



Faculty of Biosciences

Department of Plant Sciences

Master in Plant Sciences

Specializations:
Plant Production Systems
Plant Biotechnology
Plant Protection

Admission 2020

Master in Plant Sciences

- Master's degree is awarded on 120 credits (2 years fulltime study)
- Minimum 30 credits at 300-level, see below
- Courses at 200 level are accepted in the master
- Master thesis of 30 or 60 credits is compulsory

Studyplan for the specialization: Plant Production Systems

Code	Course	Credits	Period
	Compulsory course, choose minimum 30 credits among:		
PJH300	Sustainable Production Systems	15	Aug, autumn (odd years)
PJH350	Applied Plant Physiology in Greenhouses	10	Autumn (odd year)
PJH340	Quality in Food Plants	10	Autumn (even years)
PLV321	Plant Pathology	10	Autumn (odd years)
PJH360	Term paper in Plant Production	5	Every term (annually)
BIO324	Plant Adaptation	10	Spring (annually)
PLV330	Insect-plant relationships	5	Spring (even years)
PLV340	Weed biology and weed-crop relationships	5	Spring (odd years)
	Optional courses from the Course Catalogue 200 or 300 level	30	
M30-PV/ M60-PV	Master thesis	30 or 60	

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

Code	Course	Credits	Period
BOT201	Physiology of Plant Production	5	Spring
PJH212	Forage and Seed Crops	10	Autumn
PJH230	Fruit and Berries (NO)	10	Autumn (odd years)
PJH250	Production in greenhouses	10	Spring (odd years)

Study plan for the specialization: Plant Biotechnology:

Code	Course	Credits	Period
	Compulsory course, choose minimum 30 credits among:		
BOT320	Advanced Course in Plant Developmental Physiology	10	Spring
BIO300	Microscopy Techniques	10	Jan, spring
BIO320	Development Biology	5	Spring (odd years)
BIO321	Population Genetics and Molecular Evolution	10	Autumn
BIO324	Plant Adaptation	10	Spring
BIO350	In Situ RNA Hybridization Techniques	5	January
BIO351	Genetically Modified Plants - Case Study	5	Autumn
	Optional courses from the Course Catalogue 200 or 300 level	30	
M60-PV/ (M30-PV)	Master thesis	60 (30)	

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

Code	Course	Credits	Period
BIO200	Molecular Genetics in Eukaryotes (NO)	5	January
BIO210	Molecular Biology (NO)	10	Autumn
BIO211	Laboratory Course in Molecular Biology (NO)	5	June
BIO244	Plant Biotechnology: Cell- and tissue culture and genetic modifications	5	Spring

Study plan for the specialization: Plant Protection

Code	Course	Credits	Period
	Compulsory: Choose one of the courses among:		
PLV321	Plant Pathology	10	Autumn (even years)
PLV330	Insect-plant relationships	5	Spring (even years)
PLV340	Weed biology and weed-crop relationships	5	Spring (odd years)
	Compulsory: Choose minimum 20 credits among:		
BIO300	Microscopy Techniques	10	Jan, spring
BIO324	Plant Adaptation	10	Spring
PJH300	Sustainable Production Systems	15	Aug, autumn (odd years)
PJH340	Quality in Food Plants	10	Autumn (even years)
PJH360	Term paper in Plant Production	5	Every term
ZOOL300	Ecological Entomology	10	Autumn
	Optional courses from the Course Catalogue 200 or 300 level	30	
M30-PV/ M60-PV	Master thesis	60 (30)	

Some other courses given at the Department of Plant Sciences:

Code	Name	Credits	Period)
BIO223	Population Genetics and Molecular Ecology	5	Spring
BIO244	Plant Biotechnology: Cell- and tissue culture and genetic modifications	5	Spring
BIO248	Plant Breeding	10	Spring
BIO300	Microscopy Techniques	10	Jan, Spring
BIO301	Advances Cell Biology	10	Spring
BOT200	Plant Physiology	10	Autumn
BOT201	Physiology of Plant Production	5	Spring
BOT320	Advanced Course in Plant Development Physiology	10	Spring
PJH212	Forage and Seed Crops	10	Autumn
PJH230	Fruit and Berries	10	Autumn (odd years)
PJH250	Production in greenhouses	10	Spring (odd years)
PJH251	Bedding Plant Production of Flowers and Vegetables in Greenhouses	5	Spring

Other current courses at NMBU:

Code	Name	Credits	Period
BIO233	Experimental Environmental Microbiology	10	Spring
BIO332	Experimental Molecular Microbiology	10	Jan, Spring
BIO336	Mycology	5	Autumn
BOT340	Photobiology	10	Autumn
ECOL200	General Ecology	10	Spring
ECOL300	Methods in Natural Resources	5	Spring
EDS260	Global Environmental Changes	5	Autumn
EDS315	Management of Genetic Resources; Law and Policy	5	June
EDS352	Agroecology and Development	10	Spring
EDS355	Climate Change and Development	10	Autumn
FMI309	Environmental Pollutants and Ecotoxicology	10	Jan, Spring
FMI312	Environmental Exposures and Human Health	10	Autumn
JORD200	Soils in natural environments – field and laboratory course	10	Aug, Autumn
JORD210	Soil: Classification, process modelling and application of GIS	10	Spring
SDG300	Sustainable development goals in plant and animal food systems	5	Jan
STAT200	Regression Analysis	5	Jan
STAT210	Design of Experiments and Analysis of Variance	5	Aug
STAT340	Applied methods in statistics	10	Spring
STAT370	Selected topics in statistics	5	Spring
STIN300	Statistical programming in R	5	Jan

Other courses:

<http://www.nmbu.no/courses/> (Always check the Course catalogue.)

Time schedule fall will be available here:

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