences

Master in Plant Sciences

Specializations:

Plant Production and Plant Protection

Plant Biotechnology

Admission 2025

Master's in Plant Sciences

Master's in Plant Sciences is a 2 year fulltime study of 120 credits/ECTS. The program has two specializations in English:

- Plant Production and Plant Protection
- Plant Biotechnology

For both specializations, the following applies:

- BIO302 – Introduction course for Master students at BIOVIT (5 credits, August block)
- Compulsory courses in each specialization
- Compulsory master's thesis of 30 or 60 credits
- Minimum 30 credits at 300-level
- The remaining credits are elective
    - Elective courses may be at 200- and 300-level
- It is highly recommended that students without any courses in statistics from their bachelor's degree, attend at least one of: STAT210 or STAT220

All course codes may be looked up in the course catalogue: https://www.nmbu.no/courses

Specialization: Plant Production and Plant Protection

Year	Semester	5	10	15	20	25	30
2	June bl.						
	Spring p.	Master thesis 30/60 credits					
	January bl.						
	Autumn p.	Specialization courses or master thesis 60 credits					
	August bl.	*					
1	June bl.	*					
	Spring p.	Specialization courses or elective courses					
	January bl.						
	Autumn p.	Specialization courses or elective courses					
	August bl.	BIO302					

*It may be necessary to start field work/lab for the Master's Thesis in the Spring of the first year of study

Compulsory specialization courses:

Choose minimum 30 credits from the list below:

Code	Name	Credits	Offered 2025/26	Offered 2026/27
PJH341	Postharvest - Storage of fruit and vegetables	10	Autumn p.	Autumn p.
PLV321	Plant Pathology and Resistance Breeding	10	Autumn p.	-
PLV330	Insect-Plant Relationships	5	Spring p.	-
PLV340	Weed Biology and Weed-Crop Relationships	5	-	Spring p.
BIO324	Plant Adaptation	10	Spring p.	Spring p.
PJH360	Term paper in Plant Production	5	Every term	Every term
JORD330	Soil Health and Sustainable Soil Management	10	Autumn p.	Autumn p.

Compulsory: Master thesis

M30-PV / M60-PV	Master thesis	30 or 60 credits

Recommended courses if you do not have similar courses in your bachelor's degree:

Code	Name	Credits	Semester	Offered
PJH212	Forage and Seed Crops	10	Autumn	Annually
PJH250	Plant production in controlled environment	10	Spring	Odd years
BOT200	Plant Physiology	10	Autumn	Annually
BOT201	Physiology of Plant Production	5	Spring	Annually

Specialization Plant Biotechnology

Year	Semester	5	10	15	20	25	30
2	June bl.						
	Spring p.	Master thesis 30/60 credits					
	January bl.						
	Autumn p.	Specialization courses or master thesis 60 credits					
	August bl.	*					
1	June bl.	*					
	Spring p.	Specialization courses or elective courses					
	January bl.						
	Autumn p.	Specialization courses or elective courses					
	August bl.	BIO302					

*It may be necessary to start field work/lab for the Master's Thesis in the Spring of the first year of study

Compulsory specialization courses:

Choose minimum 30 credits from the list below:

Code	Name	Credits	Semester	Offered
BIO321	Population Genetics and Molecular Evolution	10	Autumn p.	Annually
BIO327	From Gene to Function	10	Autumn p.	Annually
BOT345	Plant Photobiology	10	Autumn p.	Annually
BIO300	Microscopy Techniques	10	Jan., Spring p.	Annually
BIO324	Plant Adaptation	10	Spring p.	Annually
BIO325	CRISPR genome editing	10	Spring p.	Annually

Compulsory: Master thesis

M30-PV / M60-PV	Master thesis	30 or 60 credits

Recommended courses if you do not have similar courses in your bachelor's degree:

Code	Name	Credits	Semester	Offered
BIO244	Plant Biotechnology: Cell- and tissue culture and genetic modifications	5	Spring p.	Annually

Optional courses offered in English that may be relevant:

Code	Name	Semester	Credits
Biotechnology			
BIO244	Plant Biotechnology: Cell- and tissue culture and genetic modifications	Spring p.	5
BIO300	Microscopy Techniques	Jan. bl., Spring p.	10
BIO301	Advanced Cell Biology	Spring p.	10
BIO325	CRISPR genome editing	Spring p.	10
BIO326	Genome sequencing; tools and analysis	Spring p.	10
BIO336	Mycology	Autumn p.	5
Plants			
BINT300	Internship Plant Sciences	Every term	10
BOT200	Plant Physiology	Autumn p.	10
BOT201	Physiology of Plant Production	Spring p.	5
BOT345	Plant Photobiology	Autumn p.	10
PJH212	Forage and Seed Crops	Autumn p.	10
PJH250	Plant production in controlled environment	Spring p.	10
PJH251	Bedding Plant Production of Flowers and Vegetables in Greenhouses	Spring p.	5
Soil			
JORD330	Soil Health and Sustainable Soil Management	Autumn p.	10
Sustainability and agriculture			
EDS315	Governance of Plant Genetic Resources and Seed: Laws, Policies and Practices	June block	5
EDS352	Agroecology and Development	Spring p.	10
EDS355	Climate Change and Development	Autumn p.	10
SDG300	Sustainable development goals in plant and animal food systems	January block	5
Zoology and ecology			
ZOOL300	Insect ecology and research	Autumn p.	10
Statistics and programming			
BIN250	Quantitative Skills in Bioscience	Autumn p.	5
STAT200	Regression Analysis	January bl.	5
STAT210	Design of Experiments and Analysis of Variance	August bl.	5
STAT340	Applied Methods in Statistics	Spring p.	10
STIN370	Selected topics in bioinformatics and applied statistics	Spring p.	5
STIN300	Statistical programming in R	January bl.	5

Term paper			
BIO260	Term paper in Plant Sciences	Spring p.	5
Master thesis courses			
MINA310	Methods in Natural Sciences	Spring p.	5
MTH300	E-learning Course: Planning and Scientific Writing of a Master's Thesis in Natural Sciences	Autumn p.	5

Always check the course catalogue for up-to-date information on courses:

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

Time schedule will be available here:

https://www.nmbu.no/en/students