Appendix 1, Programme Syllabus for Plant Biology – Master's Programme

Possibility for further studies

A student who has completed the Plant Biology – Master's programme and been awarded the qualification fulfils the specific entry requirements for third-cycle studies at the Faculty of Natural Resources and Agricultural Sciences in any of the subjects

- Biology
- Crop Production Science

The specific entry requirements are based on both first and second-cycle studies. Detailed requirements for each third-cycle subject area are shown in the respective study plan for the third cycle, see link

 $\underline{https://internt.slu.se/en/research-education-ema/phd-education/responsible-committees-and-director-of-studies/postgraduate-subjects/postgraduate-subjects-at-the-nl-faculty/$

This appendix to the programme syllabus was approved by the study programmes board on 12 November 2007 and is valid as of the 2007/08 academic year. (reg. no. SLU ua 30-1556/07).

Appendix 2, Programme Syllabus for Plant Biology – Master's Programme

Study plan for Plant Biology – Master's Programme

Programme structure for students admitted in autumn 2009

Year	Period 1	Period 2	Period 3	Period 4
1	BI1044	BI1046 Plant	BI1002 Plant-	BI1007
2009/10	Plant pathology, 15	biodiversity and	microbe	Biology and
	credits	breeding, 15 credits	interactions, 10	production of
	Inkl. introduktion		credits	agricultural plants,
			BI0882 Ecological	10 credits
			Microbiology, 5	BI1001 Plant
			credits	physiology,
				5 credits
2	Optional course, 15	Optional course, 15	EX0565 Independent project in Biology –	
2010/11	credits	credits	Master's thesis, 30 credits	

Specialisation Plant Production Biology

Specialisation Plant Pathology (NorPath)

	Sommer	Period 1	Period 2	Period 3	Period 4
Åk 1	BI0928	BI1044	BI1046 Plant	BI1002 Plant-	BI Plant disease
2009/10	Plant	Plant pathology, 15	biodiversity and	microbe	epidemiology and
	pathology	credits	breeding, 15 credits	interactions, 10	disease management,
	in a	Inclusive	eller	credits	10 credits
	changing	Introduction	BI0933 Ecological	BI0882 Ecological	BI0870 Diseases and
	world, 5		methods, 15 credits	Microbiology, 5	pests of forest trees,
	credits			credits	5 credits
Åk 2		BI0874 Ecology	Optional course, 15	EX0565 Independent project in Biology –	
2010/11		and management of	credits	Master's thesis, 30 credits	
		diseases and pests			
		of forest trees, 15			
		credits			
		or			
		optional, 15 credits			

Note: The programme structure consists of courses corresponding to 125 credits, but the degree may only comprise of 120 credits.

Specialisation Experimental Plant Biology

Year	Period 1	Period 2	Period 3	Period 4
1	Plant growth and	BI1046 Plant	Molecular plant-	Plants in the
2009/10	development, 15	biodiversity and	microbe	environment,
	credits	breeding, 15 credits	interactions, 15	15 credits
	(Uppsala university)		credits (Stockholm	(Södertörn
			university)	university
2	Optional course, 15	Optional course, 15	EX0565 Independent project in Biology –	
2010/11	credits	credits	Master's thesis, 30 credits	

Alternative for year 2

	Period 1	Period 2	Period 3	Period 4
Alter-	BI1083 Ecological	BI1084 Ecological	EX0565 Independent project/degree	
native	concepts, 10 credits	methods, 15 credits	project in Biology (A2E), 30 credits	
1	MV0162 Soils of			
1	the world, 5 credits			
Alter-	BI0962 Genome	BI0961 Bio-	EX0565 Independent project in Biology –	
native	analysis, 10 credits	informatics, 10	Master's thesis, 30 cr	edits
11401 / 0		credits		
2	BI0966 GMO and lab animal science, 10			
	credits			
Alter-	BI0874 Ecology	BI1084 Ecological	EX0565 Independent	project in Biology -
native	and management of	methods, 15 credits	Master's thesis, 30 cr	edits
3	diseases and pests of			
3	forest trees, 15 credits			

In order for the degree certificate to state that the programme was completed according to the programme syllabus for the Plant Biology – Master's Programme, specialisation Plant Production Biology, the following requirements must be met:

Compulsory courses:

- Biology and production of agricultural plants, 10 credits (BI1007)
- Ecological microbiology, 5 credits (BI0882)
- Plant biodiversity and breeding, 15 credits (BI1046)
- Plant microbe-interactions, 10 credits (BI1002)
- Plant pathology, 15 credits (BI1044)
- Plant physiology, 5 credits (BI1001)

Approved independent project (degree project) of 30 credits in biology with specialisation in plant biology.

In order for the degree certificate to state that the programme was completed according to the programme syllabus for the Plant Biology – Master's Programme, specialisation Experimental Plant Biology, the following requirements must be met:

- Compulsory courses:
- Plant growth and development, 15 credits (Uppsala university)
- Plant biodiversity and breeding, 15 credits (BI1000)
- Molecular plant-microbe interactions, 15 credits (Stockholm university)
- Plants in the environment, 15 credits (Södertörn university)

Approved independent project (degree project) of 30 credits in biology with specialisation in plant biology.

In order for the degree certificate to state that the programme was completed according to the programme syllabus for the Plant Biology – Master's Programme, specialisation plant pathology (NorPath), the following requirements must be met:

Approved programme courses of at least 60 credits of the following courses of which 40 credits must be courses in plant pathology

Courses in plant pathology:

- Plant pathology in a changing world, 5 credits (BI0928) NOVA-course Compulsory
- Plant pathology, 15 credits (BI1044) Compulsory
- Plant-microbe interactions, 10 credits (BI1002) NOVA-course
- Plant disease epidemiology and disease management, 10 credits (BI----) NOVA-course
- Diseases and pests of forest trees, 5 credits (BI0870)
- Ecology and management of diseases and pests of forest trees, 15 credits (BI0874)
- NorPath-courses in plant pathology at participating universities (not overlapping with the courses above).

Other programme courses:

- Plant biodiversity and breeding, 15 credits (BI1046)
- Ecological methods, 15 credits (BI0933)
- Ecological microbiology, 5 credits (BI0882)
- NorPath-kurser at participating universities (not overlapping with the above)

Approved independent project (degree project) of 30 credits in biology with specialisation in plant biology. The independent project carries out with supervisors from two of the partner universities within NorPath.

Optional course within the three specialisations may be, for example

- Any of the courses above
- Agricultural cropping systems, 5 credits (BI1100)
- Applied population biology, 15 credits (BI1082)
- Bioinformatics, 10 credits (BI0961)
- Ecological concepts, 10 credits (BI1083)
- Genetically modified organisms and lab animal science, 10 credits (BI0996)
- Genome analysis, 10 credits (BI0962)
- Global crop production, 5 credits (BI0880)
- Molecular ecology, 10 credits (BI1096)
- Soil and water chemistry, 10 credits (MV0186)
- Soil biology, 5 credits (BI0883)
- Soils of the world, 5 credits (MV0162)

This appendix to the programme syllabus was approved by the study programmes board on 11 Eecember 2008 and is valid as of the 2009/10 academic year (reg.no. SLU ua 30-3483/08). Revised 2009-12-09.

Appendix 3, Programme Syllabus for Plant Biology – Master's Programme

Instructions for independent projects

All independent projects (degree projects) must follow the joint guidelines that apply for independent work at SLU (REB 2008-06-02, reg.no SLU ua 30-1972/08). This means that they are to be managed under the same routines and remits as other higher education. Independent projects are tied to a syllabus and the guidelines state that for projects comprising 15 credits or more, the syllabus must specify that they are to be published in Epsilon and examined for plagiarism in Urkund. In exceptional cases publication may be delayed; if so this must be stated in the student's individual work plan. The individual work plan is to serve as a supplement to the curriculum and must specify how the independent project will fulfil the intended learning outcomes related to the degree. The supervisor and the examiner may not be the same person, and the same guidelines apply for independent project examiners as for examiners on other courses (REB 2009-12-14, reg.no. SLU ua 30-3666/09).

Agreements with external clients are handled in a separate contract between SLU and the client. In cases where students have an external supervisor there must also be a principal supervisor at SLU who is responsible for ensuring that the project is carried out in accordance with SLU's guidelines and the current syllabus.

In addition to the general instructions that apply for all programmes and to the instructions in the syllabus for independent projects in Biology (Independent project in Biology – Master's thesis) an independent project on the Plant Biology – Master's Programme must be related to the intended learning outcomes specified in the programme syllabus.

This appendix to the programme syllabus was approved by the study programmes board on 24 April 2008 and is valid as of the 2007/08 academic year. (Reg. no. SLU ua 30-1556/07).